

PISA 2015 Results

POLICIES AND PRACTICES FOR SUCCESSFUL SCHOOLS VOLUME II





PISA 2015 Results (Volume II)

POLICIES AND PRACTICES FOR SUCCESSFUL SCHOOLS



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Equipping citizens with the knowledge and skills necessary to achieve their full potential, contribute to an increasingly interconnected world, and ultimately convert better skills into better lives is a central preoccupation of policy makers around the world. Results from the OECD's Survey of Adult Skills show that highly skilled adults are not only twice as likely to be employed and almost three times more likely to earn an above-median salary than poorly skilled adults, they are also more likely to volunteer, to report that they are in good to excellent health, to see themselves as actors rather than as objects of political processes, and to trust others. Fairness, integrity and inclusiveness in public policy thus all hinge on the skills of citizens.

In working to achieve these goals, more and more countries are looking beyond their own borders for evidence of the most successful and efficient education policies and practices. Over the past decade, the OECD Programme for International Student Assessment, PISA, has become the world's premier yardstick for evaluating the quality, equity and efficiency of school systems. But the evidence base that PISA has produced goes well beyond statistical benchmarking. By identifying the characteristics of high-performing education systems, PISA allows governments and educators to identify effective policies that they can then adapt to their local contexts.

The latest PISA assessment in 2015 focused on science, a discipline that plays an increasing role in our economic and social lives. From taking a painkiller to determining what is a "balanced" meal, from drinking pasteurised milk to deciding whether or not to buy a hybrid car, science is pervasive. And science is not just test tubes and the periodic table; it is the basis of nearly every tool we use – from a simple can opener to the most advanced space explorer. More important, science is not only the domain of scientists. In the context of massive information flows and rapid change, everyone now needs to be able to "think like a scientist": to be able to weigh evidence and come to a conclusion; to understand that scientific "truth" may change over time, as new discoveries are made, and as humans develop a greater understanding of natural forces and of technology's capacities and limitations.

The last time science was the focus of PISA was in 2006. Since then, science and technology have advanced tremendously. The smartphone was invented and became ubiquitous. Social media, cloud-based services, robotics and machine learning have transformed our economic and social life. New possibilities of gene sequencing and genome editing, synthetic biology, bio-printing or regenerative medicine and brain interfaces are changing life itself. Against this backdrop, and the fact that expenditure per primary and secondary student rose by almost 20% across OECD countries over this period, it is disappointing that, for the majority of countries with comparable data, science performance in PISA remained virtually unchanged since 2006. In fact, only a dozen countries showed measurable improvement in the science performance of their 15-year-olds, including high-performing education systems, such as Singapore and Macao (China), and low-performing ones, such as Peru and Colombia.

It is also worrying to see how many young people fail to reach even the most essential learning outcomes. In September 2015, world leaders gathered in New York to set ambitious goals for the future of the global community. Goal 4 of the Sustainable Development Goals seeks to ensure "inclusive and equitable quality education and promote



lifelong learning opportunities for all". This includes that "all learners acquire the knowledge and skills needed to promote sustainable development" (Target 4.7). Only in Canada, Estonia, Finland, Hong Kong (China), Japan, Macao (China) and Singapore do at least nine out of ten 15-year-old students master the baseline level of proficiency in science, reading and mathematics. These countries show that there are countries on nearly every continent that could achieve the goal of universal basic skills by 2030. At the same time, the small group of countries that has moved close to securing at least basic skills for all shows how much remains to be done in most countries – including some of the wealthiest OECD countries – to attain the Sustainable Development Goals.

The data also show that the world is no longer divided between rich and well-educated nations and poor and badly educated ones: the 10% most disadvantaged students in Viet Nam compare favourably to the average student in the OECD area. Clearly, all countries and economies have excellent students, but few have enabled all students to excel. Achieving greater equity in education is not only a social justice imperative, it is also a way to use resources more effectively, increase the supply of skills that fuel economic growth, and promote social cohesion.

PISA also finds varying levels of engagement with science and expectations of science-related careers across students who are similarly capable and interested in science. In a majority of countries and economies, students from advantaged backgrounds are more likely to expect a career in science – even among students who perform similarly in science and who reported similar enjoyment of learning science.

Similarly, while it is encouraging that boys and girls now show similar levels of science performance in PISA, large gender differences remain in students' dispositions towards science-related careers, even among students who score similarly in science and who report similar levels of enjoyment in learning science. In Germany, Hungary and Sweden, for instance, top-performing boys are significantly more likely than top-performing girls to expect a career requiring further training in science. These findings have serious implications not only for higher education, where young women are already under-represented in the science, technology, engineering and mathematics fields of study, but also later on, when these young women enter the labour market.

Gender stereotypes about scientists and about work in science-related occupations can discourage some students from engaging further with science. Schools can counter these stereotypes, and help both boys and girls cultivate a wider perspective on science, including through better career information. Employers and educators in perceived "masculine" or "feminine" fields can also help eliminate existing stereotypes by underscoring the close inter-relationships among the numerous fields of science.

The subject of science itself suffers from a stereotyped image. Too often, school science is seen as the first segment of a (leaky) pipeline that will ultimately select those who will work as scientists and engineers. Not only does the "pipeline" metaphor discount the many pathways successful scientists have travelled to reach their career goals, it also conveys a negative image of those who do not end up as scientists and engineers. Because knowledge and understanding of science is useful well beyond the work of scientists and is, as PISA argues, necessary for full participation in a world shaped by science-based technology, school science should be promoted more positively – perhaps as a "springboard" to new sources of interest and enjoyment. Expanding students' awareness about the utility of science beyond teaching and research occupations can help build a more inclusive view of science, from which fewer students feel excluded.

PISA is not only an accurate indicator of students' abilities to participate fully in society after compulsory school, but also a powerful tool that countries and economies can use to fine-tune their education policies. There is no single combination of policies and practices that will work for everyone, everywhere. Every country has room for improvement, even the top performers. That's why the OECD produces this triennial report on the state of education across the globe: to share evidence of the best policies and practices and to offer our timely and targeted support to help countries provide the best education possible for all of their students. With high levels of youth unemployment, rising inequality, a significant gender gap, and an urgent need to boost inclusive growth in many countries, we have no time to lose. The OECD stands ready to support policy makers in this challenging and crucial endeavour.

Angel Gurría
OECD Secretary-General



This report is the product of a collaborative effort between the countries participating in PISA, the national and international experts and institutions working within the framework of the PISA Consortium, and the OECD Secretariat.

The development of this volume was guided by Andreas Schleicher and Yuri Belfali and managed by Miyako Ikeda. This volume was drafted by Alfonso Echazarra with Esther Carvalhaes and edited by Marilyn Achiron. Statistical and analytical support was co-ordinated by Giannina Rech and provided by Hélène Guillou and Bonaventura Francesco Pacileo. Rose Bolognini co-ordinated production and Fung Kwan Tam designed the publication. Administrative support was provided by Claire Chetcuti, Juliet Evans, Audrey Poupon and Lisa Smadja. Additional members of the OECD PISA and communication teams who provided analytical, statistical and communication support include Peter Adams, Francesco Avvisati, Guillaume Bousquet, Anna Choi, Cassandra Davis, Carlos González-Sancho, Tue Halgreen, Jeffrey Mo, Chiara Monticone, Judit Pál, Mario Piacentini, Daniel Salinas, Shun Shirai, Michael Stevenson, Sophie Vayssettes and Michael Ward. Luka Boeskens, Tracey Burns, Marc Fuster, Paulo Santiago and Claire Shewbridge, from the OECD Directorate for Education and Skills, drafted the boxes on policy. Eric Charbonnier and Etienne Albiser, from the OECD INES and NESLI (Network for the Collection and Adjudication of System-Level Descriptive Information on Educational Structures, Policies and Practices) teams provided advice on the system-level data collection. External consultants for analytical and communication support include Simone Bloem, Henry M. Levin, Christian Monseur and Elodie Pools.

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Executive summary

Many of the scientific principles and theories that 15-year-olds are familiar with were learned at school. As with any other subject, the way science is taught in school can influence not only whether students do well in science, but also whether they become interested enough in the subject to want to pursue it later on, in further education or in a career. Given the impact of science and technology on our daily lives, the expected growth in science-related employment worldwide, and students' declining interest in science as they progress through school, it is important to examine why some students are better prepared for and more interested in science-related careers than others.

PISA 2015 analyses in detail how effective schools and school systems are in providing opportunities to learn science. It examines the financial, material, human and time resources available to schools and students in those schools, how students are selected into different schools and education programmes within schools, and how schools are governed. Students' engagement with and motivation for learning is also explored. The analyses of PISA data describe how all of these factors are associated with student performance in and attitudes towards learning science.

WHAT THE DATA TELL US

Policies about learning science at school and performance in science

- The approximately 6% of students across OECD countries who reported not attending any regular science lessons score 25 points lower than students who reported attending at least one science lesson, after accounting for the socio-economic profile of students and schools. In 34 school systems, particularly in Austria, Belgium, Croatia, France, Germany, the Slovak Republic and Chinese Taipei, the students who reported not attending regular science lessons are more likely to attend socio-economically disadvantaged schools than advantaged schools.
- Across OECD countries, socio-economically advantaged schools are considerably more likely than disadvantaged schools to offer science competitions and a science club as school activities.
- How much time students spend learning and how science is taught are even more strongly associated with science
 performance and the expectations of pursuing a science-related career than how well-equipped and -staffed
 the science department is, which extracurricular science activities are offered at school and science teachers'
 qualifications.
- According to students' reports, and on average across OECD countries, teachers in advantaged schools explain or demonstrate a scientific idea (teacher-directed instruction) more frequently than do teachers in disadvantaged schools. Students who reported that their science teachers frequently use these methods and adapt their teaching to meet students' needs score higher in science, show stronger beliefs about the value of scientific enquiry, and are more likely to expect to pursue a science-related career than students who reported that their teachers use these methods less frequently.



The learning environment

- In most school systems, students in socio-economically disadvantaged schools are more likely to have skipped a day of school than students in advantaged schools. Between 2012 and 2015, the percentage of students who had skipped a whole day of school at least once in the two weeks prior to the PISA test increased by around 5 percentage points across OECD countries.
- Across OECD countries, school principals cited student truancy and staff resisting change as the problems that hinder student learning the most; they also reported that learning in their schools is least hindered by students' use of alcohol or illegal drugs, or students intimidating or bullying other students.
- Students in school systems that select students into different education programmes or types of schools at a later age reported receiving greater support from their teachers.

School governance, assessment and accountability

- Students in private schools score higher in science than students in public schools; but after accounting for the socioeconomic profile of students and schools, students in public schools score higher than students in private schools on
 average across OECD countries and in 22 education systems.
- Standardised tests are used extensively across PISA-participating countries and economies. In about five out of six school systems, more than one in two students are assessed at least once a year with mandatory standardised tests, and in about three out of four countries, more than one in two students are assessed at least once a year with non-mandatory standardised tests.
- When choosing a school for their child, parents are more likely to consider important or very important that there is a safe school environment, that the school has a good reputation and that the school has an active and pleasant climate even more so than their child's academic achievement at the school.

Selecting and grouping students

- Thirty countries and economies used grade repetition less frequently in 2015 than in 2009; in only five countries
 did the incidence of grade repetition increase during the period. The use of grade repetition decreased by at least
 10 percentage points in Costa Rica, France, Indonesia, Latvia, Macao (China), Malta, Mexico and Tunisia.
- Across OECD countries, socio-economically disadvantaged students, students with an immigrant background and boys
 are more likely to have repeated a grade, even after accounting for their academic performance, and their self-reported
 motivation and behaviour.
- The later students are first selected into different schools or education programmes and the less prevalent the incidence
 of grade repetition, the more equitable the school system or the weaker the association between students' socioeconomic status and their performance in science.

Resources invested in education

- Students in larger schools score higher in science and are more likely than students in smaller schools to expect to work in a science-related occupation in the future. But students in smaller schools reported a better disciplinary climate in their science lessons and they are less likely than students in larger schools to skip days of school and arrive late for school, after accounting for schools' and students' socio-economic status.
- On average across OECD countries, students in smaller classes reported more frequently than students in larger classes that their teachers adapt their instruction to their needs, knowledge and level of understanding.
- Students score five points higher in science for every additional hour spent per week in regular science lessons, after accounting for socio-economic status.
- School systems where students spend more time learning after school, by doing homework, receiving additional
 instruction or in private study, tend to perform less well in science.



Reader's guide

Data underlying the figures

The data referred to in this volume are presented in Annex B and, in greater detail, including some additional tables, on the PISA website (www.pisa.oecd.org).

Five symbols are used to denote missing data:

- a The category does not apply in the country concerned. Data are therefore missing.
- c There are too few observations or no observation to provide reliable estimates (i.e. there are fewer than 30 students or fewer than 5 schools with valid data).
- m Data are not available. These data were not submitted by the country or were collected but subsequently removed from the publication for technical reasons.
- w Data have been withdrawn or have not been collected at the request of the country concerned.
- x Data included in another category or column of the table (e.g. x(2) means that data are included in Column 2 of the table).

Country coverage

This publication features data on 72 countries and economies, including all 35 OECD countries and 37 partner countries and economies (see Map of PISA countries and economies in "What is PISA").

The statistical data for Israel are supplied by and under the responsibility of the relevant Israeli authorities. The use of such data by the OECD is without prejudice to the status of the Golan Heights, East Jerusalem and Israeli settlements in the West Bank under the terms of international law.

Two notes were added to the statistical data related to Cyprus:

Note by Turkey: The information in this document with reference to "Cyprus" relates to the southern part of the Island. There is no single authority representing both Turkish and Greek Cypriot people on the Island. Turkey recognises the Turkish Republic of Northern Cyprus (TRNC). Until a lasting and equitable solution is found within the context of the United Nations, Turkey shall preserve its position concerning the "Cyprus issue".

Note by all the European Union Member States of the OECD and the European Union: The Republic of Cyprus is recognised by all members of the United Nations with the exception of Turkey. The information in this document relates to the area under the effective control of the Government of the Republic of Cyprus.

B-S-J-G (China) refers to the four PISA-participating China provinces: Beijing, Shanghai, Jiangsu and Guangdong.

FYROM refers to the Former Yugoslav Republic of Macedonia.

For the countries below, when results are based on students' or school principals' responses:

Argentina: Only data for the adjudicated region of Ciudad Autónoma de Buenos Aires (CABA) are reported in figures and in the text (see Annex A4).

Kazakhstan: Results for Kazakhstan are reported in a selection of figures (see Annex A4).

Malaysia: Results for Malaysia are reported in a selection of figures (see Annex A4).

International averages

The OECD average corresponds to the arithmetic mean of the respective country estimates. It was calculated for most indicators presented in this report.



The OECD total takes the OECD countries as a single entity, to which each country contributes in proportion to the number of 15-year-olds enrolled in its schools. It can be used to assess how a country compares with the OECD area as a whole.

The EU total takes the European Union Member States as a single entity, to which each member contributes in proportion to the number of 15-year-olds enrolled in its schools.

In this publication, the OECD average is generally used when the focus is on comparing performance across education systems. In the case of some countries, data may not be available for specific indicators, or specific categories may not apply. Readers should, therefore, keep in mind that the terms "OECD average" and "OECD total" refer to the OECD countries included in the respective comparisons. In cases where data are not available or do not apply for all sub-categories of a given population or indicator, the "OECD average" may be consistent within each column of a table but not necessarily across all columns of a table.

Rounding figures

Because of rounding, some figures in tables may not add up exactly to the totals. Totals, differences and averages are always calculated on the basis of exact numbers and are rounded only after calculation.

All standard errors in this publication have been rounded to one or two decimal places. Where the value 0.0 or 0.00 is shown, this does not imply that the standard error is zero, but that it is smaller than 0.05 or 0.005, respectively.

Reporting student data

The report uses "15-year-olds" as shorthand for the PISA target population. PISA covers students who are aged between 15 years 3 months and 16 years 2 months at the time of assessment and who are enrolled in school and have completed at least 6 years of formal schooling, regardless of the type of institution in which they are enrolled, and whether they are in full-time or part-time education, whether they attend academic or vocational programmes, and whether they attend public or private schools or foreign schools within the country.

Reporting school data

The principals of the schools in which students were assessed provided information on their schools' characteristics by completing a school questionnaire. Where responses from school principals are presented in this publication, they are weighted so that they are proportionate to the number of 15-year-olds enrolled in the school.

Focusing on statistically significant differences

This volume discusses only statistically significant differences or changes. These are denoted in darker colours in figures and in bold font in tables. See Annex A3 for further information.

Changes in the PISA methodology

Several changes were made to the PISA methodology in 2015:

 Change in assessment mode from paper-based to computer. Over the past 20 years, digital technologies have fundamentally transformed the ways in which we read and manage information. To better reflect how students and societies access, use and communicate information, starting with the 2015 round, the assessment was delivered mainly on computers, although countries had the option to use a paper-based version. In order to ensure comparability of results between paper-based tasks that were used in previous PISA assessments and the computer-delivered tasks used in 2015, the 2015 assessment was anchored to previous assessments through a set of items that showed, across countries, the same characteristics in paper- and computer-delivered form. The statistical models used to facilitate the mode change are based on an approach that examines measurement invariance for each item in both modes. In effect, this both accounts for and corrects the potential effect of mode differences by assigning the same parameters only for item-response variables that are comparable on paper and computer. It is conceivable, however, that country differences in familiarity with computers, or in student motivation to take the test on computer or on paper could influence



differences in country performance. Box I.5.1 in Volume I examines the country-level correlation between students' exposure to computers and changes in mean mathematics performance between 2012 and 2015. The results show that countries where students have greater familiarity with ICT tools are roughly as likely to show positive and negative performance trends, as are countries where students have less familiarity with ICT. For more information, see Annex A5.

• Change in the framework and set of PISA science items. New science items were developed for PISA 2015 to reflect advances in science and other changes that countries had prioritised for the PISA 2015 assessment. Among other goals, the revision of the science framework included the aim to more fully use the capabilities of the new technology-based delivery mode. To verify that the new science assessment allowed for the establishment of reliable trends with previous PISA assessments, an evaluation of dimensionality was conducted. When new and existing science items were treated as related to distinct latent dimensions, the median correlation (across countries/language groups) between these dimensions was 0.92, a very high value (similar to the correlation observed among subscales from the same domain). Model-fit statistics confirmed that a unidimensional model fits the new science assessment, supporting the conclusion that new and existing science items form a coherent unidimensional scale with good reliability. For more information, see Annex A5.

Changes in scaling procedures include:

- Change from a one-parameter model to a hybrid model that applies both a one- and two-parameter model, as appropriate. The one-parameter (Rasch) model is retained for all items where the model is statistically appropriate; a more general 2-parameter model is used instead if the fit of the one-parameter model could not be established. This approach improves the fit of the model to the observed student responses and reduces model and measurement errors.
- Change in treatment of non-reached items to ensure that the treatment is consistent between the estimation
 of item parameters and the estimation of the population model to generate proficiency estimates in the
 form of plausible values. This avoids introducing systematic errors when generating performance estimates.
- Change from cycle-specific scaling to multiple-cycle scaling in order to combine data, and retain and aggregate information about trend items used in previous cycles. This change results in consistent item parameters across cycles, which strengthen and support the inferences made about proficiencies on each scale.
- Change from including only a subsample for item calibration to including the total sample with weights, in order to fully use the available data and reduce the error in item-parameter estimates by increasing the sample size. This reduces the variability of item-parameter estimation due to the random selection of small calibration samples.
- Change from assigning internationally fixed item parameters and dropping a few dodgy items per country, to assigning a few nationally unique item parameters for those items that show significant deviation from the international parameters. This retains a maximum set of internationally equivalent items without dropping data and, as a result, reduces overall measurement errors.

The overall impact of these changes on trend comparisons is quantified by the link errors. As in previous cycles, a major part of the linking error is due to re-estimated item parameters. While the magnitude of link errors is comparable to those estimated in previous rounds, the changes in scaling procedures will result in reduced link errors in future assessment rounds. For more information on the calculation of this quantity and how to use it in analyses, see Annex A5 and the *PISA 2015 Technical Report* (OECD, forthcoming).

• Changes in population coverage and response rates. Even though PISA has consistently used the same standardised methods to collect comparable and representative samples, and population coverage and response rates were carefully reviewed during the adjudication process, slight changes in population coverage and response rates can affect point estimates of proficiency. The uncertainty around the point estimates due to sampling is quantified in sampling errors, which are the major part of standard errors reported for country mean estimates. For more information, see Annexes A2 and A4.



- Change in test design from 13 booklets in the paper-based design to 396 booklet instances. Despite the significant increase in the number of booklet types and instances from previous cycles, it is important to bear in mind that all items belonging to the same domain were delivered in consecutive clusters. No student had more than one hour of test questions related to one domain only. This is an improvement over the existing design, which was made possible by computer delivery. It strengthens the overall measurement of each domain and each respondent's proficiency.
- Changes in test administration. As in PISA 2000 (but different from other cycles up to 2012), students in 2015 had to take their break before starting to work on test clusters 3 and 4, and could not work for more than one hour on clusters 1 and 2. This reduces cluster position effects. Another change in test administration is that students who took the test on computers had to solve test questions in a fixed, sequential order, and could not go back to previous questions and revise their answers after reaching the end of the test booklets. This change prepares the ground for introducing adaptive testing in future rounds of PISA.

In sum, changes to the assessment design, the mode of delivery, the framework and the set of science items were carefully examined in order to ensure that the 2015 results can be presented as trend measures at the international level. The data show no consistent association between students' familiarity with ICT and with performance shifts between 2012 and 2015 across countries. Changes in scaling procedures are part of the link error, as they were in the past, where the link error quantified the changes introduced by re-estimating item parameters on a subset of countries and students who participated in each cycle. Changes due to sampling variability are quantified in the sampling error. The remaining changes (changes in test design and administration) are not fully reflected in estimates of the uncertainty of trend comparisons. These changes are a common feature of past PISA rounds as well, and are most likely of secondary importance when analysing trends.

The factors below are examples of potential effects that are relevant for the changes seen from one PISA round to the next. While these can be quantified and related to, for example, census data if available, these are outside of the control of the assessment programme:

- Change in coverage of PISA target population. PISA's target population is 15-year-old students enrolled in grade 7 or above. Some education systems saw a rapid expansion of 15-year-olds' access to school because of a reduction in dropout rates or in grade repetition. This is explained in detail, and countries' performance adjusted for this change is presented in Chapters 2, 4 and 5 in Volume I.
- Change in demographic characteristics. In some countries, there might be changes in the composition of the population of 15-year-old students. For example, there might be more students with an immigrant background. Chapters 2, 4 and 5 in Volume I present performance (country mean and distribution) adjusted for changes in the composition of the student population, including students' immigrant background, gender and age.
- Change in student competency. The average proficiency of 15-year-old students in 2015 might be higher or lower than that in 2012 or earlier rounds.

Abbreviations used in this report

ESCS	PISA index of economic, social and cultural status	PPP	Purchasing power parity
GDP	Gross domestic product	S.D.	Standard deviation
ISCED	International Standard Classification of Education	S.E.	Standard error
ISCO	International Standard Classification of Occupations	STEM	Science, Technology, Engineering and Mathematics
% dif.	Percentage-point difference	Score dif.	Score-point difference
ICT	Information and Communications Technology		

Further documentation

For further information on the PISA assessment instruments and the methods used in PISA, see the *PISA 2015 Technical Report* (OECD, forthcoming).



This report uses the OECD StatLinks service. Below each table and chart is a URL leading to a corresponding ExcelTM workbook containing the underlying data. These URLs are stable and will remain unchanged over time. In addition, readers of the e-books will be able to click directly on these links and the workbook will open in a separate window, if their Internet browser is open and running.



"What is important for citizens to know and be able to do?" In response to that question and to the need for internationally comparable evidence on student performance, the Organisation for Economic Co-operation and Development (OECD) launched the triennial survey of 15-year-old students around the world known as the Programme for International Students Assessment, or PISA. PISA assesses the extent to which 15-year-old students, near the end of their compulsory education, have acquired key knowledge and skills that are essential for full participation in modern societies. The assessment focuses on the core school subjects of science, reading and mathematics. Students' proficiency in an innovative domain is also assessed (in 2015, this domain is collaborative problem solving). The assessment does not just ascertain whether students can reproduce knowledge; it also examines how well students can extrapolate from what they have learned and can apply that knowledge in unfamiliar settings, both in and outside of school. This approach reflects the fact that modern economies reward individuals not for what they know, but for what they can do with what they know.

PISA is an ongoing programme that offers insights for education policy and practice, and that helps monitor trends in students' acquisition of knowledge and skills across countries and in different demographic subgroups within each country. PISA results reveal what is possible in education by showing what students in the highest-performing and most rapidly improving education systems can do. The findings allow policy makers around the world to gauge the knowledge and skills of students in their own countries in comparison with those in other countries, set policy targets against measurable goals achieved by other education systems, and learn from policies and practices applied elsewhere. While PISA cannot identify cause-and-effect relationships between policies/practices and student outcomes, it can show educators, policy makers and the interested public how education systems are similar and different – and what that means for students.

WHAT IS UNIQUE ABOUT PISA?

PISA is different from other international assessments in its:

- policy orientation, which links data on student learning outcomes with data on students' backgrounds and attitudes towards learning, and on key factors that shape their learning, in and outside of school, in order to highlight differences in performance and identify the characteristics of students, schools and education systems that perform well;
- innovative concept of "literacy", which refers to students' capacity to apply knowledge and skills in key subjects, and to analyse, reason and communicate effectively as they identify, interpret and solve problems in a variety of situations;
- relevance to lifelong learning, as PISA asks students to report on their motivation to learn, their beliefs about themselves, and their learning strategies;
- regularity, which enables countries to monitor their progress in meeting key learning objectives; and
- breadth of coverage, which, in PISA 2015, encompasses the 35 OECD countries and 37 partner countries and economies.



Box A. PISA's contributions to the Sustainable Development Goals

The Sustainable Development Goals (SDGs) were adopted by the United Nations in September 2015. Goal 4 of the SDGs seeks to ensure "inclusive and equitable quality education and promote lifelong learning opportunities for all". More specific targets and indicators spell out what countries need to deliver by 2030. Goal 4 differs from the Millennium Development Goals (MDGs) on education, which were in place between 2000 and 2015, in the following two ways:

- Goal 4 is truly global. The SDGs establish a universal agenda; they do not differentiate between rich and poor countries. Every single country is challenged to achieve the SDGs.
- Goal 4 puts the quality of education and learning outcomes front and centre. Access, participation and enrolment, which were the main focus of the MDG agenda, are still important, and the world is still far from providing equitable access to high-quality education for all. But participation in education is not an end in itself; what matters for people and economies are the skills acquired through education. It is the competence and character qualities that are developed through schooling, rather than the qualifications and credentials gained, that make people successful and resilient in their professional and personal lives. They are also key in determining individual well-being and the prosperity of societies.

In sum, Goal 4 requires education systems to monitor the actual learning outcomes of their young people. PISA, which already provides measurement tools to this end, is committed to improving, expanding and enriching its assessment tools. For example, PISA 2015 assesses the performance in science, reading and mathematics of 15-year-old students in more than 70 high- and middle-income countries. PISA offers a comparable and robust measure of progress so that all countries, regardless of their starting point, can clearly see where they are on the path towards the internationally agreed targets of quality and equity in education.

Through participation in PISA, countries can also build their capacity to develop relevant data. While most countries that have participated in PISA already have adequate systems in place, that isn't true for many low-income countries. To this end, the OECD PISA for Development initiative not only aims to expand the coverage of the international assessment to include more middle- and low-income countries, but it also offers these countries assistance in building their national assessment and data-collection systems. PISA is also expanding its assessment domains to include other skills relevant to Goal 4. In 2015, for example, PISA assesses 15-year-old students' ability to solve problem collaboratively.

Other OECD data, such as those derived from the Survey of Adult Skills (a product of the OECD Programme for the International Assessment of Adult Competencies [PIAAC]) and the OECD Teaching and Learning International Survey (TALIS), provide a solid evidence base for monitoring education systems. OECD analyses promote peer learning as countries can compare their experiences in implementing policies. Together, OECD indicators, statistics and analyses can be seen as a model of how progress towards the SDG education goal can be measured and reported.

Source: OECD (2016), Education at a Glance 2016: OECD Indicators, OECD Publishing, Paris, http://dx.doi.org/10.1787/eag-2016-en.

WHICH COUNTRIES AND ECONOMIES PARTICIPATE IN PISA?

PISA is now used as an assessment tool in many regions around the world. It was implemented in 43 countries and economies in the first assessment (32 in 2000 and 11 in 2002), 41 in the second assessment (2003), 57 in the third assessment (2006), 75 in the fourth assessment (65 in 2009 and 10 in 2010), and 65 in the fifth assessment. So far, 72 countries and economies have participated in PISA 2015.

In addition to all OECD countries, the survey has been or is being conducted in:

- East, South and Southeast Asia: Beijing, Shanghai, Jiangsu and Guangdong (China), Hong Kong (China), Indonesia, Macao (China), Malaysia, Singapore, Chinese Taipei, Thailand and Viet Nam.
- Central, Mediterranean and Eastern Europe, and Central Asia: Albania, Bulgaria, Croatia, Georgia, Kazakhstan, Kosovo, Lebanon, Lithuania, the Former Yugoslav Republic of Macedonia, Malta, Moldova, Montenegro, Romania and the Russian Federation.



- The Middle East: Jordan, Qatar and the United Arab Emirates.
- Central and South America: Argentina, Brazil, Colombia, Costa Rica, Dominican Republic, Peru, Trinidad and Tobago, Uruguay.
- Africa: Algeria and Tunisia.

Map of PISA countries and economies



OECD countries

Australia Korea Austria Latvia Belgium Luxembourg Canada Mexico Chile The Netherlands Czech Republic New Zealand Denmark Norway Estonia Poland Finland Portugal Slovak Republic France Germany Slovenia Greece Spain Hungary Sweden Iceland Switzerland Ireland Turkey United Kingdom Israel Italy United States Japan

Partner countries and economies in PISA 2015

Albania Lithuania Algeria Macao (China) Argentina Malaysia Brazil Malta B-S-J-G (China)* Moldova Bulgaria Montenegro Colombia Peru Costa Rica Qatar Croatia Romania Russian Federation Cyprus¹ Dominican Republic Singapore Former Yugoslav Republic of Macedonia Chinese Taipei Georgia Thailand Trinidad and Tobago Hong Kong (China) Indonesia Tunisia United Arab Emirates Iordan Kazakhstan Uruguay

Partner countries and economies in previous cycles

Azerbaijan Himachal Pradesh-India Kyrgyzstan Liechtenstein Mauritius Miranda-Venezuela Panama Serbia Tamil Nadu-India

Kosovo

Lebanon

1. Note by Turkey: The information in this document with reference to « Cyprus » relates to the southern part of the Island. There is no single authority representing both Turkish and Greek Cypriot people on the Island. Turkey recognises the Turkish Republic of Northern Cyprus (TRNC). Until a lasting and equitable solution is found within the context of the United Nations, Turkey shall preserve its position concerning the "Cyprus issue".

Viet Nam

Note by all the European Union Member States of the OECD and the European Union: The Republic of Cyprus is recognised by all members of the United Nations with the exception of Turkey. The information in this document relates to the area under the effective control of the Government of the Republic of Cyprus.

WHAT DOES THE TEST MEASURE?

In each round of PISA, one of the core domains is tested in detail, taking up nearly half of the total testing time. The major domain in 2015 was science, as it was in 2006. Reading was the major domain in 2000 and 2009, and mathematics was the major domain in 2003 and 2012. With this alternating schedule of major domains, a thorough analysis of achievement in each of the three core areas is presented every nine years; an analysis of trends is offered every three years.

^{*} B-S-J-G (China) refers to the four PISA participating China provinces: Beijing, Shanghai, Jiangsu, Guangdong.



The PISA 2015 Assessment and Analytical Framework (OECD, 2016a) presents definitions and more detailed descriptions of the domains assessed in PISA 2015:

- Science literacy is defined as the ability to engage with science-related issues, and with the ideas of science, as a reflective citizen. A scientifically literate person is willing to engage in reasoned discourse about science and technology, which requires the competencies to explain phenomena scientifically, evaluate and design scientific enguiry, and interpret data and evidence scientifically.
- **Reading literacy** is defined as students' ability to understand, use, reflect on and engage with written texts in order to achieve one's goals, develop one's knowledge and potential, and participate in society.
- Mathematical literacy is defined as students' capacity to formulate, employ and interpret mathematics in a variety
 of contexts. It includes reasoning mathematically and using mathematical concepts, procedures, facts and tools to
 describe, explain and predict phenomena. It assists individuals in recognising the role that mathematics plays in the
 world and to make the well-founded judgements and decisions needed by constructive, engaged and reflective citizens.

Box B. Key features of PISA 2015

The content

 The PISA 2015 survey focused on science, with reading, mathematics and collaborative problem solving as minor areas of assessment. PISA 2015 also included an assessment of young people's financial literacy, which was optional for countries and economies.

The students

 Approximately 540 000 students completed the assessment in 2015, representing about 29 million 15-year-olds in the schools of the 72 participating countries and economies.

The assessment

- Computer-based tests were used, with assessments lasting a total of two hours for each student.
- Test items were a mixture of multiple-choice questions and questions requiring students to construct their own responses. The items were organised in groups based on a passage setting out a real-life situation. About 810 minutes of test items for science, reading, mathematics and collaborative problem solving were covered, with different students taking different combinations of test items.
- Students also answered a background questionnaire, which took 35 minutes to complete. The questionnaire sought information about the students themselves, their homes, and their school and learning experiences. School principals completed a questionnaire that covered the school system and the learning environment. For additional information, some countries/economies decided to distribute a questionnaire to teachers. It was the first time that this optional teacher questionnaire was offered to PISA-participating countries/economies. In some countries/economies, optional questionnaires were distributed to parents, who were asked to provide information on their perceptions of and involvement in their child's school, their support for learning in the home, and their child's career expectations, particularly in science. Countries could choose two other optional questionnaires for students: one asked students about their familiarity with and use of information and communication technologies (ICT); and the second sought information about students' education to date, including any interruptions in their schooling, and whether and how they are preparing for a future career.

HOW IS THE ASSESSMENT CONDUCTED?

For the first time, PISA 2015 delivered the assessment of all subjects via computer. Paper-based assessments were provided for countries that chose not to test their students by computer, but the paper-based assessment was limited to questions that could measure trends in science, reading and mathematics performance. New questions were developed for the computer-based assessment only. A field trial was used to study the effect of the change in how the assessment was delivered. Data were collected and analysed to establish equivalence between the computer- and paper-based assessments.



The 2015 computer-based assessment was designed as a two-hour test. Each test form allocated to students comprised four 30-minute clusters of test material. This test design included six clusters from each of the domains of science, reading and mathematics to measure trends. For the major subject of science, an additional six clusters of items were developed to reflect the new features of the 2015 framework. In addition, three clusters of collaborative problem-solving items were developed for the countries that decided to participate in that assessment.² There were 66 different test forms. Students spent one hour on the science assessment (one cluster each of trends and new science items) plus one hour on one ore two other subjects – reading, mathematics or collaborative problem solving. For the countries/economies that chose not to participate in the collaborative problem-solving assessment, 36 test forms were prepared.

Countries that chose paper-based delivery for the main survey measured student performance with 30 pencil-and-paper forms containing trend items from two of the three core PISA domains.

Each test form was completed by a sufficient number of students, allowing for estimations of proficiency on all items by students in each country/economy and in relevant subgroups within a country/economy (such as boys and girls, and students from different social and economic backgrounds).

The assessment of financial literacy was offered as an option in PISA 2015 based on the same framework as the one developed for PISA 2012.³ The financial literacy assessment lasted one hour and comprised two clusters distributed to a subsample of students in combination with the science, mathematics and reading assessments.

To gather contextual information, PISA 2015 asked students and the principal of their school to respond to questionnaires. The student questionnaire took about 35 minutes to complete; the questionnaire for principals took about 45 minutes to complete. The responses to the questionnaires were analysed with the assessment results to provide both a broader and more nuanced picture of student, school and system performance. The *PISA 2015 Assessment and Analytical Framework* (OECD, 2016a) presents the questionnaire framework in detail. The questionnaires from all assessments since PISA's inception are available on the PISA website: www.pisa.oecd.org.

The questionnaires seek information about:

- Students and their family backgrounds, including their economic, social and cultural capital.
- Aspects of students' lives, such as their attitudes towards learning, their habits and life in and outside of school, and their family environment.
- Aspects of schools, such as the quality of the schools' human and material resources, public and private management
 and funding, decision-making processes, staffing practices, and the school's curricular emphasis and extracurricular
 activities offered.
- Context of instruction, including institutional structures and types, class size, classroom and school climate, and science activities in class.
- Aspects of learning, including students' interest, motivation and engagement.

Four additional questionnaires were offered as options:

- A computer familiarity questionnaire, focusing on the availability and use of information and communications technology (ICT) and on students' ability to carry out computer tasks and their attitudes towards computer use.
- An educational career questionnaire, which collects additional information on interruptions in schooling, on preparation for students' future career, and on support with science learning.
- A parent questionnaire, focusing on parents' perceptions of and involvement in their child's school, their support for learning at home, school choice, their child's career expectations, and their background (immigrant/non-immigrant).
- A teacher questionnaire, which is new to PISA, will help establish the context for students' test results. In PISA 2015, science teachers were asked to describe their teaching practices through a parallel questionnaire that also focuses on teacher-directed teaching and learning activities in science lessons, and a selected set of enquiry-based activities. The teacher questionnaire asked about the content of the school's science curriculum and how it is communicated to parents too.



The contextual information collected through the student, school and optional questionnaires are complimented by system-level data. Indicators describing the general structure of the education systems, such as expenditure on education, stratification, assessments and examinations, appraisals of teachers and school leaders, instruction time, teachers' salaries, actual teaching time and teacher training are routinely developed and applied by the OECD (e.g. in the annual OECD publication, *Education at a Glance*). These data are extracted from *Education at a Glance 2016* (OECD, 2016b), *Education at a Glance 2015* (OECD, 2015) and *Education at a Glance 2014* (OECD, 2014) for the countries that participate in the annual OECD data collection that is administered through the OECD Indicators of Education Systems (INES) Network. For other countries and economies, a special system-level data collection was conducted in collaboration with PISA Governing Board members and National Project Managers.

WHO ARE THE PISA STUDENTS?

Differences between countries in the nature and extent of pre-primary education and care, in the age at entry into formal schooling, in the structure of the education system, and in the prevalence of grade repetition mean that school grade levels are often not good indicators of where students are in their cognitive development. To better compare student performance internationally, PISA targets students of a specific age. PISA students are aged between 15 years 3 months and 16 years 2 months at the time of the assessment, and have completed at least 6 years of formal schooling. They can be enrolled in any type of institution, participate in full-time or part-time education, in academic or vocational programmes, and attend public or private schools or foreign schools within the country. (For an operational definition of this target population, see Annex A2.) Using this age across countries and over time allows PISA to compare consistently the knowledge and skills of individuals born in the same year who are still in school at age 15, despite the diversity of their education histories in and outside of school.

The population of PISA-participating students is defined by strict technical standards, as are the students who are excluded from participating (see Annex A2). The overall exclusion rate within a country was required to be below 5% to ensure that, under reasonable assumptions, any distortions in national mean scores would remain within plus or minus 5 score points, i.e. typically within the order of magnitude of 2 standard errors of sampling. Exclusion could take place either through the schools that participated or the students who participated within schools (see Annex A2, Tables A2.1 and A2.2).

There are several reasons why a school or a student could be excluded from PISA. Schools might be excluded because they are situated in remote regions and are inaccessible, because they are very small, or because of organisational or operational factors that precluded participation. Students might be excluded because of intellectual disability or limited proficiency in the language of the assessment.

In 30 out of the 72 countries and economies that participated in PISA 2015, the percentage of school-level exclusions amounted to less than 1%; it was 4.1% or less in all countries and economies. When the exclusion of students who met the internationally established exclusion criteria is also taken into account, the exclusion rates increase slightly. However, the overall exclusion rate remains below 2% in 29 participating countries and economies, below 5% in 60 participating countries, and below 7% in all countries except the United Kingdom, Luxembourg (both 8.2%) and Canada (7.5%). In 13 out of the 35 OECD countries, the percentage of school-level exclusions amounted to less than 1% and was less than 3% in 30 OECD countries. When student exclusions within schools are also taken into account, there were 7 OECD countries below 2% and 25 OECD countries below 5%. For more detailed information about school and student exclusion from PISA 2015, see Annex A2.

WHAT KINDS OF RESULTS DOES PISA PROVIDE?

Combined with the information gathered through the tests and the various questionnaires, the PISA assessment provides three main types of outcomes:

- Basic indicators that provide a baseline profile of the knowledge and skills of students.
- Indicators derived from the questionnaires that show how such skills relate to various demographic, social, economic
 and education variables.
- Indicators on trends that show changes in outcomes and distributions, and in relationships between student-level, school-level, and system-level background variables and outcomes.



WHERE CAN YOU FIND THE RESULTS?

This is the second of five volumes that present the results from PISA 2015. It begins by examining how the school resources devoted to science and how science is taught in schools are related to student performance in science, students' beliefs about the value of scientific enquiry, and students' expectations in pursuing a career in science. Chapter 3 describes the learning environment in different types of schools and examines how it is related to student performance. It covers student truancy, the disciplinary climate, student and teacher behaviour that can influence the climate for learning, and collaboration between teachers and parents. Chapter 4 examines the governance of school systems, assessment practices and accountability procedures and how they are related to student performance. Chapter 5 discusses the ways in which students are selected and grouped into different grade levels, schools, programmes and classes within schools, based mainly on their performance, and how these practices are associated with science performance. Chapter 6 examines the relationship between the financial, material, human and time resources invested in education and both student performance and equity in education. Chapter 7 discusses what the PISA results imply for policy, and highlights the policy-reform experiences of some countries that have improved during their participation in PISA.

The other four volumes cover the following issues:

- Volume 1: Excellence and Equity in Education provides a detailed examination of student performance in science and describes how performance has changed over previous PISA assessments. It also explores students' engagement with and attitudes towards science, including their expectations of working in a science-related career later on. An overview of student performance in reading and mathematics in 2015 is also provided, along with a description of how performance in those subjects has evolved over previous PISA assessments. The volume defines and discusses equity in education, focusing particularly on how socio-economic status and an immigrant background are related to students' performance in PISA and to their attitudes towards science.
- Volume III: Students' Well-Being describes how well adolescent students are learning and living. This volume analyses a broad set of indicators that, collectively, paint a picture of 15-year-old students' home and school environments, the way students communicate with family and friends, how and how often they use the Internet, their physical activities and eating habits, their aspirations for future education, their motivation for school work, and their overall satisfaction with life.
- Volume IV: Students' Financial Literacy examines 15-year-old students' understanding about money matters in the 15 countries and economies that participated in this optional assessment. The volume explores how the financial literacy of 15-year-old students is associated with their competencies in science, reading and mathematics, with their socio-economic status, and with their previous experiences with money. The volume also offers an overview of financial education in schools in the participating countries and economies, and provides case studies.
- Volume V: Collaborative Problem Solving examines students' ability to work with two or more people to try to solve a problem. The volume provides the rationale for assessing this particular skill and describes performance within and across countries. In addition, the volume highlights the relative strengths and weaknesses of each school system and examines how they are related to individual student characteristics, such as gender, immigrant background and socio-economic status. The volume also explores the role of education in building young people's skills in solving problems collaboratively.

Volume II is published at the same time as Volume I; Volumes III, IV and V will be published in 2017.

The frameworks for assessing science, reading and mathematics in 2015 are described in the PISA 2015 Assessment and Analytical Framework: Science, Reading, Mathematic and Financial Literacy (OECD, 2016a). They are also summarised in this volume.

Technical annexes at the end of this volume describe how questionnaire indices were constructed, and discuss sampling issues, quality-assurance procedures and the process followed for developing the assessment instruments. Many of the issues covered in the technical annexes are elaborated in greater detail in the PISA 2015 Technical Report (OECD, forthcoming).

All data tables referred to in the analyses are included at the end of the respective volume in Annex B1, and a set of additional data tables is available on line (www.pisa.oecd.org). A Reader's Guide is also provided in each volume to aid in interpreting the tables and figures that accompany the report. Data from regions within the participating countries are included in Annex B2.



Notes

- 1. The paper-based form was used in 15 countries/economies including Albania, Algeria, Argentina, Georgia, Indonesia, Jordan, Kazakhstan, Kosovo, Lebanon, Macedonia, Malta, Moldova, Romania, Trinidad and Tobago, and Viet Nam, as well as in Puerto Rico, an unincorporated territory of the United States.
- 2. The collaborative problem solving assessment was not conducted in the countries/economies that delivered the PISA 2015 assessment on paper, nor was it conducted in the Dominican Republic, Ireland, Poland, Qatar or Switzerland.
- 3. The financial literacy assessment was conducted in Australia, Belgium (Flemish Community only), B-S-J-G (China), Brazil, Canada, Chile, Italy, Lithuania, the Netherlands, Peru, Poland, the Russian Federation, the Slovak Republic, Spain and the United States.

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Overview: Policies and practices for successful schools

A note regarding Israel

The statistical data for Israel are supplied by and under the responsibility of the relevant Israeli authorities. The use of such data by the OECD is without prejudice to the status of the Golan Heights, East Jerusalem and Israeli settlements in the West Bank under the terms of international law.



Most 15-year-olds learn about scientific principles and theories at school. As with any other subject, the way science is taught in school can influence not just whether students do well in science, but whether students become interested enough in the subject to want to pursue it later on, in further education or in a career.

Australia, Canada, Ireland, Portugal, Singapore, Slovenia and the United Kingdom are high performers in science. Their 15-year-old students hold strong beliefs about the value of scientific enquiry, and larger-than-average proportions of students in these countries expect to work in a science-related occupation later on.

What are the policies, or combinations of policies, that are common to these school systems? All of these countries score near or above the OECD average on most of the indices concerning resources devoted to education and teaching practices, including quality and quantity of teaching staff, learning time, approaches to teaching science and extracurricular activities (Figure II.2.3). PISA results also show the different combinations of resources and practices that are associated with these countries' success.

Some 6% of 15-year-old students across OECD countries reported that they are not required to attend a science class.

If time is a necessary condition for learning, students who do not attend science lessons are probably those who enjoy the fewest opportunities to acquire competencies in science. PISA 2015 asked students how many regular science lessons they were required to attend per week. On average across OECD countries, 94% of students reported that they attend at least one science course per week. But that means that at least one million 15-year-old students are not required to attend any science lesson (Table II.2.3).

Why does this matter? Across OECD countries, students who are not required to attend science lessons score 25 points lower in science than students who are required to attend at least one science lesson per week, after accounting for the socio-economic profile of students and schools (Figure II.2.4). Even if their poor performance in science is one of the reasons why these students do not take science courses in the first place, these findings indicate the extent to which student performance in science may suffer when students do not attend science classes. The requirement to attend at least one science course is more common in socio-economically advantaged schools than in disadvantaged schools (Figure II.1.1).

On average across OECD countries, students in schools that offer science competitions score 36 score points higher in science and are 55% more likely to expect to work in a science-related occupation than students in schools that do not offer such activities; those in schools offering a science club score 21 score points higher and are 30% more likely to expect to pursue a career in science.

Students in schools whose principals reported a well-equipped and well-staffed science department generally perform better in science – by about three score points for every positive statement concerning the school's science department, on average across OECD countries – after accounting for the socio-economic profile of students and schools (Table II.2.6). In 24 education systems, students in schools whose principal reported that the science department enjoys more resources were more likely to report that they expect to work in a science-related occupation in the future.

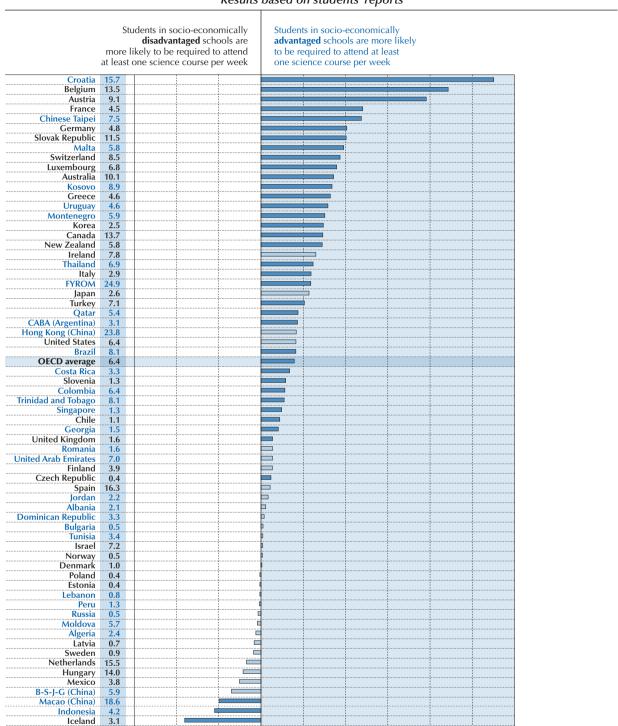
Laboratories and experiments are not the only ways through which schools can engage students in learning science. Extracurricular activities, such as science clubs and competitions, can help students understand scientific concepts, raise interest in science and even nurture future scientists. PISA 2015 asked principals if their school offers a science club or science competitions at the school. Across OECD countries, 39% of students are enrolled in schools that offer a science club and 66% attend schools that offer science competitions (Figure II.2.9).

In 42 of 70 PISA-participating countries and economies, students in advantaged schools are more likely to be offered science competitions than students in disadvantaged schools (Table II.2.13). The largest differences are observed mainly in education systems with early tracking, including Austria, Germany, the Netherlands and Switzerland. Disadvantaged students may thus have fewer opportunities to acquire scientific competencies; and this is reflected in their performance.



Figure II.1.1 • Differences in the requirement to attend regular science lessons, by schools' socio-economic profile

Results based on students' reports



Notes: Statistically significant differences are marked in a darker tone (see Annex A3).

-10

The percentage of students who are not required to attend any science course is shown next to the country/economy name.

-5

Countries and economies are ranked in descending order of the percentage-point difference between students in socio-economically advantaged and disadvantaged schools who are required to attend at least one science course per week.

10

Source: OECD, PISA 2015 Database, Table II.2.3.

30.0

Portugal

StatLink http://dx.doi.org/10.1787/888933435485

-15

30 Percentage-point difference

20

25



PISA results show that, in most education systems, the percentage of qualified science teachers is not related to students' science scores. But the way science is taught is related to students' performance in science, their expectations of working in a science-related occupation, and their beliefs about the value of scientific enquiry.

Across OECD countries, 84% of science teachers are fully certified and 74% have a university degree with a major in science (Table II.2.8). The percentage of science teachers with a university degree and a major in science ranges from more than 95% of teachers in Bulgaria, Costa Rica and Montenegro, to less than 25% in Italy, Peru and Uruguay.

But it is the way science is taught, rather than the qualifications of the teacher, that appears to have a stronger association with student performance, students' beliefs about science and their expectations of pursuing a science-related career. Even if there is no single "best" way of teaching, students need teachers who are challenging and innovative in the way they combine different instructional practices, and who can reach all types of learners by adapting the lessons to students' needs and knowledge.

PISA results show that when teachers frequently explain and demonstrate scientific ideas, and discuss students' questions (known, collectively, as teacher-directed instruction), students score higher in science (except in Indonesia, Korea and Peru), they have stronger beliefs in the value of scientific enquiry (what are known as epistemic beliefs) and are more likely to expect to work in a science-related occupation later on. Adapting instruction to students' needs, such as by providing individual help to struggling students or changing the structure of a lesson on a topic that most students find difficult to understand, is also related to higher scores in science and stronger epistemic beliefs.

Perhaps surprisingly, in no education system do students who reported that they are frequently exposed to enquiry-based instruction (when they are encouraged to experiment and engage in hands-on activities) score higher in science. After accounting for students' and schools' socio-economic profile, in 56 countries and economies, greater exposure to enquiry-based instruction is associated with lower scores in science. However, across OECD countries, more frequent enquiry-based teaching is positively related to students holding stronger epistemic beliefs and being more likely to expect to work in a science-related occupation when they are 30 (Tables II.2.16, II.2.22, II.2.26).

High performance in science is most strongly related to the time students devote to learning science and how their teachers teach science.

PISA results show that the quality of the material and human resources of a science department, and the kinds of science activities offered to students have a weaker impact on student performance than how much time students devote to learning science and the methods their teachers use to teach the subject. Students perform better in science than in the other subjects that PISA assesses (reading and mathematics) when they spend more time learning science than learning the other two subjects (both in regular lessons and after school), and particularly when their teachers frequently explain and demonstrate scientific ideas, support students in their learning and expose them to more enquiry-based instruction. These two factors – time invested and teaching methods used – are also more strongly related to students' expectations to pursue a science-related career than the quality of the material and human resources available to a school's science department.

Pervasive truancy in a school seems to affect even students who may not be truants themselves.

The environment at school influences students' engagement and performance, and teachers' desire to continue working in the school. Student truancy has a discernible effect on the learning environment and, ultimately, on student performance and engagement.

On average across OECD countries, 26% of students said they had skipped classes at least once and 20% reported that they had skipped a whole day of school at least once in the two weeks prior to the PISA test. In PISA-participating countries and economies, skipping a whole day of school is more common in disadvantaged schools than in advantages schools (Figure II.3.3). This is observed in 44 countries and economies, compared to only 4 education systems where students in advantaged schools are more likely to have skipped a day of school.

Missing opportunities to learn because of truancy matters: in all countries and economies except Turkey and the United Arab Emirates, students who had skipped a whole day of school are more likely to score lower in science, and a large part of that relationship remains even after accounting for socio-economic status. On average across OECD countries, students who had skipped a whole day of school at least once in the two weeks prior to the PISA assessment score 45 points lower in the science assessment than students who had not skipped a day of school (33 points lower after accounting for the socio-economic profile of students and schools) (Table II.3.4).



The percentage of students who reported that they had skipped a day of school in the two weeks prior to the PISA test increased between 2012 and 2015 by at least 25 percentage points in Brazil, Colombia, Finland, Montenegro, Peru, the Slovak Republic and Uruguay, and decreased the most in Australia, Canada, Spain, Turkey and the United Arab Emirates (Figure II.1.2).

And student truancy has broader ramifications. In all countries and economies, there are some schools with higher concentrations of students who have skipped a school day than found in other schools. In 40 PISA-participating education systems, students score lower in science when more of their peers had skipped a day of school in the two weeks prior to the PISA test, after accounting for the socio-economic status; nowhere do students perform better in those circumstances (Figure II.3.5). And on average across OECD countries, students reported a better disciplinary climate in school when more of their peers attend school regularly (Figure II.3.6).

According to students' reports, teachers in disadvantaged schools support students in their learning more frequently than teachers in advantaged schools.

Disadvantaged students are in greater need of teacher support. Across OECD countries, support from teachers is not associated with student performance in science before accounting for the socio-economic status of students and schools; but after accounting for socio-economic status, the association becomes positive, on average across OECD countries and in 27 countries and economies (Figure II.3.12). These results indicate that teachers not only respond to struggling students, but that their support may improve student performance.

Similarly, based on responses to the parents' and principals' questionnaires, parents participate more where they are needed more – such as in schools where student problems, such as poor discipline, truancy or disengagement, cannot be solved without them – and school principals school leaders may (need to) show more active leadership when the learning environment deteriorates and student problems arise.

Responsibilities for school governance are shared, to different degrees, among teachers, principals, school boards, local/regional education authorities and national authorities.

On average across OECD countries, 39% of the responsibility for school resources lies with principals, 3% with teachers, 12% with school boards, 23% with local or regional authorities, and the remaining 23% with national authorities (Figure II.4.3). For the curriculum, 22% of the responsibility lies with principals, 44% with teachers, 8% with school boards, and the remaining 27% shared between local, regional and national authorities (Figure II.4.4). And responsibility for student assessment policies lies mainly with school principals (32%) and teachers (36%), with a minor role played by the other actors (Figure II.4.5).

Between 2009 and 2015, principals in Lithuania gained considerable responsibility for most tasks, particularly for teachers' salaries and the school budget. These responsibilities appear to have been transferred mainly from national education authorities. In Finland, school principals exercised greater autonomy over selecting and firing teachers in 2015 than in 2009, but had less responsibility for the curriculum and for assessment and disciplinary policies. By contrast, school principals in Qatar indicated that national education authorities assumed considerably more responsibility for all tasks between 2009 and 2015. In Turkey, national education authorities gained responsibility for all tasks except those related to school resources and textbooks; and in Slovenia, national education authorities gained greater responsibility for selecting and firing teachers, for the curriculum, and for disciplinary and admissions policies.

In education systems where school principals hold greater responsibility for school governance, students score higher in science; and this relationship is stronger across school systems where the percentage of students whose achievement data are tracked over time and posted publicly is higher than the OECD average.

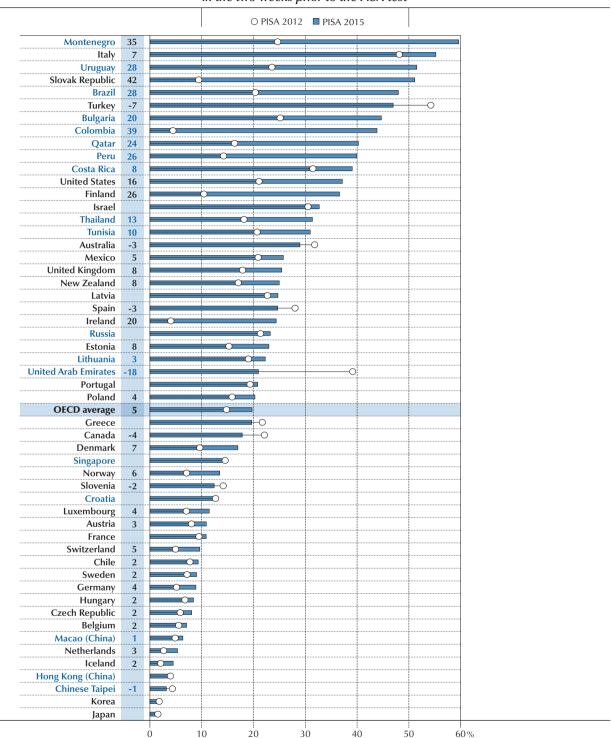
According to school principals, schools in the Czech Republic, Lithuania, Macao (China), the Netherlands and the United Kingdom enjoy the greatest autonomy while those in Greece, Jordan, Tunisia and Turkey are granted the least autonomy. On average across OECD countries and in 32 education systems, socio-economically advantaged schools enjoy greater autonomy than disadvantaged schools; and, on average across OECD countries and in 15 other education systems, urban schools are granted more autonomy than rural schools. Not surprisingly, in almost all education systems, private schools exercise greater autonomy than public schools.

In 29 education systems and on average across OECD countries, students in schools whose principal reported that more responsibility for school management lies with schools score higher in science (Figure II.4.7). But after accounting for the socio-economic profile of students and schools, there is no association between school autonomy and student performance in science, on average across OECD countries.



Figure II.1.2 • Change between 2012 and 2015 in student truancy

Percentage of students who reported having skipped a day of school at least once in the two weeks prior to the PISA test



Notes: Only countries/economies that participated in both 2012 and 2015 PISA assessments are shown.

Only percentage-point differences between PISA 2012 and PISA 2015 that are statistically significant are shown next to the country/economy name (see Annex A3).

Countries and economies are ranked in descending order of the percentage of students who had skipped a whole day of school at least once in the two weeks prior to the PISA test, in 2015.

Source: OECD, PISA 2015 Database, Tables II.3.1, II.3.2 and II.3.3.



At the level of the school system, science scores and equity in science performance are unrelated to the percentage of students who are enrolled in public schools (Figure II.4.15), and there is no association between equity in science performance and attendance at either government-dependent or government-independent private schools.

About 84% of 15-year-old students attend public schools, on average across OECD countries, about 12% attend government-dependent private schools, and slightly more than 4% attend government-independent private schools (Table II.4.7). Across OECD countries, of the 12% of students who are enrolled in private government-dependent schools, around 38% of them attend schools run by a church or other religious organisation, 54% attend schools run by another non-profit organisation, and 8% attend schools run by a for-profit organisation. Across the education systems that participated in PISA 2015, socio-economically disadvantaged schools and rural schools are more likely to be public (Figure II.4.14). In fact, only in Montenegro and Chinese Taipei are advantaged schools more likely than disadvantaged schools to be public, and only in Slovenia are urban schools more likely to be public than rural schools.

On average across OECD countries and in 32 education systems, students enrolled in public schools score lower in science than students in private schools do (Figure II.4.14). But as has been noted in previous PISA reports, this is no longer the case after accounting for socio-economic status. In 22 education systems and across OECD countries, students in public schools score higher than students in private schools, after students' and schools' socio-economic profile is taken into account. This is because students in public schools are considerably more disadvantaged than students in private schools. In Italy, Japan, Singapore, Chinese Taipei, Thailand, Tunisia, Turkey and Viet Nam, students in public schools score more than 40 points higher in science than students in private schools, after accounting for the socio-economic status of students and schools (Table II.4.10).

Student assessments and teacher appraisals are more widely used than commonly believed.

Standardised tests are used extensively across PISA-participating countries and economies. In about five out of six school systems, more than one in two students are assessed at least once a year with mandatory standardised tests (Figure II.4.21), and in about three out of four countries, more than one in two students are assessed at least once a year with non-mandatory standardised tests (Table II.4.21).

On average across OECD countries, 81% of students attend schools whose principals reported that tests or assessments of student achievement and principal or senior staff observations of lessons were used to monitor the practice of teachers (Figure II.4.31). But the practice of monitoring teachers is far from universal. Based on principals' reports, all schools in Macao (China) use teacher peer reviews, but in Finland, Iceland and Spain, fewer than one in three students attends such schools. In 49 education systems, at least nine out of ten students attend schools whose principal or senior staff observe lessons, but in Greece, Italy and Spain, fewer than one in three students attends such schools.

Grade repetition is more prevalent in school systems where students score lower on the PISA science assessment and where students' socio-economic status is most strongly associated with science performance; but fewer students in 2015 than in 2009 reported that they had repeated a grade.

Not all 15-year-olds are enrolled in the same grade in school. Students might have been kept back to repeat course content that they had not fully mastered; or they might have been invited to skip a grade when their teachers felt they were capable of taking on more challenging schoolwork. Japan and Norway have established policies whereby students in compulsory schooling are promoted automatically to the next grade at the end of each school year, a practice known as "social promotion". In these two countries, grade repetition rates have traditionally been negligible. The incidence of grade repetition is also minimal in Iceland and Chinese Taipei (Table II.5.9). But in 13 countries and economies, at least 30% of students had repeated a grade at least once in primary or secondary education. For example, in Algeria, 69% of 15-year-old students had repeated a grade at least once, and in Colombia, 43% of students had done so. In Brazil, 36% of students had repeated a grade; in Uruguay 35% of students had done so; in Belgium, the Dominican Republic, Macao (China) and Tunisia, 34% of students had repeated a grade; in Trinidad and Tobago, 33% of students had done so; and in Costa Rica, Luxembourg, Portugal and Spain, 31% of students had repeated a grade.

Results from PISA show that grade repetition is about the same in primary and in secondary education, regardless of whether the country's/economy's repetition rate is high or low. On average across OECD countries, 7% of 15-year old students had repeated a grade in primary school, 6% had repeated a grade in lower secondary school and 2% had repeated a grade in upper secondary school at least once. At any of the three levels, those students who had repeated a grade were usually retained for one grade only; multiple repetition (i.e. more than once) affected less than 1% of students (Table II.5.9).



Many people would agree that performance, behaviour and motivation are legitimate reasons for deciding which students repeat a grade; and the data clearly show these associations. What is more troubling is that, even after accounting for students' academic performance, behaviour and motivation, in many education systems, a student with certain characteristics is more likely to have repeated a grade than other students. For instance, across OECD countries, boys are more likely than girls, socio-economically disadvantaged students are more likely than advantaged students, and students with an immigrant background are more likely than students with no immigrant background to have repeated a grade. In some countries, like Austria, Colombia, Korea, New Zealand and Thailand, advantaged and disadvantaged students are equally likely to have repeated a grade, after accounting for their academic performance, behaviour and motivation (Figure II.5.7). However, in others, including Bulgaria, Canada, the Czech Republic, Poland, Portugal, the Russian Federation (hereafter "Russia"), the Slovak Republic, Spain and Uruguay, disadvantaged students are more likely to have repeated a grade than advantaged students.

One promising finding is that, across OECD countries, the percentage of students who reported that they had repeated a grade at least once decreased by almost 3 percentage points between 2009 and 2015 (Figure II.1.3). The percentage of students who had repeated a grade in either primary, lower secondary or upper secondary school dropped significantly and by a margin of 10 percentage points or more in Costa Rica, France, Indonesia, Latvia, Macao (China), Malta, Mexico and Tunisia. By contrast, in Austria, Colombia, Qatar, Romania and Trinidad and Tobago, the percentage of students who reported that they had repeated a grade was higher in 2015 than it was in 2009.

Selecting students into different programmes or schools, especially when students are young, is strongly associated with less academic inclusion across schools and less equity in science performance.

On average across OECD countries, school systems begin selecting students for different programmes at the age of 14. Some OECD countries, including Austria and Germany, start selecting students as early as age 10; but the most common age at selection is 16. Among partner countries and economies with available data, the most common practice, observed in 19 countries, is to start selection into different programmes at the age of 15. A few countries select students earlier: Argentina, Croatia and Romania begin selecting students for different programmes at age 14, Bulgaria begins at age 13, and Singapore starts as early as age 12. The Dominican Republic, Jordan, Lithuania, Malta, Peru, Qatar and Russia delay selection into different study programmes until students are 16 years old (Table II.5.27).

In 2015, 82% of 15-year-old students, on average across OECD countries, were enrolled in a programme with a general curriculum, 14% were enrolled in a programme with a pre-vocational or vocational curriculum, and 4% were in modular programmes that combine any or all of these curricula. In 27 countries, including OECD countries Chile, Denmark, Estonia, Finland, Iceland, Ireland, Israel, Latvia, New Zealand, Norway, Poland, Spain, Sweden, the United Kingdom and the United States, more than 99% of 15-year-old students were enrolled in a general programme. Enrolment in vocational or pre-vocational programmes is largest in Austria, Croatia, the Former Yugoslav Republic of Macedonia, (hereafter "FYROM"), Montenegro and Slovenia, where more than one in two students follow this curricular orientation. The largest proportions of students enrolled in modular programmes are found in Canada, with all students enrolled in such programmes, and the Slovak Republic, with one in four students enrolled in such programmes (Table II.5.14).

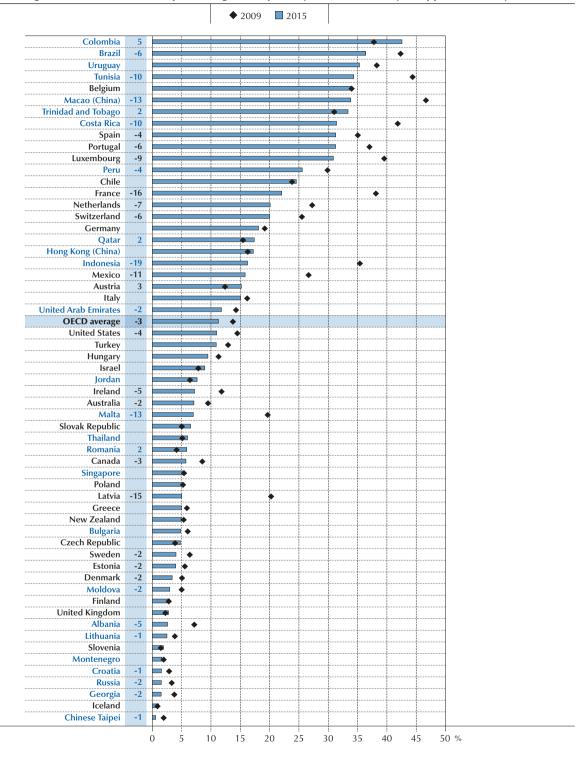
In countries and economies with large enrolments in pre-vocational or vocational programmes, these enrolments vary markedly according to schools' socio-economic profiles. On average across OECD countries, the proportion of 15-year-old students enrolled in a vocational track is 21 percentage points larger among students in disadvantaged schools than among students in advantaged schools. The relationship between schools' socio-economic profile and enrolment in pre-vocational or vocational programmes is strongest in Austria, Croatia, Italy, the Netherlands and Slovenia (Figure II.5.9). In these countries/economies, the difference in enrolment in these programmes between students in advantaged and disadvantaged schools is 60 percentage points or larger.

On average across OECD countries, students in general programmes score 22 points higher on the PISA 2015 science assessment than those enrolled in pre-vocational or vocational programmes, on average across OECD countries after accounting for students' and schools' socio-economic profile (Figure II.5.10). However, among countries and economies where enrolment rates in vocational programmes are higher than 10%, these performance differences can amount to as much as 91 score points, as in the Netherlands, approximately 60 score points, as in Greece, or between 40 and 60 score points, as in Belgium, Croatia, France, Portugal and Turkey. In Brazil, Colombia, Costa Rica, the Dominican Republic, Japan, Luxembourg, Mexico and Switzerland, students in pre-vocational or vocational programmes score higher in science than students in general or academic programmes.



Figure II.1.3 ■ Change between 2009 and 2015 in grade repetition rates

Percentage of students who had repeated a grade in primary, lower secondary or upper secondary school



Notes: Statistically significant differences are shown next to the country/economy name (see Annex A3).

Only countries and economies with comparable data from PISA 2009 and PISA 2015 are shown.

For Costa Rica, Georgia, Malta and Moldova, the change between PISA 2009 and PISA 2015 represents the change between 2010 and 2015 because these countries implemented the PISA 2009 assessment in 2010 as part of PISA 2009+.

Countries and economies are ranked in descending order of the percentage of students who had repeated a grade in 2015.

 $\textbf{Source:} \ \mathsf{OECD}, \ \mathsf{PISA}\ 2015\ \ \mathsf{Database}, \ \mathsf{Tables}\ \mathsf{II}.5.9, \ \mathsf{II}.5.10\ \ \mathsf{and}\ \ \mathsf{II}.5.11.$



Individual schools' admissions policies are only weakly related to students' performance in science.

Results from PISA 2015 suggest that, on average across OECD countries, the association between different school admissions criteria and student performance in science is modest, after accounting for students' and schools' socio-economic profile. For example, students attending schools that consider prior academic performance as a criterion for admission tend to score five score points higher on the science assessment than students enrolled in schools that never use this criterion, after accounting for socio-economic status. But score-point differences in performance related to this policy can be as large as 20 points or more in Austria, Beijing-Shanghai-Jiangsu-Guangdong (China) (hereafter "B-S-J-G [China]"), Hungary, Qatar, Tunisia and the United Arab Emirates (Table II.5.21). In Finland, Greece, Norway, Spain and Sweden, students' previous academic performance is rarely used for school admissions; in Croatia, Hong Kong (China), Japan, Macao (China), Singapore and Thailand, it is almost always considered (Table II.5.18). Residence as a criterion for admitting new students to school is particularly important in Greece, Norway, Poland and Switzerland, where at least 70% of students are in schools where residence is always considered.

How resources for education are allocated is just as important as the amount of resources available.

A first glance at PISA results gives the impression that students in high-income countries and economies – and countries/ economies that can and do spend more on education – perform better. High-income countries and economies (defined here as those with a per capita GDP above USD 20 000) have more resources to spend on education. These countries and economies cumulatively spend, on average, USD 87 292 on each student from age 6 to 15, while countries that are not considered to be in that group spend, on average, USD 28 071 per student (Tables II.6.58 and II.6.59).

On average, students in high-income countries and economies score 79 points higher in science than students in countries whose per capita GDP is below the USD 20 000 benchmark. Yet the relationship among a country's/economy's income per capita, its level of expenditure on education per student, and its PISA score is far more complex. Among the countries and economies whose cumulative expenditure per student is under USD 50 000, higher expenditure on education is strongly associated with higher PISA science scores. But this is not the case among high-income countries and economies, which include most OECD countries. It seems that for this latter group of countries and economies, factors other than the level of investment in education are better predictors of student performance.

Among these countries and economies, it is common to find some with substantially different levels of spending per student yet similar science scores. For example, Poland and Denmark score 501 and 502 points in science, respectively, but the cumulative expenditure per student in Denmark is more than 50% greater than that in Poland. Similarly, although countries and economies might have similar levels of expenditure on education, they can perform very differently. For example, while Iceland and Finland both spend roughly USD 100 000 per student from the age of 6 to 15, Iceland's science score in PISA 2015 is 473 points and Finland's score is 531 points (Figure II.6.2). Whatever the reason for the lack of a relationship between spending per student and learning outcomes, at least in the countries and economies with larger education budgets, excellence in education requires more than money.

Collaboration among teachers is positively associated with student performance.

Offering higher salaries for teachers can help school systems attract the best candidates to the teaching profession, and signal that teachers are regarded and treated as professionals. But paying teachers well is only part of the equation. The relationship between science performance and teachers' salaries relative to per capita national income is not statistically significant across PISA-participating countries and economies (Figure II.6.7). This finding suggests that other factors, such as the quality of teaching, may be more closely associated with students' performance at the system level. For example, if countries do not have enough resources to invest in education, paying relatively high salaries might attract good teachers, but it also might limit the number of teachers the system can afford, thus contributing to shortages of teaching staff.

Like practitioners in any other profession, teachers need to keep up-to-date with advances in their field. That requires participation in some form of professional development. Across OECD countries, almost all 15-year-old students (96%) are enrolled in schools where teachers in the school co-operate by exchanging ideas or material when teaching specific units or series of lessons. A great majority of students attends schools that invite specialists to conduct in-service training for teachers (80%), that organise in-service workshops that address specific issues facing the school (80%) or that organise in-service workshops for specific groups of teachers (69%) (Figure II.6.11). In general, in-house professional development activities are more frequently offered in advantaged than in disadvantaged schools, in urban than in rural schools, and in private than in public schools (Tables II.6.21, II.6.22, II.6.23 and II.6.24).



On average across OECD countries, only professional collaboration among teachers in the school is positively associated with student performance in science after accounting for the socio-economic profile of students and schools. When school principals reported that teachers co-operate by exchanging ideas or material, the average 15-year-old student in OECD countries scores 9 points higher in science; in Slovenia, the average student scores 36 points higher.

One of the most valuable resources for education is time. On average across OECD countries, and in three out of four education systems, students who spend more time in science lessons score higher in science, even after accounting for the socio-economic profile of students and schools.

PISA 2015 asked students to report the average number of minutes per class period, the total number of class periods per week, and the number of class periods for science, language-of-instruction and mathematics. Across OECD countries, students reported spending 26 hours and 54 minutes per week in lessons, of which 3 hours and 30 minutes per week are spent in science lessons, 3 hours and 36 minutes per week in language-of-instruction classes, and 3 hours and 38 minutes per week in mathematics lessons (Figure II.6.18).

Students in B-S-J-G (China), Chile, Costa Rica, Korea, Chinese Taipei, Thailand and Tunisia spend more than 30 hours per week in regular lessons (all subjects combined), while students in Brazil, Bulgaria, Finland, Lithuania, the Slovak Republic and Uruguay spend less than 25 hours per week. In B-S-J-G (China), Chile, Qatar, Russia, Singapore and the United Arab Emirates, 15-year-old students spend more than five hours in regular science lessons per week, while in Iceland, Ireland, Montenegro and Norway, they spend less than half of that time in science class. In Chile, Peru and Singapore, students spend more than five hours in regular mathematics lessons, whereas in Austria, Bulgaria, Croatia and Montenegro students spend less than half of that time in mathematics class. In Canada, Chile, Denmark and Hong Kong (China), 15-year-olds spend five hours per week in language-of-instruction classes, while students in Austria, Finland and Russia spend less than 2 hours and 30 minutes per week in these classes.

Even within individual school systems, the amount of learning time in regular lessons can vary considerably, especially across schools with different socio-economic profiles (Table II.6.36). Across OECD countries, students in advantaged schools spend 27 hours and 15 minutes per week in regular lessons, while students in disadvantaged schools spend 26 hours and 33 minutes per week. This difference is observed in 31 out of 56 countries for which data are available and exceeds 3 hours per week of extra instruction in advantaged schools in B-S-J-G (China), Chinese Taipei, the United States and Uruguay. Part of the reason for this difference could be that advantaged 15-year-old students are more likely to attend upper secondary schools, where there are more hours of intended learning time than in lower secondary schools.

On average across OECD countries, and in 14 out of 49 countries and economies, students in private schools spend more time in regular science lessons than students in public schools. In Brazil, Croatia and New Zealand, for instance, there is a difference, in favour of private schools, of more than 80 minutes per week (Figure II.6.19 and Table II.6.33).

PISA examined the relationship between the intended time in science, language-of-instruction and mathematics classes with student performance in the corresponding PISA assessment – science, reading and mathematics. On average across OECD countries, and in three out of four education systems, students who spend more time in science lessons score higher in science, even after accounting for the socio-economic profile of students and schools (Figure II.6.19). For every additional hour spent in science lessons, students in OECD countries score five points higher in science – and eight points higher before accounting for the socio-economic profile of students and schools (Table II.6.33).

Students score lower in the PISA assessment when they reported spending more time studying after school.

Across OECD countries, students spend 3.2 hours per week studying science after school, 3.8 hours studying mathematics, 3.1 hours studying the language of instruction, 3.1 hours studying a foreign language, and almost 4 hours studying other subjects (Figure II.6.20). All subjects combined, in B-S-J-G (China), the Dominican Republic, Qatar, Tunisia and the United Arab Emirates, students reported that they study more than 25 hours per week in addition to the required school schedule; in Finland, Germany, Iceland, Japan, the Netherlands, Sweden and Switzerland, they study less than 15 hours per week (Table II.6.41).

Across OECD countries, students in disadvantaged schools spend more time studying after school than students in advantaged schools – 18 hours compared to 17 hours per week (Figure II.6.21). In most education systems, these differences should be interpreted as a compensatory measure, whereby struggling students, who are more likely to come from a disadvantaged background, are offered the possibility to narrow the performance gap between them and their better-performing peers.



Probably greater attention to and support for students in disadvantaged schools is needed in Croatia, Italy, Japan, Korea, Macao (China) and Chinese Taipei: only in these countries and economies do students in advantaged schools spend more time studying after school, probably widening the performance gap between rich and poor students. If these differences are the result of private tutoring and a pervasive shadow education system, it could undermine the principle of quality (and free) education for all.

When it comes to learning time, more is not necessarily better.

By combining the total number of hours that students spend learning or studying in and outside of school, and their scores in science, reading and mathematics, it is possible to get a rough idea of how efficient students are in their learning. Of course, the learning time measured in this way cannot adequately capture the accumulated learning time during the entire academic life of students, but it does say something about how much time students across different countries generally devote to learning and studying.

The ratio between PISA scores and learning time in and outside of school (how many score points are related to each hour spent learning) does not necessarily reflect the efficiency of the education system. Students learn mainly at school and in studying for school, but they also learn by interacting with knowledgeable others, such as family members and peers. For these reasons, the ratios can be interpreted in various ways. They can be an indication of the quality of a school system; they can also be indicative of the differences in learning time across education levels. For example, 15-year-olds in some education systems may be compensating for (or reaping the benefits of) the time spent learning in earlier stages of their education. The ratio between learning time and PISA scores can also indicate that, to succeed academically, students in some education systems need to spend more time in "planned" or "deliberate" learning because they have fewer opportunities to learn informally outside of school. The low ratios between learning time and PISA scores observed in some countries and economies with high PISA scores can also signal decreasing returns to learning time or greater difficulty in attaining higher PISA scores.

According to this analysis, students in Finland, Germany, Japan and Switzerland devote less time to learning in relation to their PISA scores in science, while those in the Dominican Republic, Peru, Qatar, Thailand, Tunisia and the United Arab Emirates spend more time learning relative to their academic performance (Figure II.6.23). In the Dominican Republic, for instance, the ratio between the science score and total learning time – in and outside of school – is 6.6 score points per hour, while in Finland it is 14.7 score points per hour.

Across OECD countries, 15-year-old students in socio-economically advantaged schools had attended about four months more of pre-primary school than students in disadvantaged schools.

Most students in most education systems reported that they had attended pre-primary education. But in B-S-J-G (China), Croatia, Lithuania, Montenegro, Poland and the United States, at least 17% of students – and in Turkey, almost half of students – reported that they had never attended pre-primary school (Table II.6.50).

PISA has consistently shown that students who had attended pre-primary school for more than one year score higher than students who had attended for less time. Indeed, students who had attended between 2 and 3 years of pre-primary school score 35 points higher than students who did not attend and 50 score points higher than students who had attended less than one year, on average (Table II.6.52).

But PISA finds that disadvantaged students are more likely to have spent less time – if any time at all – in pre-primary school. In B-S-J-G (China), Croatia, the Dominican Republic, Lithuania, Poland and Russia, the difference between the two groups of students in time spent in pre-primary school is at least one year. There is no country/economy where students in disadvantaged schools had spent significantly more time in pre-primary education, even if students in disadvantaged and advantaged schools in Belgium, Iceland, Japan, Korea and Macao (China) show similar levels of attendance.

What PISA results imply for policy

Whether students are selected into academic programmes that offer little or no science instruction, or students themselves decide not to take science courses, depriving students of school science may only widen the gap with their better-performing peers. Every 15-year-old student should have the opportunity to learn science in school. But access to learning opportunities is only the beginning.

Students learn more in a positive learning environment, where they and their peers attend school regularly and treat other students with respect and dignity, teachers co-operate with each other and support struggling students, school principals



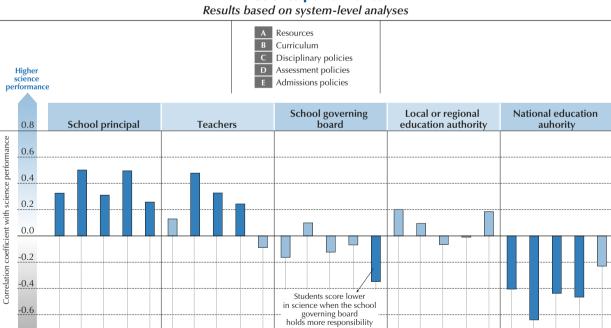
react swiftly to behaviour and academic problems, parents participate in a range of school activities, and governments provide assistance to schools with serious student-behaviour problems.

Giving schools greater control over budgetary, staffing and instructional matters has been advocated on the grounds that local actors understand their students' needs better than higher administrative bodies. PISA 2015 offers a nuanced picture of the relationship between greater school autonomy and students' performance, which seems to depend not only on the particular areas of school management delegated to principals and teachers, but also on how these areas are related to certain accountability measures and to the capacity of local actors.

In particular, students score higher in science when principals exercise greater autonomy over resources, curriculum and other school policies (Figure II.1.4), but especially so in countries where achievement data are tracked over time or posted publicly or when principals show higher levels of educational leadership. To some degree, these findings also suggest that when principals lack the preparation and capacity to exercise leadership, transferring authority to schools may inadvertently work against students, since school staff might then be deprived of the resources and expertise available at higher levels of the system. Students also score higher in science in countries where more teachers have autonomy over the curriculum. This finding underscores the importance of tapping into teachers' expertise.

The most successful education systems select the best candidates for the teaching profession, retain qualified teachers and ensure that they are constantly improving by participating in professional development activities. In these systems, education and the teaching profession are greatly valued by society, teachers are adequately compensated, the teaching career is transparent and clearly structured, teachers are given many opportunities – and encouragement – to learn, and they receive feedback on their teaching regularly, such as through mentoring programmes organised by schools.

Figure II.1.4 • Correlations between the responsibilities for school governance¹ and science performance



for admissions policies

1. The responsibilities for school governance are measured by the share distribution of responsibilities for school governance in Table II.4.2. **Notes:** Results based on 70 education systems.

A B C D E A B C D E A B C D E A B C D

Statistically significant correlation coefficients are shown in a darker tone (see Annex A3).

Source: OECD, PISA 2015 Database.

-0.8

Lower science performance

StatLink http://dx.doi.org/10.1787/888933435864

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E A B C D E

OVERVIEW: POLICIES AND PRACTICES FOR SUCCESSFUL SCHOOLS



PISA results show that more inclusive and fairer school systems are those that provide access to quality early education for all children, offer additional support to struggling students, rather than require them to repeat grades, and delay the age at which students are selected into different programmes or schools. These systems also strive to have excellent schools located in every neighbourhood and ensure that they are accessible to all students, and provide additional support to disadvantaged schools. Students in disadvantaged schools need to learn as much as they can while at school. This means spending more time in regular lessons with better teaching, which is what their counterparts in advantaged schools already enjoy. These schools also need to ensure that the time their students spend studying after school is more productive, by providing greater support in the form of tutoring, mentoring or remedial lessons, for example, and combining this additional learning time with enriching extracurricular activities.



How schools and teaching practices shape students' performance in and dispositions towards science

This chapter focuses on the opportunity to learn science at school, the school resources devoted to science, and how science is taught in schools. It discusses how these are related to student performance in science, students' epistemic beliefs, and students' expectations of pursuing a career in science. The opportunity to learn science includes the attendance at science courses and the choice of school science courses. The school resources examined include the quality and availability of science laboratories, the qualifications of the science teaching staff, and the availability of science-related extracurricular activities. The methods for teaching science discussed in the chapter include teacher-directed instruction, feedback, adaptive instruction and enquiry-based instruction.

A note regarding Israel

The statistical data for Israel are supplied by and under the responsibility of the relevant Israeli authorities. The use of such data by the OECD is without prejudice to the status of the Golan Heights, East Jerusalem and Israeli settlements in the West Bank under the terms of international law.



Many of the scientific principles and theories that 15-year-olds are familiar with were learned at school. As with any other subject, the way science is taught in school can influence not only whether students do well in science, but also whether they become interested enough in the subject to want to pursue it later on, in further education or in a career. Given the expected growth in science-related employment worldwide (Langdon et al., 2011; Royal Academy of Engineering, 2012) and the declining interest in science as students progress through school (Galton, 2009; Vedder-Weiss and Fortus, 2011), it is important to examine why some students are better prepared for and more interested in science-related careers than others. This means analysing in detail the opportunity to learn science at school, the resources available to the science department, such as laboratories, science teachers and science activities, and the way science is taught at school.

What the data tell us

- The approximately 6% of students across OECD countries who reported not attending any regular science lessons score 25 points lower than students who reported attending at least one science lesson, after accounting for the socio-economic profile of students and schools. In 34 school systems, particularly in Austria, Belgium, Croatia, France, Germany, the Slovak Republic and Chinese Taipei, the students who reported not attending regular science lessons are more likely to attend socio-economically disadvantaged schools than advantaged schools.
- On average across OECD countries, students score higher in science, show stronger epistemic beliefs and are
 more likely to expect to pursue a science-related career when their school principals reported that the science
 department in the school is well-equipped and staffed.
- Across OECD countries, socio-economically advantaged schools are considerably more likely to offer science competitions and a science club as school activities than disadvantaged schools.
- How much time students spend learning and how science is taught are more strongly associated with science
 performance and the expectations of working in a science-related career than how well-equipped and -staffed
 the science department is, which extracurricular science activities are offered at school and science teachers'
 qualifications.
- According to students' reports, and on average across OECD countries, teachers in advantaged schools explain
 or demonstrate a scientific idea (teacher-directed instruction) more frequently than do teachers in disadvantaged
 schools. Students who reported that their science teachers frequently use these methods and adapt their teaching
 to meet students' needs score higher in science, show stronger epistemic beliefs and are more likely to expect to
 pursue a science-related career than students who reported that their teachers use these methods less frequently.

This chapter examines the opportunity to learn science, the science-related educational resources and teaching practices at school (Figure II.2.1) and how they shape students' performance in science, their beliefs about the nature and origin of science knowledge (known as epistemic beliefs) and their expectations of working in a science-related career. The chapter concludes with in-depth analyses of how students perform in science compared with reading and mathematics, and students' expectations of working in science-related occupations. These analyses also consider students' learning time, teachers' participation in professional development activities, and teacher support in science classes, all of which are analysed in greater detail in other chapters.

Epistemology is the theory of the nature, organisation, justifications and sources of human knowledge; in other words, the theory of what knowledge is, how it is acquired and how people know that they have acquired it (BonJour, 2002; Hofer and Pintrich, 1997). PISA 2015 asked students to answer questions about their beliefs about science, including the extent to which they are positively disposed towards scientific reasoning, committed to using empirical evidence as the basis of beliefs, and value critical thinking as a means of establishing the validity of ideas (Table II.2.1; see Volume I for more details). PISA 2015 also asked students about the occupation they expected to be working in by the time they are 30 years old. To measure the extent to which students are open to the idea of pursuing a science-related career in the future, their responses were grouped into major categories of such careers (Table II.2.2; see Volume I for more details).

Figure II.2.2 shows the countries that scored above the OECD average in PISA 2015 in each of these three dimensions: students' performance in science, the level of students' support for scientific approaches to enquiry (their epistemic beliefs), and the share of students who expect to pursue a career in science. The countries with values above the OECD average in all three dimensions are indicated in the centre of the diagram.



Figure II.2.1 ■ Science at school as covered in PISA 2015

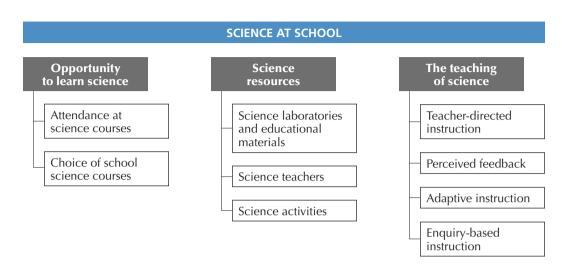
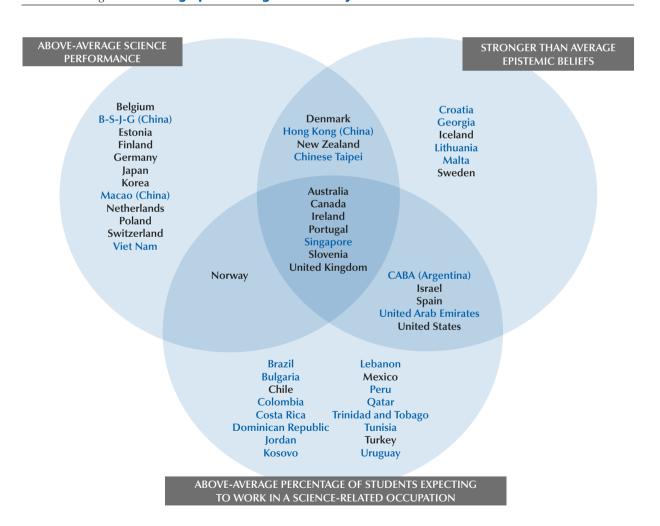


Figure II.2.2 • High-performing education systems in science-related outcomes



Note: Average refers to the OECD average for each outcome. Only countries and economies with values above the OECD average are shown. Source: OECD, PISA 2015 Database, Tables I.2.3, I.2.12a and II.2.2.



The amount and quality of resources (material, human, time) that countries, schools, families and students invest in teaching and learning science play a major role in how well students perform, their level of understanding of how science works, and how interested they may be in working in a science-related career later on. Figure II.2.3 shows how the seven highest-performing countries identified in Figure II.2.2 compare to the OECD average on some key school-resource indicators: the science department and learning time, teaching staff, approaches to science teaching and extracurricular activities. All of these countries score near or above average on most of the resources and practices listed. The figure also underlines the different combinations of resources and practices that are associated with these countries' success.

Figure II.2.3 • Key information about high-performing education systems in science-related outcomes

in science-related outcomes												
Statistically significantly above the OECD average Not statistically significantly different from the OECD average Statistically significantly below the OECD average												
The science department and learning time Percentage of students in schools whose principal reported that the following statements are true for the school's science department:	OECD average	Canada	Australia	Portugal	Singapore	United Kingdom	Ireland	Slovenia				
The school science department is well-equipped compared to other departments	74%	93%	94%	90%	95%	86%	94%	76%				
Science teachers are among our best-educated staff members	65%	73%	69%	61%	75%	69%	85%	49%				
Compared to similar schools, we have a well-equipped laboratory	62%	88%	88%	78%	88%	78%	84%	80%				
Average time per week spent learning in regular science lessons, in hours	3.5	4.8	3.5	3.7	5.5	4.7	2.4	3.5				
Average time per week spent studying science after school (e.g. homework, extra instruction), in hours	3.2	4.4	3.4	3.2	5.6	3.7	2.7	3.0				
Teaching staff												
Percentage of science teachers with a university degree and a major in science	74%	81%	93%	88%	89%	93%	91%	90%				
Percentage of science teachers who attended a programme of professional development	51%	74%	83%	37%	81%	80%	51%	48%				
Approaches to teaching science Percentage of students who reported that the following things happen in their science lessons:												
Teacher explains scientific ideas (every or almost every lesson)	24%	39%	33%	39%	31%	32%	22%	27%				
Teacher adapts the lesson to my class's needs and knowledge (every or almost every lesson)	16%	18%	17%	29%	20%	16%	13%	10%				
Teacher explains how a science idea can be applied to a number of different phenomena (in all lessons)	23%	33%	27%	29%	19%	21%	25%	16%				
Teacher tells me how I am performing in this course (at least in some lessons)	73%	85%	77%	75%	86%	85%	76%	66%				
Students spend time in the laboratory doing practical experiments (at least in some lessons)	67%	87%	86%	80%	88%	81%	90%	82%				
Extracurricular activities												
Percentage of students in schools offering the following science-related activities: Science club	39%	57%	38%	57%	42%	79%	35%	52%				
Science competitions	66%	76%	91%	89%	89%	79%	65%	87%				
Science-related outcomes	00 /0	7 0 70	9170	0.570	0.570	1 / 2 /0	1 03 /0	07 70				
Mean score in science	493	528	510	501	556	509	503	513				
Index of epistemic beliefs	0.00	0.30	0.26	0.28	0.22	0.22	0.21	0.07				
Percentage of students expecting to work in science-related occupations at age 30	24%	34%	29%	27%	28%	29%	27%	31%				

Source: OECD, PISA 2015 Database, Tables I.2.3, I.2.12a, II.2.2, II.2.5, II.2.8, II.2.11, II.2.16, II.2.19, II.2.22, II.2.26, II.6.17, II.6.32 and II.6.37. StatLink | III.2.16 | http://dx.doi.org/10.1787/888933435461

OPPORTUNITY TO LEARN SCIENCE AT SCHOOL

Inequalities in the opportunity to learn, which can be defined as the opportunity to "study a particular topic or learn how to solve a particular type of problem" (Husen, 1967), are mainly reflected in the time education systems, schools and teachers allocate to learning (Carroll, 1963). If time is a necessary condition for learning, students who do not attend science lessons are probably those who enjoy the fewest opportunities to acquire competencies in science.

PISA 2015 asked students how many regular science lessons they were required to attend per week. As expected, most 15-year-old students said they were required to attend at least one science lesson per week. On average across OECD countries, 94% of students reported that they attend at least one science course per week (Table II.2.3). However, there are still 6% of students who said that they are not required to attend any science lesson.

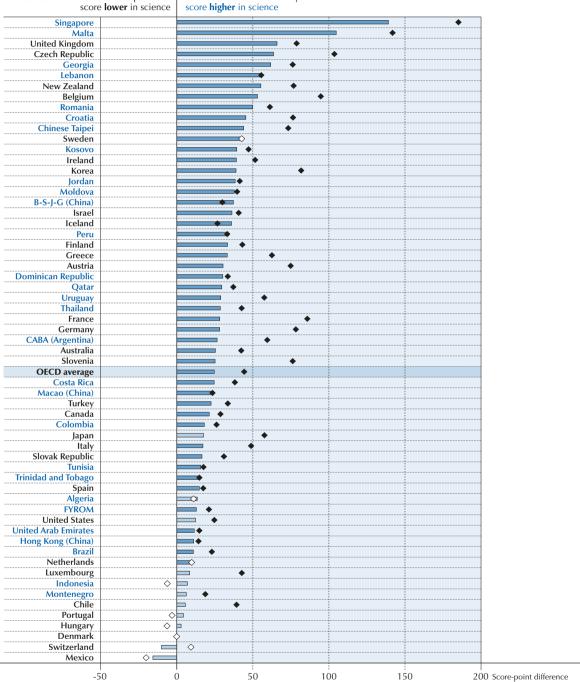


Figure II.2.4 • Attendance at regular science lessons, and science performance

Results based on students' reports

♦ Before accounting for students' and schools' socio-economic profile¹
 ■ After accounting for students' and schools' socio-economic profile

Students who are required to attend at least one science course per week score **lower** in science Students who are required to attend at least one science course per week score **higher** in science



1. The socio-economic profile is measured by the PISA index of economic, social and cultural status.

Note: Statistically significant differences are marked in a darker tone (see Annex A3).

Countries and economies are ranked in descending order of the score-point difference between students who are required to attend a science course and students who are not, after accounting for students' and schools' socio-economic profile.

Source: OECD, PISA 2015 Database, Table II.2.3.

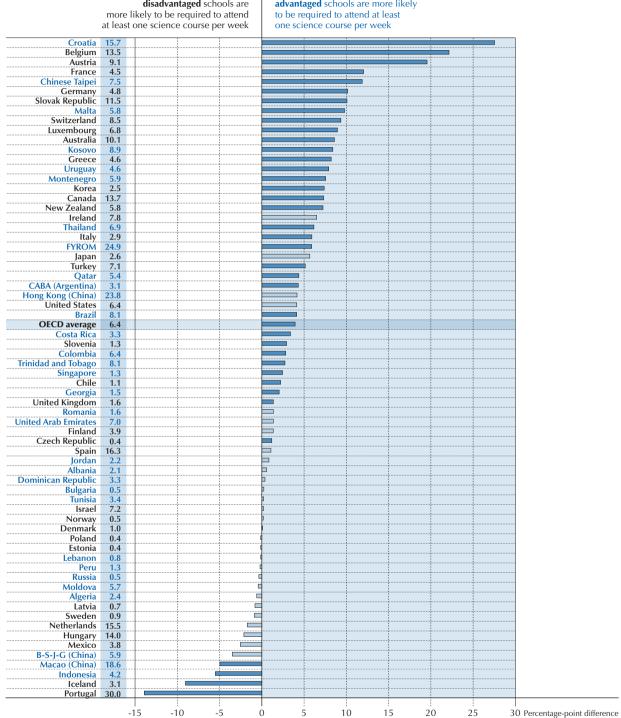


Figure II.2.5 • Differences in the requirement to attend regular science lessons, by schools' socio-economic profile

Results based on students' reports



Students in socio-economically advantaged schools are more likely



Notes: Statistically significant differences are marked in a darker tone (see Annex A3).

The percentage of students who are not required to attend any science course is shown next to the country/economy name.

Countries and economies are ranked in descending order of the percentage-point difference between students in socio-economically advantaged and disadvantaged schools who are required to attend at least one science course per week.

Source: OECD, PISA 2015 Database, Tables II.2.3.



Across OECD countries, students who are not required to attend science lessons score 25 points lower in science than students who are required to attend at least one science lesson per week, after accounting for the socio-economic status of students and schools. The largest differences, before accounting for the socio-economic profile of students and schools, are observed in Singapore, Malta and the Czech Republic, where students who reported that they are not required to attend any science lessons score more than 100 points lower in science than students who reported that they do attend science lessons (Figure II.2.4). Even if their poor performance in science is one of the reasons why these students do not take science courses in the first place – in some education systems, for instance, students can take mainly social sciences and humanities courses in secondary education – these findings indicate the extent to which student performance in science may suffer when students do not attend science classes.

More importantly, students who reported not attending school science classes are more likely to be in schools that are socio-economically disadvantaged (Figure II.2.5) (see Box II.2.1 for a definition of advantaged and disadvantaged schools). On average across OECD countries, students in disadvantaged schools are four percentage points less likely than students in advantaged schools to be required to attend at least one science course. In some education systems, mainly those with early tracking and large between-school differences in performance, such as Austria, Belgium, Croatia, Germany, the Slovak Republic and Switzerland (see Chapter 5), the differences are even larger. Being deprived of science courses in school will not help disadvantaged students close the performance gap with their advantaged peers.

Box II.2.1. How PISA defines socio-economically advantaged and disadvantaged schools

All schools in each PISA-participating education syastem are divided into four groups with approximately an equal number of students (quarters), based on the PISA index of economic, social and cultural status (ESCS). Schools in the bottom quarter of ESCS are classified as disadvantaged schools, and schools in the top quarter of ESCS are classified as advantaged schools.

Choice of school science courses

Educators debate how much freedom students should be given to choose what they learn. On the one hand, it is important that students "own" their learning and find ways to pursue their interests and talents. On the other hand, school systems need to ensure that all students acquire strong foundation skills, particularly in core subjects, like science, on which they can later build. Opting out of difficult subjects or courses shuts doors to knowledge that could be of interest – and of use – in the future.

Education systems differ in the extent to which students can choose the science courses they attend, and the courses' level of difficulty and duration (Table II.2.4). In most education systems, students' choices are limited; on average across OECD countries, more than six in ten students have no choice regarding their science courses. In a few education systems, however, there is ample choice. For instance, in Australia, Canada, Hong Kong (China),³ Ireland, New Zealand and Singapore, more than one in four students reported that they can choose freely the science course(s) they take. In Canada and Ireland, one in three students can also choose freely the course's level of difficulty; and in Canada, one in five students can freely decide the number of science courses or class periods they attend.

Many more students across OECD countries reported that they have some say, as opposed to full freedom, about the science courses they attend (25%), the level of difficulty (26%) or duration of those courses (17%). As expected, on average across OECD countries, students in lower secondary education are less likely to be given the freedom to choose their science courses. For example, 66% of lower secondary students cannot choose at all the science courses they attend, whereas 51% of upper secondary students have some degree of choice. There are smaller differences between the two levels of education when it comes to students choosing the duration or the difficulty of the courses.

SCIENCE RESOURCES AT SCHOOL

Compared with teachers of other school subjects, such as literature, mathematics or geography, science teachers often use expensive and sophisticated equipment in their lessons, particularly if students are expected to participate in laboratory work. At the same time, teachers often mention a lack or inadequacy of resources, in addition to large classes, a lack of time, and safety issues, as barriers to incorporating enquiry-based learning in their lessons (Cheung, 2007; Hofstein and

HOW SCHOOLS AND TEACHING PRACTICES SHAPE STUDENTS' PERFORMANCE IN AND DISPOSITIONS TOWARDS SCIENCE



Lunetta, 2004; Lawson, Costenson and Cisneros, 1986). If students are given sufficient time for reflection and connect their experiments with what they have learned earlier, and if teachers find meaningful ways of assessing their students' laboratory work, conducting experiments can motivate students and improve their understanding of the nature of science (Gunstone and Champagne, 1990; Hofstein and Lunetta, 2004; Tobin, 1990; Yung, 2001). Virtual experiments are often mentioned as a cheaper and safer alternative to physical manipulation; but even if some studies have shown that the two are equally effective in promoting conceptual understanding of science (Zacharias and Olympiou, 2011), real experiments may instil greater motivation in students (Corter et al., 2011).

PISA asked school principals to provide information about the resources available to their school's science department. They were asked if the following eight statements about the science department were true: "Compared to other departments, our science department is well equipped"; "If we ever have some extra funding, a big share goes into improvement of our science teaching"; "Science teachers are among the best-educated staff members"; "Compared to similar schools, we have a well-equipped laboratory"; "The material for hands-on activities in science is in good shape"; "We have enough laboratory material that all courses can regularly use it"; "We have extra laboratory staff that helps support science teaching"; and "Our school spends extra money on up-to-date school science equipment". The index of science-specific resources describes the number of the above questions that the school principal reported to be true for his or her school's science department.

Most school principals in OECD countries reported that the science department is well-equipped and -staffed (Table II.2.5). For example, about three in four principals reported that their science department is well-equipped compared to other school departments or that the material for hands-on activities for science is in good shape; two out of three reported that the school had enough laboratory material that all courses could regularly use it; and around two out of three reported that science teachers were among the best-educated staff members. But only 34% of principals reported that extra laboratory staff is available to support science teaching, and only 39% of principals reported that their school uses a large share of extra funding for improving science teaching. Of course, school principals' judgements may be based on very different benchmarks, usually influenced by their local or national context, so their responses should be interpreted with caution.

There are also wide differences between countries – differences that are not always related to spending on education or science performance. For instance, in Japan, only 31% of students attend schools whose principal considered that the material for hands-on activities for science is in good shape, and only 30% attend schools whose principals reported that there is enough laboratory material that all courses could regularly use it. Principals in the Czech Republic, Finland, Greece and the Slovak Republic reported that there is almost no extra laboratory staff to support science teaching. By contrast, principals in Malta, Qatar and the United Arab Emirates reported that the science department is well-equipped and -staffed in almost every respect, and is given priority over other departments when there is extra funding (Table II.2.5).

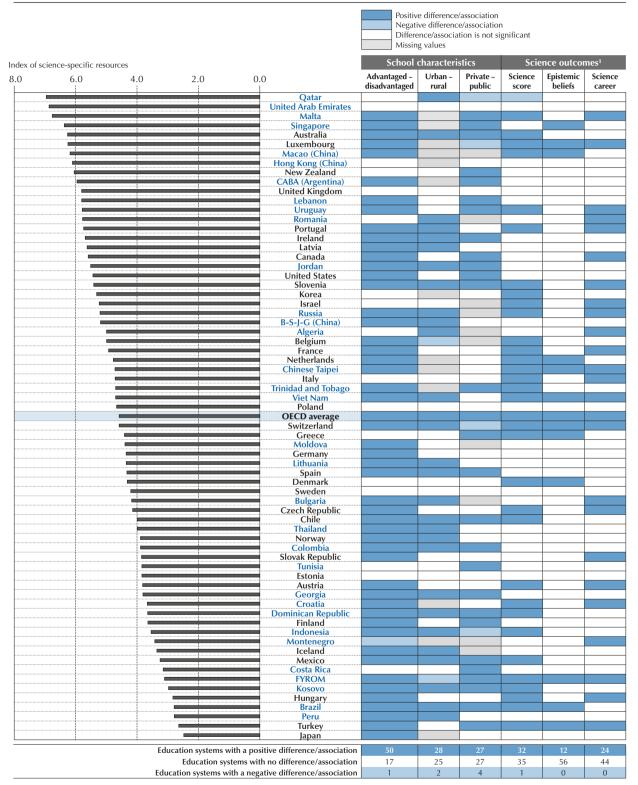
The analysis of the index of science-specific resources in PISA-participating education systems shows consistent differences related to schools' socio-economic profile, school location and school type (Figure II.2.6 and Table II.2.6). For example, on average across OECD countries, principals in socio-economically disadvantaged schools reported that four of the eight positive statements about the resources of the science department are true, whereas principals in advantaged schools reported that five of the eight positive statements are true. Large differences in favour of advantaged schools are observed in Indonesia, Mexico and Chinese Taipei. Only in Montenegro did principals of disadvantaged schools report more frequently than principals of advantaged schools that the science departments in their schools are well-equipped and -staffed.

Principals in urban schools tended to report better resources for the science department than principals in rural schools (Figure II.2.6 and Table II.2.6) (see Box II.2.2 for a definition of urban and rural schools). The largest differences between rural and urban schools (in favour of urban schools) are observed in Chile, Indonesia and Mexico. Overall, private schools are better-equipped and -staffed than public schools (see Box II.2.3 for a definition of public and private schools). The largest differences between the two types of schools (in favour of private schools) in resources available to science departments are observed in the Former Yugoslav Republic of Macedonia (hereafter "FYROM"), Kosovo and Turkey. In Indonesia, Luxembourg, Qatar and Switzerland, science departments in public schools are better-equipped and -staffed than those in private schools.



Figure II.2.6 - Science-specific resources, school characteristics and science outcomes

Results based on school principals' reports



^{1.} After accounting for the PISA index of economic, social and cultural status of students and schools.

Note: See Annex A7 for instructions on how to interpret this figure.

Countries and economies are ranked in descending order of the index of science-specific resources.

Source: OECD, PISA 2015 Database, Table II.2.6.



Box II.2.2. How PISA defines urban and rural schools

PISA asked school principals which of the following definitions best describes the community in which their school is located:

- A village, hamlet or rural area (fewer than 3 000 people)
- A small town (3 000 to about 15 000 people)
- A town (15 000 to about 100 000 people)
- A city (100 000 to about 1 000 000 people)
- A large city (with over 1 000 000 people)

Rural schools are those where the principal answered "a village, hamlet or rural area", whereas urban schools are those where the principal answered either "a city" or "a large city".

Box II.2.3. How PISA defines public and private schools

Schools are classified as either public or private, according to whether a private entity or a public agency has the ultimate power to make decisions concerning its affairs (Question SC013). Public schools are managed directly or indirectly by a public education authority, government agency, or governing board appointed by government or elected by public franchise. Private schools are managed directly or indirectly by a non-government organisation, such as a church, trade union, business, or other private institution.

On average across OECD countries, students in schools whose principals reported a well-equipped and well-staffed science department generally perform better in science – by about three score points for every positive statement the school principal reported as true – after accounting for the socio-economic profile of students and schools (Table II.2.6). But having a well-equipped and well-staffed science department is less strongly related to students' beliefs about the nature of scientific knowledge and how it is acquired. In only 12 countries and economies do students hold stronger epistemic beliefs when the science department in their school is well-equipped and -staffed (Figure II.2.6). In 24 education systems, students in schools whose principal reported that the science department enjoys more resources were more likely to report that they expect to work in a science-related occupation in the future.

Among the individual questions on resources asked of principals, equipping the science department and laboratories adequately (compared to other school departments and to similar schools), and having materials for hands-on activities that are in good shape are most strongly associated with student performance, after accounting for the socio-economic status of students and schools (Figure II.2.7). On average across OECD countries, students in schools whose principal reported the material for hands-on activities in science is in good shape, score nine points higher on the PISA science assessment. Principals' reports that the school's science teachers are among the best-educated staff members show the weakest association with student performance in science.

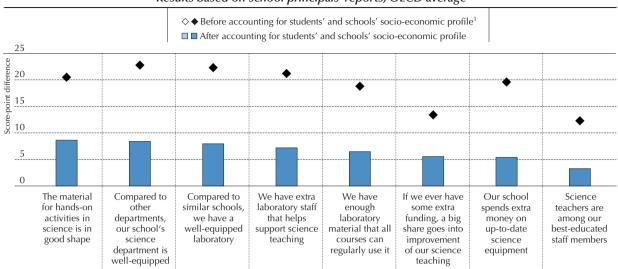
Science teaching staff

Since the quality of learning cannot exceed the quality of teaching, science teachers are an essential resource for learning science. The type and quality of the training teachers receive, and the requirements to enter and progress through the teaching profession, can have a significant impact on the quality of teaching. It is difficult to assess the quality of teachers and teaching but, to this end, PISA asked school principals to report on the composition and qualifications of the science teachers in their schools. More specifically, principals were asked how many science teachers had been fully certified – having earned the credentials to teach – by an appropriate authority, and how many science teachers had a university degree with a major in science. In most OECD countries, teachers are required to have earned a university degree and been certified by an education authority; however, many teachers who have earned a university degree do not always need a specific or additional licence to teach, and some fully certified teachers may not have earned a university degree.



Figure II.2.7 ■ Science-specific resources at school and science performance

Results based on school principals' reports, OECD average



1. The socio-economic profile is measured by the PISA index of economic, social and cultural status.

Note: All differences are statistically significant (see Annex A3).

Source: OECD, PISA 2015 Database, Table II.2.7.

StatLink http://dx.doi.org/10.1787/888933435507

According to school principals, most of the science teachers in their schools have some form of certification or qualification. Across OECD countries, 84% of science teachers are fully certified and 74% have a university degree with a major in science (Table II.2.8). The percentage of certified science teachers varies from virtually all teachers in some education systems, including those in Bulgaria, Japan, Lithuania, Macao (China) and Romania, to less than 40% in Chile, Colombia, Georgia and Mexico. Similarly, the percentage of science teachers with a university degree and a major in science ranges from more than 95% of teachers in Bulgaria, Costa Rica and Montenegro, to less than 25% in Italy, Peru and Uruguay.

In 20 PISA-participating education systems, advantaged schools have a larger proportion of fully certified science teachers than disadvantaged schools, particularly those in Austria, France and Indonesia (Table II.2.9). In 11 education systems, private schools have a larger proportion of fully certified science teachers than public schools. This difference is particularly striking in the United Arab Emirates and Viet Nam, where there is a 15 percentage-point difference, at least, between private and public schools in the percentage of fully certified science teachers. In 12 countries and economies public schools have a larger proportion of certified science teachers than private schools, particularly so in Costa Rica, FYROM, Indonesia, Italy, and Qatar.

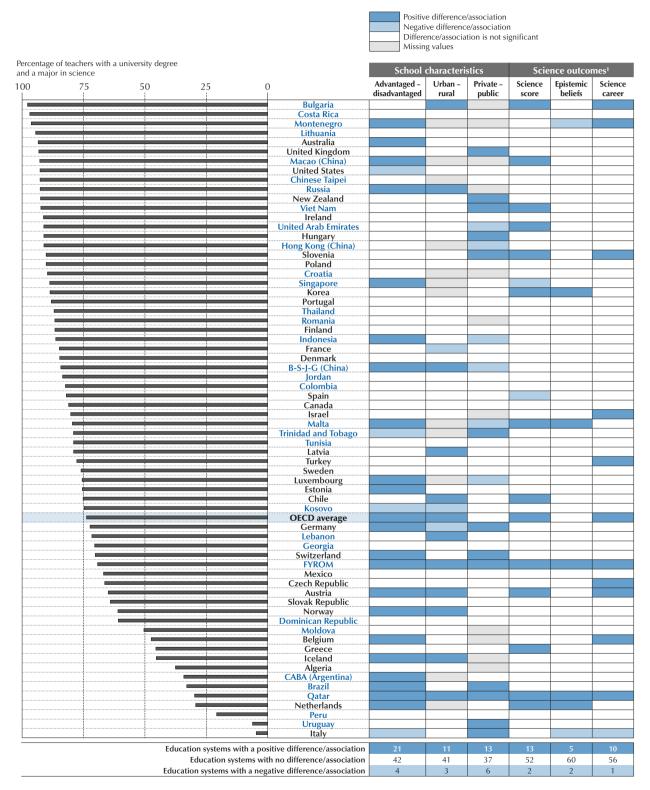
In most education systems, the proportion of fully certified science teachers shows no association with student performance in science (Table II.2.9). Across OECD countries, for every ten percentage-point increase in the number of fully certified science teachers, students' performance in science improves by only 1.2 score points, after accounting for students' and schools' socio-economic profile. The relationship between the proportion of fully certified science teachers and students' epistemic beliefs and their expectation to work in a science-related career appears to be even weaker, given the few countries and economies where there is a relationship. These findings are consistent with some empirical studies showing that teacher certification alone does not automatically raise student achievement (Goldhaber and Brewer, 2000).

Results are similar for the percentage of science teachers with a university degree and a major in science (Figure II.2.8). In most education systems, the proportion of qualified science teachers is similar across all types of schools. However, on average across OECD countries, there are more qualified teachers in advantaged than in disadvantaged schools and in urban than in rural schools. The largest differences between advantaged and disadvantaged schools are observed in Austria, Ciudad Autónoma de Buenos Aires (Argentina) (hereafter "CABA [Argentina]"), the Netherlands and Switzerland, most of which are education systems with early tracking – students are selected into different curricular paths at the age of 10 or 12 (Figure II.5.8) – and considerable between-school differences in performance (Figure II.5.12). How students are selected and grouped across education systems is discussed at length in Chapter 5.





Results based on students' self-reports



^{1.} After accounting for the PISA index of economic, social and cultural status of students and schools.

Countries and economies are ranked in descending order of the percentage of science teachers with a university degree and a major in science. Source: OECD, PISA 2015 Database, Table II.2.10.



On average across OECD countries and in 13 countries and economies, students score higher in science when there is a larger proportion of science teachers with a university degree and a major in science in their schools (Figure II.2.8 and Table II.2.10). In the Netherlands and Qatar, for example, a ten percentage-point increase in the number of science teachers with a university degree and a major in science is associated with an improvement of almost eight score points in science performance, after accounting for the socio-economic profile of both students and schools. However, in most education systems, the percentage of teachers with a university degree and science scores are not related, which is consistent with previous studies showing that just having highly qualified teachers is usually not enough to improve student performance (Hanushek, Piopiunik and Wiederhold, 2014; Palardy and Rumberger, 2008). Similarly, across OECD countries, having a larger proportion of qualified teachers does not necessarily translate into stronger epistemic beliefs among the students in a school, and is only weakly linked to students' expectation to work in a science-related occupation when they are 30.

Extracurricular science activities

Laboratories and experiments are not the only ways through which schools can engage students in learning science. Schools can organise field trips, visits to museums, laboratories or zoos, or can encourage students to participate in science clubs and competitions. These extracurricular activities can help students understand scientific concepts, raise interest in science and even nurture future scientists (Bellipanni and Lilly, 1999; Huler, 1991). Students who participate in science competitions, for instance, show a genuine interest in learning science (Abernathy and Vineyard, 2001; Czerniak and Lumpe, 1996), and both boys and girls develop the desire to understand scientific phenomena (Höffler, Bonin and Parchmann, 2016). Some experts argue that science clubs can also foster greater interest in science by emphasising the fun aspect of school science, especially among minority groups (Thomas, 1986; Yaakobi, 1981).

Principals were asked if their school offers a science club and science competitions at the school. Across OECD countries, 39% of students are enrolled in schools that offer a science club and 66% attend schools that offer science competitions (Figure II.2.9). Science clubs are most commonly offered in East Asian countries and economies. For example, in Beijing-Shanghai-Jiangsu-Guangdong (China) (hereafter "B-S-J-G [China]"), Hong Kong (China) and Korea, more than 90% of students attend schools that offer science clubs. Science competitions, by contrast, are most frequently offered in several Eastern European countries, including Estonia, Hungary, Lithuania, Moldova, Poland and the Russian Federation (hereafter "Russia"), where more than 90% of students attend schools that offer these science activities.

On average across OECD countries, advantaged schools offer science clubs and competitions more often than disadvantaged schools do (Table II.2.12 and Table II.2.13). For example, while 53% of students enrolled in disadvantaged schools are offered science competitions, 78% of students in advantaged schools are offered this activity (Figure II.2.10). In 41 of 69 PISA-participating countries and economies, students attending advantaged schools are offered science competitions more frequently than students attending disadvantaged schools. The largest differences are observed mainly in education systems with early tracking, including Austria, Germany, Luxembourg, the Netherlands and Switzerland.

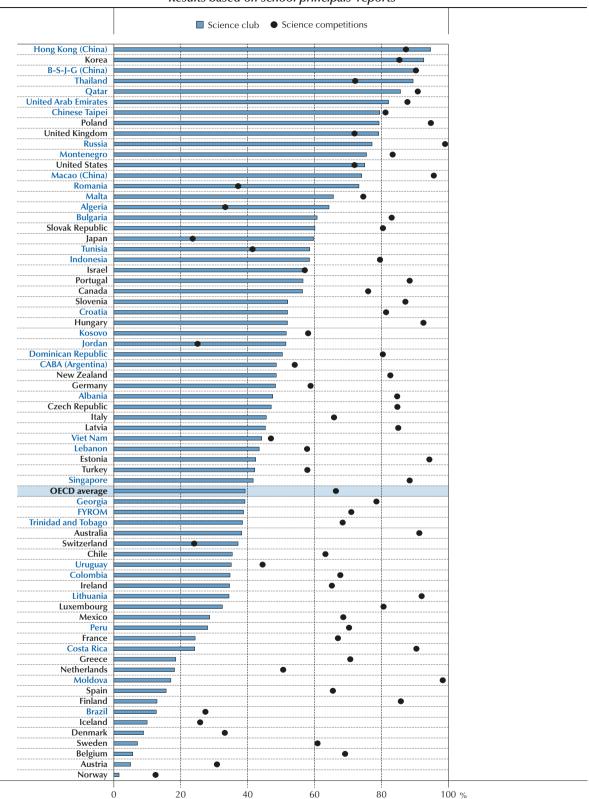
These large differences suggest than low-performing students in these education systems may have fewer opportunities to acquire scientific competencies, such as by participating in science-related extracurricular activities, than top-performing students. On average across OECD countries, students in schools that offer science competitions score 36 points higher in science (12 points higher after accounting for students' and schools' socio-economic profile) and 21 points higher if the school offers a science club (6 points higher after accounting for students' and schools' socio-economic profile) (Figure II.2.11 and Table II.2.12). The largest differences in performance between students who are offered extracurricular science-related activities and those who are not are observed in the Netherlands and Chinese Taipei. For example, in the Netherlands, students who are offered science competitions score 97 points higher in science than students who are not offered these activities (after accounting for the socio-economic status of students and schools, the former group of students scores 43 points higher). Having access to a science club in Chinese Taipei is associated with scoring 60 score points higher on the PISA science assessment, and 22 score points after accounting for socio-economic status.

Across OECD countries, students who attend schools that offer science-related extracurricular activities hold stronger epistemic beliefs, such as believing that scientific ideas sometimes change or that evidence comes from experiments. In 18 education systems, particularly those in Korea, Montenegro and Thailand, students in schools that offer a science club are more likely to expect to work in science-related occupations, after accounting for the socio-economic status of students and schools (Table II.2.12). In 23 education systems, students in schools that offer science competitions are also more likely to expect to work in a science-related occupation when they are 30 (Table II.2.13).



Figure II.2.9 • Science-related extracurricular activities offered at school

Results based on school principals' reports



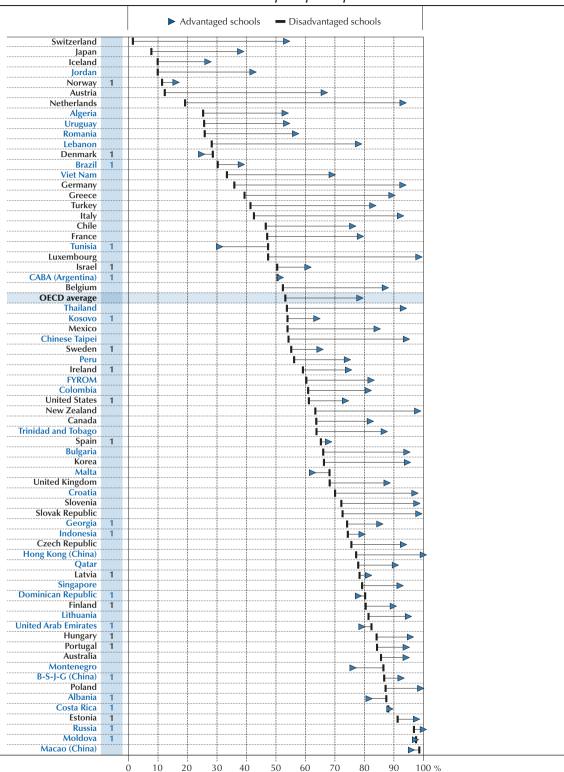
Countries and economies are ranked in descending order of the percentage of schools offering a science club.

Source: OECD, PISA 2015 Database, Table II.2.11.



Figure II.2.10 • Science competitions offered at school, by schools' socio-economic profile

Results based on school principals' reports



1. Differences between advantaged and disadvantaged schools are not statistically significant (see Annex A3).

Countries and economies are ranked in ascending order of the percentage of students in disadvantaged schools who are offered science competitions at school.

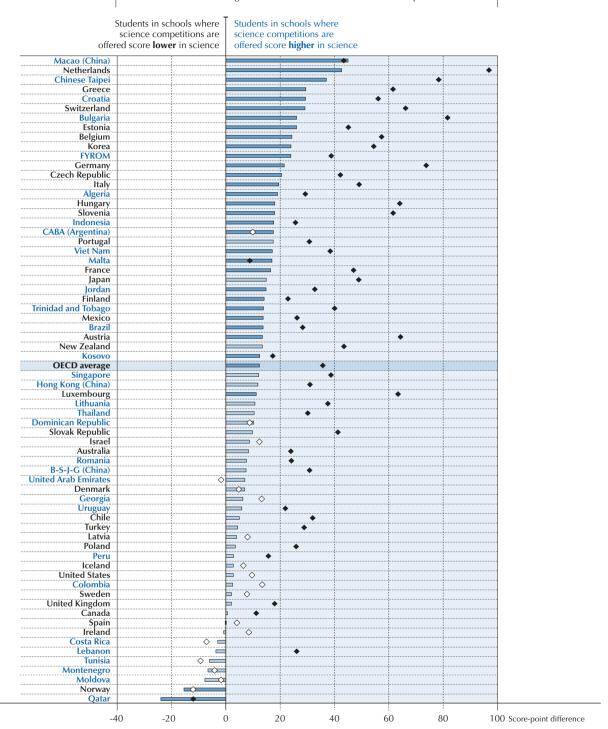
Source: OECD, PISA 2015 Database, Table II.2.13.



Figure II.2.11 • Science competitions offered at school and science performance

Results based on school principals' reports

- $\diamond lacktriangleleft$ Before accounting for students' and schools' socio-economic profile¹
- ■ After accounting for students' and schools' socio-economic profile



^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status.

Note: Statistically significant differences are marked in a darker tone (see Annex A3).

Countries and economies are ranked in descending order of the score-point difference when science competitions are offered at school, after accounting for students' and schools' socio-economic profile.

Source: OECD, PISA 2015 Database, Table II.2.13.



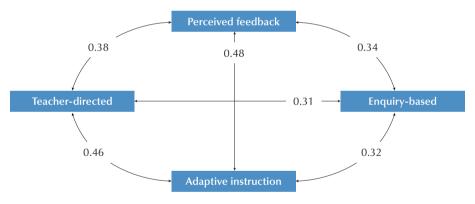
Surprisingly, students in schools that offer a science club as a school activity are equally likely to participate in a science club as students in schools that do not offer that activity (Table II.2.14). This might be because schools in which students are (not) already attending a science club outside of school may have less (more) incentive to offer a science club themselves.

TEACHING SCIENCE

How science is taught at school can make a big difference for students. Education systems, schools and teachers need to decide how much emphasis is given to learning concepts and facts, observing natural phenomena, designing and conducting experiments, and applying scientific ideas and technologies to understand daily life. Science teachers also need to decide which strategies to use in the classroom, and how much time to allocate to each of them; how much time will be devoted to explanations, class discussions, debates, hands-on activities and students' questions; how much feedback they will provide to students; and how flexible their lessons will be. The way science is taught could affect student performance and students' beliefs about and interest in science. Even if there is no single "best" way of teaching, students need teachers who are challenging and innovative in the way they combine different instructional practices, and who can reach all types of learners (OECD, 2016).

PISA 2015 asked students who attend at least one science course how often certain activities happen in their science lessons. While students may not always recall exactly what happens in their science lessons, students' reports are often more reliable than teachers' reports, as teachers will often overstate how much they expose their students to activities that are positively viewed by others (Hodson, 1993). The teaching strategies used by teachers are grouped into four approaches: teacher-directed instruction, perceived feedback, adaptive instruction and enquiry-based instruction. According to students' reports, these teaching approaches are not mutually exclusive, even if some teaching approaches, such as adaptive teaching and providing feedback, are more frequently combined than others (Figure II.2.12).

Figure II.2.12 ■ Relationships among instructional practices in science Correlations at the student-level based on students' reports, OECD average



Source: OECD, PISA 2015 Database, Table II.2.15.

Teacher-directed science instruction

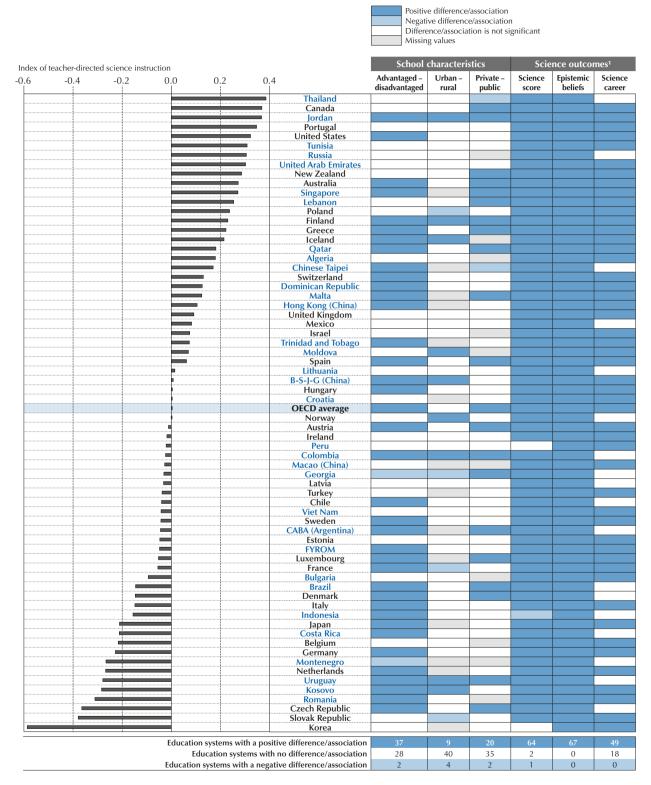
The goal of teacher-directed science instruction is to provide a well-structured, clear and informative lesson on a topic, which usually includes teachers' explanations, classroom debates and students' questions. Even if these strategies render students passive during class, some teacher direction is essential if students are expected to acquire generally accepted science knowledge (Driver, 1995). As with other teaching approaches, much of the effectiveness depends on how well the strategies are used in the classroom.

PISA asked students how frequently ("never or almost never", "some lessons", "many lessons" or "every lesson or almost every lesson") the following events happen in their science lessons: "The teacher explains scientific ideas"; "A whole class discussion takes place with the teacher"; "The teacher discusses our questions"; and "The teacher demonstrates an idea". The index of teacher-directed instruction combines these four questions to measure the extent to which science teachers direct student learning in science lessons. Higher values on this index, and other indices on science instruction, indicate more frequent use of these strategies, according to students' reports.



Figure II.2.13 • Teacher-directed science instruction, school characteristics and science outcomes

Results based on students' reports



^{1.} After accounting for the PISA index of economic, social and cultural status of students and schools. Countries and economies are ranked in descending order of the index of teacher-directed science instruction. Source: OECD, PISA 2015 Database, Table II.2.17.



Like mathematics teachers (OECD, 2016), science teachers use teacher-directed strategies more frequently than other types of instructional practices (Tables II.2.16, II.2.19, II.2.22 and II.2.26). These strategies may be used more frequently because they are less time-consuming (efficient), they are easier to implement (convenient), and some degree of transmission from knowledgeable others to students is essential, particularly when it comes to scientific knowledge. If a teacher needs to cover a long curriculum, it can be difficult to use other teaching approaches frequently, such as giving individual feedback to students, providing individualised support to struggling students or allowing students to design their own experiments. In fact, among the four teacher-directed strategies, organising "a whole class discussion" is the least frequently used, according to students, probably because it takes up more classroom time.

Across OECD countries, teacher-directed instruction is more commonly used in socio-economically advantaged schools than in disadvantaged schools, with the largest differences between the two types of schools observed in B-S-J-G (China), Colombia and Kosovo (Table II.2.17). In 21 countries and economies, these strategies are more frequently used in private schools than in public schools; only in Chinese Taipei and Thailand are they more frequently used in public schools (Figure II.2.13).

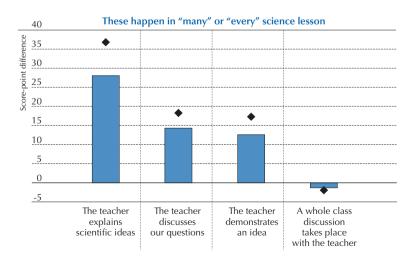
In all but three education systems – Indonesia, Korea and Peru – using teacher-directed instruction more frequently is associated with higher science achievement, after accounting for the socio-economic status of students and schools; and students in all countries also hold stronger epistemic beliefs, such as believing that scientific ideas change in light of new evidence, when their teachers used these strategies more frequently (Figure II.2.13). A positive association is also observed between these teaching practices and students' expectations of pursuing science-related careers. In no education system are these instructional practices associated with students being less likely to expect to work in science-related occupations.

On average across OECD countries, and after accounting for the socio-economic status of students and schools, students who reported that their teacher explains scientific ideas "in many lessons" or in "every lesson" score 28 points higher in science; those who reported that their teacher discusses students' questions as frequently score 14 points higher; and students who reported that their teacher demonstrates an idea "in many lessons" or in "every lesson" score 13 points higher in science (Figure II.2.14). However, students score somewhat lower in science when they reported that a whole class discussion occurs "in many lessons" or "every lesson".

Figure II.2.14 ■ Teacher-directed teaching practices and science performance



- ◆ Before accounting for students' and schools' socio-economic profile¹
- After accounting for students' and schools' socio-economic profile



^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status.

Note: All differences are statistically significant (see Annex A3).

Source: OECD, PISA 2015 Database, Table II.2.18.



Perceived feedback from science teachers

Providing informative and encouraging feedback is essential for improving student outcomes (Hattie and Timperley, 2007; Lipko-Speed, Dunlosky and Rawson, 2014). Feedback in education usually refers to the information that students receive from peers, parents and teachers after they carry out an assignment, usually some type of assessment. The aim of this information is to modify or reinforce student behaviours. Feedback can take several forms, such as praise, surprise, approval or punishment, but it needs to contain some information about a task (Deci, Koestner and Ryan, 1999). However, not all types of feedback are equally effective. The most useful feedback goes in both directions – from teacher to student and back again – and relates feedback to learning goals (Hattie, 2009).

PISA asked students how frequently ("never or almost never", "some lessons", "many lessons" or "every lesson or almost every lesson") the following happens in their science lessons: "The teacher tells me how I am performing in this course"; "The teacher gives me feedback on my strengths in this class"; "The teacher tells me in which areas I can still improve"; "The teacher tells me how I can improve my performance"; and "The teacher advises me on how to reach my learning goals". The index of perceived feedback combines these five questions to measure the extent to which students perceive that their science teachers provide them with regular feedback.

On average across OECD countries, each of the five types of feedback was reported as being used in every lesson or almost every lesson by fewer than 10% of students; about 20% of students reported that they are used in many lessons. For example, 32% of students reported that their teachers never or almost never tell them in which areas they can still improve or advise them on how to reach their learning goals, and as many as 38% reported that their teachers never give them feedback on their strengths (Table II.2.19). These percentages would probably be higher if teachers were asked about how much feedback they provide as teachers usually say they provide more feedback than what students perceive (Carless, 2006).

Students in disadvantaged and rural schools were more likely to report that their teachers provide them with feedback (Figure II.2.15). More perceived feedback is also associated with poorer performance in science, probably because low-performing students need and receive more feedback than better-performing students. Across OECD countries, the more students perceive that their teachers frequently provide feedback, the more likely they are to expect to work in science-related careers and the stronger their epistemic beliefs.

The relationship with science performance is similar for the different types of perceived feedback (Table II.2.21). Across OECD countries and after accounting for socio-economic status, students score between 5 and 17 points lower in science when they reported that their teachers use these strategies "in many lessons" or "every or almost every lesson" than when they reported that they use them in "some lessons" or "never or almost never".

Adaptive instruction in science lessons

Adaptive instruction refers to teachers' flexibility with their lessons: tailoring the lessons to the students in their classes, including to individual students who are struggling with a topic or a task. Adapting science lessons to students with different knowledge, abilities and needs is crucial if the goal is to teach science to all types of students (Hofstein and Lunetta, 2004).

PISA asked students how frequently ("never or almost never", "some lessons", "many lessons" or "every lesson or almost every lesson") the following happens in their science lessons: "The teacher adapts the lesson to my class's needs and knowledge"; "The teacher provides individual help when a student has difficulties understanding a topic or task"; and "The teacher changes the structure of the lesson on a topic that most students find difficult to understand". The index of adaptive instruction combines these three questions to measure the extent to which students perceive that their science teachers adapt their instruction based on students' needs, knowledge and abilities.

Across OECD countries, about 16% of students reported that their science teachers adapt their instruction in every lesson or almost every lesson, and almost 30% reported their teachers do so in many lessons (Table II.2.22). These percentages vary little across the three questions, even if "[providing] individual help when a student has difficulties" is done somewhat more frequently than "[adapting] the lesson to the student needs and knowledge" and "[changing a lesson when] students find it difficult to understand". Portugal stands out as the country where teachers are more likely to adapt the content and structure of the lesson to the needs, knowledge and abilities of their students. For example, more than one in three students reported that their teacher provides individual help when a student has trouble understanding a topic or task in every lesson or almost every lesson, compared with about one in six students across OECD countries.



Figure II.2.15 ■ Perceived feedback, school characteristics and science outcomes

Results based on students' reports



ndex of percei	ved feedback			School characteristics			Science outcomes ¹			
5	0.0	0.5	1.0	Advantaged – disadvantaged	Urban – rural	Private – public	Science score	Epistemic beliefs	Scienc caree	
			Dominican Republic							
			Georgia							
			Lebanon FYROM							
			Tunisia							
			Moldova							
			Viet Nam							
			United Arab Emirates							
			Jordan							
			Qatar Russia							
			Bulgaria							
			Mexico							
			Peru							
			Colombia							
			United Kingdom							
			Kosovo Trinidad and Tobago							
			Turkey							
			Indonesia							
			Montenegro							
			United States							
			Singapore Algeria							
		_	New Zealand							
			Thailand							
		-	Latvia							
			B-S-J-G (China)							
			Chinese Taipei Romania							
			Romania							
			Poland Canada							
			Malta							
			Lithuania							
			Brazil							
			Chile							
			Hong Kong (China)							
			Spain Portugal							
			Costa Rica							
			Italy							
			Greece							
			Australia							
			Uruguay							
			Croatia							
			Hungary Ireland							
			OECD average							
			Norway							
	=		Sweden							
	_		Slovak Republic							
			Israel							
			Netherlands Estonia							
			Czech Republic							
			Macao (China)							
			France							
			CABA (Argentina)							
			Belgium							
			Luxembourg							
			Austria Switzerland			-				
			Denmark							
			Finland							
		i	Germany							
			Japan							
			Korea							
		<u> </u>	Iceland							
		Education system	s with a positive difference/association	1	2	7	3	56	31	
			systems with no difference/association	10	23	40	12	10	34	
			s with a negative difference/association	56	28	10	52	1	2	

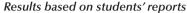
^{1.} After accounting for the PISA index of economic, social and cultural status of students and schools. Countries and economies are ranked in descending order of the index of perceived feedback.

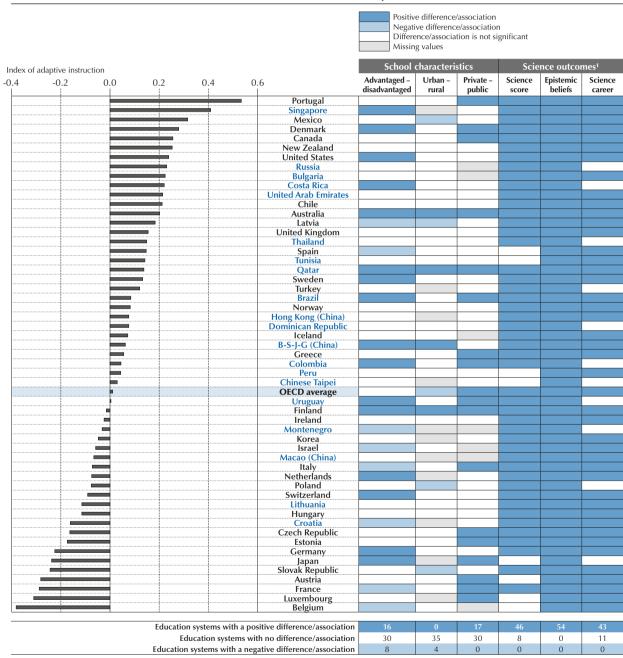
Source: OECD, PISA 2015 Database, Table II.2.20.



Across PISA-participating countries and economies, there is no consistent pattern in how adaptive teaching varies between advantaged and disadvantaged schools or between rural and urban schools (Figure II.2.16). However, in 17 countries and economies, adaptive instruction is more frequently used in private schools than in public schools, particularly in Brazil, Denmark, Greece, Italy, Japan and Portugal. Perhaps in these education systems public school teachers are constrained by the size of their classes and the official curriculum in a way that teachers in private schools are not. It could also be that teachers in private schools have more incentive to adapt their instruction to their students' needs.

Figure II.2.16 - Adaptive instruction, school characteristics and science outcomes





^{1.} After accounting for the PISA index of economic, social and cultural status of students and schools. Countries and economies are ranked in descending order of the index of adaptive instruction.

Source: OECD, PISA 2015 Database, Table II.2.23.



Interestingly, in almost every education system that participated in PISA 2015, students who reported that their science teachers use adaptive instruction more frequently score higher on the PISA science assessment; and in every education system, these students also hold stronger epistemic beliefs (Figure II.2.16). The association with student performance is particularly strong in the Nordic countries and in the Netherlands, Qatar, Singapore and the United Arab Emirates, while the association with epistemic beliefs is strongest in the Dominican Republic, Qatar and the United Arab Emirates (Table II.2.23). Students who reported that their teachers adapt their instruction more frequently also hold higher expectations of pursuing science-related careers.

On average across OECD countries, and after accounting for students' and schools' socio-economic profile, students score 20 points higher in science when they reported that their teachers adapt the lesson to the class's needs and knowledge "in many lessons" or "every lesson" than when they reported that this happens "in some lessons" or "never". Students also score 13 points higher, on average, when they reported that their teacher provides individual help when a student has difficulties understanding a topic or task, and 8 points higher, on average, when their teacher changes the structure of the lesson on a topic that most students find difficult to understand (Table II.2.24).

One way education systems may encourage their teachers to tailor their teaching to students' needs is by granting schools greater autonomy. More autonomy could imply greater incentives for schools and teachers to adapt to their students' needs, rather than simply stick to a detailed curriculum. Figure II.2.17 shows that, on average across OECD countries, more school autonomy is associated with more frequent use of adaptive instruction (tailoring teaching to students' needs and helping students who struggle in a specific task). The relationship is moderate (and negative in Ireland), after accounting for socio-economic status; but changing what happens inside the classroom by changing education policies is never easy (Tyack and Cuban, 1995).

Enquiry-based science instruction

Enquiry-based teaching practices are particularly important in teaching physical and life sciences. Enquiry refers to the ways in which scientists "study the natural world, propose ideas, and explain and justify assertions based upon evidence derived from scientific work" (Hofstein and Lunetta, 2004). In science education, enquiry-based instruction is about engaging students in experimentation and hands-on activities, and also about challenging students and encouraging them to develop a conceptual understanding of scientific ideas. Top-performing students in science are expected to understand, explain and debate scientific ideas; design and carry out experiments and communicate findings; and connect their scientific ideas and investigations to real-life problems (Minner, Levy and Century, 2010). Previous studies show that enquiry-based instruction can improve students' learning, their attitudes towards science, and their transferable skills, such as critical thinking (Blanchard et al., 2010; Furtak et al., 2012; Hattie, 2009; Minner, Levy and Century, 2010). However, some experts caution that laboratory work can only improve learning if it is carefully designed and well-structured, and if students manipulate ideas, not only objects (Hofstein and Lunetta, 2004; Woolnough, 1991).

Many science teachers do not use enquiry-based instructional practices – even some of those who believe they do (Gardiner and Farragher, 1999; Hodson, 1993). Teachers may not propose more enquiry-based learning and laboratory work because of a lack of time and materials, large classes, safety issues, pedagogical limitations, management problems, and teachers' beliefs about students' abilities and the nature of laboratory work (Backus, 2005; Cheung, 2007; Gallet, 1998). Some teachers believe that the typical student is incapable of designing and conducting enquiry activities successfully; others believe that laboratory work is time-consuming and often chaotic (Brown et al., 2006).

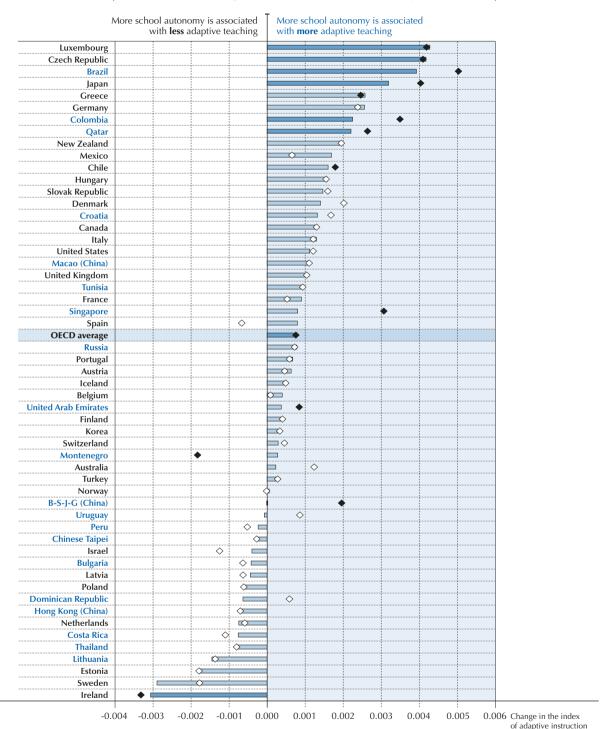
PISA asked students how frequently ("never or hardly ever", "in some lessons", "in most lessons" and "all lessons") the following happens in their science lessons: "Students are given opportunities to explain their ideas"; "Students spend time in the laboratory doing practical experiments"; "Students are required to argue about science questions"; "Students are asked to draw conclusions from an experiment they have conducted"; "The teacher explains how a science idea can be applied to a number of different phenomena"; "Students are allowed to design their own experiments"; "There is a class debate about investigations"; "The teacher clearly explains the relevance of science concepts to our lives"; and "Students are asked to do an investigation to test ideas". The index of enquiry-based instruction combines these nine statements to measure the extent to which science teachers encourage students to be deep learners and to enquire about a science problem using scientific methods, including experiments.



Figure II.2.17 ■ School autonomy and adaptive instruction in science lessons

Results based on students' and school principals' reports

- ♦ ◆ Before accounting for students' and schools' socio-economic profile¹
- After accounting for students' and schools' socio-economic profile



^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status.

Note: Statistically significant differences are marked in a darker tone (see Annex A3).

Countries and economies are ranked in descending order of the change in the index of adaptive teaching when the index of school autonomy increases by one unit, after accounting for students' and schools' socio-economic profile.

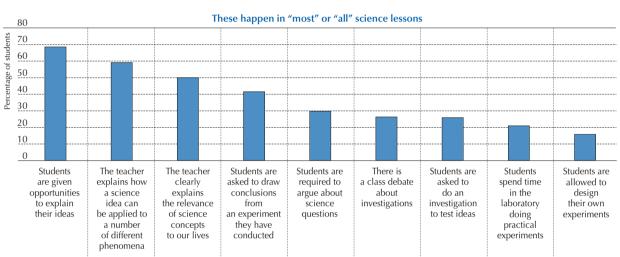
Source: OECD, PISA 2015 Database, Table II.2.25.



When students in OECD countries were asked about what happens in all or most lessons, almost seven in ten reported that they are given opportunities to explain their ideas, about six in ten reported that their science teachers explain how a science idea can be applied to different phenomena, and half reported that their teachers explain the relevance of science concepts to their lives (Figure II.2.18). Only one in four students or fewer reported that they are allowed to design their own experiments or spend time in the laboratory doing practical experiments. Among students who attend at least one science course, at least six in ten students in Brazil, Costa Rica, Iceland, Montenegro, Poland and Spain reported that they never or hardly ever spend time in the laboratory doing practical experiments; and in Austria, Belgium, Finland, Italy, Japan, Korea and the Slovak Republic, more than one in two students reported that they are never or hardly ever asked to do an investigation to test ideas (Table II.2.26).

Figure II.2.18 • Enquiry-based instruction in science lessons

Results based on students' reports, OECD average



Source: OECD, PISA 2015 Database, Table II.2.26.

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In 27 PISA-participating countries and economies, students in socio-economically disadvantaged schools are more frequently exposed to enquiry-based teaching than those in advantaged schools, while the reverse is true in 10 other education systems (Figure II.2.19). There are also more education systems where enquiry-based teaching is more commonly used in rural schools than in urban schools. But there is no clear pattern in the use of enquiry-based instruction when comparing public and private schools.

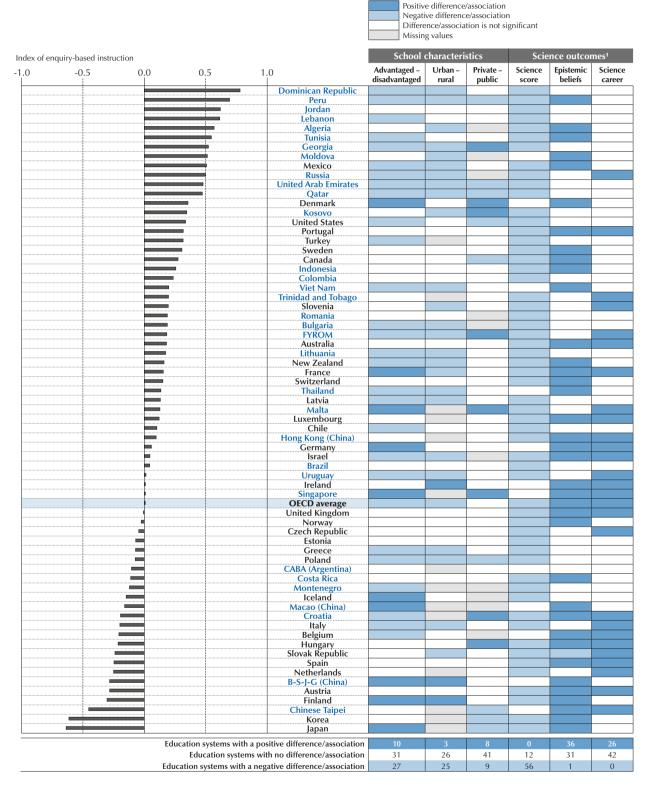
After accounting for students' and schools' socio-economic profile, greater exposure to enquiry-based instruction is negatively associated with science performance in 56 countries and economies. Perhaps surprisingly, in no education system do students who reported that they are frequently exposed to enquiry-based instruction score higher in science. However, across OECD countries, more frequent enquiry-based teaching is positively related to students holding stronger epistemic beliefs and being more likely to expect to work in a science-related occupation when they are 30, even if these relationships are weaker than is the case with teacher-directed and adaptive instruction.

Not all of the questions that were used to create the index of enquiry-based instruction are related to performance in the same way (Figure II.2.20). Students who reported that their teachers explain how a science idea can be applied to a number of different phenomena in most or all science lessons score higher in science than do students who reported that such activity happens in some lessons, hardly ever or never. At the other end of the spectrum, activities related to experiments and laboratory work show the strongest negative relationship with science performance. While this correlational evidence should be interpreted with caution – for instance, teachers may be using hands-on activities to make science more attractive to disengaged students (see Figure II.2.21 for a more sophisticated analysis) – it does suggest that some of the arguments against using hands-on activities in science class should not be completely disregarded. These include that these activities do not promote deep knowledge, that they are an inefficient use of time, or that they only work when there is good laboratory material and teacher preparation.



Figure II.2.19 • Enquiry-based instruction, school characteristics and science outcomes

Results based on students' reports

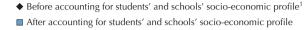


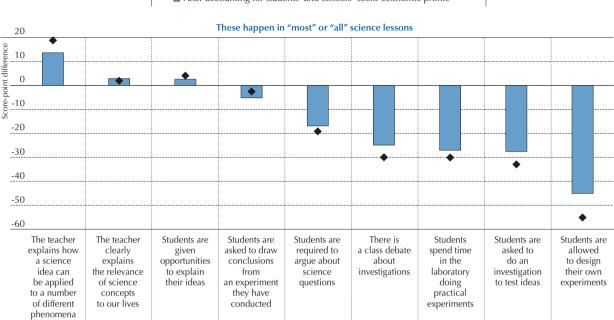
^{1.} After accounting for the PISA index of economic, social and cultural status of students and schools. Countries and economies are ranked in descending order of the index of enquiry-based instruction. Source: OECD, PISA 2015 Database, Table II.2.27.



Figure II.2.20 • Enquiry-based teaching practices and science performance

Results based on students' reports, OECD average





1. The socio-economic profile is measured by the PISA index of economic, social and cultural status.

Note: All differences are statistically significant (see Annex A3).

Source: OECD, PISA 2015 Database, Table II.2.28.

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HOW SCIENCE RESOURCES, LEARNING TIME AND TEACHING ARE RELATED TO SCIENCE PERFORMANCE COMPARED TO PERFORMANCE IN OTHER SUBJECTS

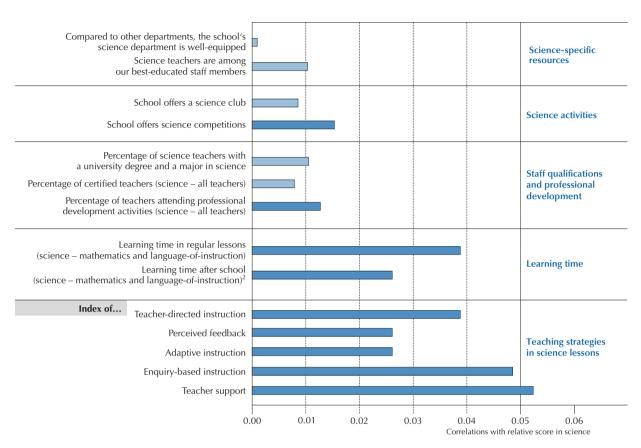
Students who perform well in a school subject are more likely to perform well in other school subjects too (see Volume I). For this reason, it is interesting to take an in-depth look at the differences between student performance in science and in other school subjects, such as mathematics and reading, and relate these differences to the resources and teaching devoted to science at school. Some of the analyses in this section provide an even wider perspective as they also compare the material resources and staff in the science department with that in other school departments, and the learning time allocated to science and other subjects. Since the performance of the same students is compared across different subjects, these analyses account for students' characteristics that are important for success in all school subjects and cannot be easily observed, such as their general intelligence or their general perseverance. The explained variable in the analyses presented in Figure II.2.21 is the students' science score minus the average of their scores in reading and mathematics.

The main message that emerges from Figure II.2.21 is that the quality of the material and human resources of a science department, and the kinds of science activities offered to students have a weaker impact on student performance than how much time students devote to learning science and how teachers teach science. Students score higher in science than in reading and mathematics when their school offers science competitions, and when the proportion of science teachers participating in professional development activities is larger than the proportion of all school teachers who have participated in such activities. Students also perform better in science than in mathematics and reading when they spend more time learning science than learning reading and mathematics (both in regular lessons and after school), and when their teachers frequently use any of the five teaching approaches analysed – but especially those categorised as teacher-support or enquiry-based instruction. The correlations are weak, but this is to be expected given that a range of student characteristics, such as their socio-economic status and general intelligence, are accounted for.



Figure II.2.21 • Explaining the difference in performance between science and other subjects1

Results based on students' and school principals' reports, OECD average



- 1. "Other subjects" refer to reading and mathematics.
- 2. Time spent learning in addition to the required school schedule, including homework, additional instruction and private study. **Note:** Statistically significant correlations are marked in a darker tone (see Annex A3).

Source: OECD, PISA 2015 Database, Table II.2.29.

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HOW SCIENCE RESOURCES, LEARNING TIME AND TEACHING ARE RELATED TO STUDENTS' EXPECTATIONS OF WORKING IN SCIENCE-RELATED CAREERS

Improving performance in science is not all that matters in science education; encouraging an adequate proportion of students to envision themselves working in science-related occupations in the future is also important in most, if not all, education systems. Figure II.2.22 provides an overview of the factors that are associated with students' expectations of working in science-related occupations when they are 30. As with students' performance in science compared with their performance in other subjects, what is most strongly associated with students' expectations of pursuing a science-related career is how much time they devote to learning science, and how their teachers teach science – even after accounting for students' science performance and the socio-economic profile of students and schools. How well the school's science department is equipped and staffed, relative to other school departments, and what extracurricular activities are offered at school are positively related to students' expectations of a science-related career.

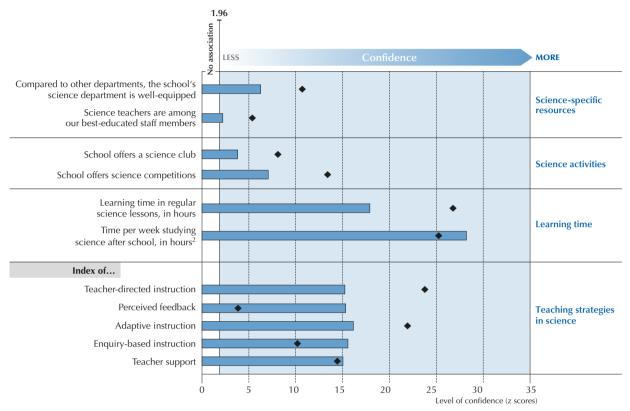
Interestingly, all teaching strategies show a similar positive and strong association with students' expectations of pursuing a science-related career, probably because students become more interested in science when they perceive that teaching, any type of it, happens in their science lessons. The relationship between perceived feedback and expectations of a career in science becomes much stronger after accounting for science performance, presumably because low-performing students tend to be given more feedback from teachers and these students are generally less interested in pursuing science-related careers.



Figure II.2.22 ■ Explaining students' expectations of a career in science

Results based on students' and school principals' reports, OECD average

- $\blacklozenge \ \, \text{Before accounting for science performance and the socio-economic profile of students and schools}^1 \\$
- After accounting for science performance and the socio-economic profile of students and schools



- 1. The socio-economic profile is measured by the PISA index of economic, social and cultural status.
- 2. Time spent learning in addition to the required school schedule, including homework, additional instruction and private study. **Notes:** All correlations are statistically significant (see Annex A3).

Z-scores measure the confidence that an association exists between explanatory variables and students' expectations of working in a science-related career. Z-scores above 1.96 mean that the relationship is statistically significant at the 95% confidence level.

Source: OECD, PISA 2015 Database, Table II.2.30.



Notes

- 1. The index of epistemic beliefs has been standardised to have an average of zero and a standard deviation of one across OECD countries.
- 2. Students expecting to work in science-related occupations, such as those in the fields of science, engineering, health or information and communication technologies, at the age of 30 were given a value of one; students expecting to work in other occupations, with vague career expectations or with missing or invalid answers were given a value of zero; students who did not reach the questions were excluded from the analysis.
- 3. Note by Hong Kong: Hong Kong has introduced in 2009 a new secondary curriculum, with Liberal Studies as an interdisciplinary core subject, replacing a system in which students were streamed into more narrow Arts or Science streams. Under the new curriculum, only 3% of students in the modal grade for 15-year-olds are taking all three science subjects (i.e. Physics, Chemistry, Biology), compared to about 37% in the old system; but more students (about 49%) take at least one subject, compared to about 45% in the old system. The learning time for science in senior secondary school is proportional to the number of courses taken.
- 4. For a description and in-depth analysis of the index of teacher support, please see Chapter 3.

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The school learning environment

This chapter describes the learning environment in different types of schools and examines how it is related to student performance. It covers student truancy, the disciplinary climate, and student and teacher behaviour that can influence the climate for learning at school. The chapter also discusses how the collaboration between teachers and parents is related to the climate in the classroom, and how school leaders can set the tone for learning at school.

A note regarding Israel

The statistical data for Israel are supplied by and under the responsibility of the relevant Israeli authorities. The use of such data by the OECD is without prejudice to the status of the Golan Heights, East Jerusalem and Israeli settlements in the West Bank under the terms of international law.



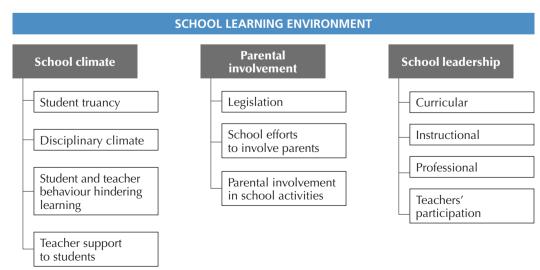
The general consensus is that the learning environment influences student engagement and performance, and teachers' desire to continue working at the school (Engeström, 2009; Thapa et al., 2013). The learning environment encompasses what happens in classrooms, from the layout of the classroom to the disciplinary climate and instructional practices (Fraser, 2015); what happens in schools, from the design of the school building to violence inside the school (Gislason, 2010; Picus et al., 2005; Twemlow et al, 2001); and what happens in the school's broader socio-cultural context (OECD, 2013). Learning environments can be described, for instance, as innovative, dynamic, collaborative, smart or authentic (Engeström, 2009); above all, they are perceived as either positive or negative.

The aspects of the learning environment related to school climate, parental involvement and school leadership examined in this chapter are summarised in Figure II.3.1. Further questions on learning environments, such as those on bullying, student teamwork, parents' social relationships and how the learning environment is related to students' well-being and other social and emotional outcomes, are analysed in Volume III.

What the data tell us

- On average across OECD countries, 20% of students had skipped a day of school in the two weeks prior to the PISA test. In virtually all education systems, students who had skipped a day of school during that period score lower in science.
- In all school systems, students who had skipped a day of school are concentrated in certain schools. In most school
 systems, students in socio-economically disadvantaged schools are more likely to have skipped a day of school
 than students in advantaged schools.
- On average across OECD countries, students in advantaged schools enjoy a more positive disciplinary climate than students in disadvantaged schools. Except in Ciudad Autónoma de Buenos Aires (Argentina) and Korea, students score higher in science when they report a more positive disciplinary climate.
- Across OECD countries, school principals reported student truancy and staff resisting change as the problems
 that hinder student learning the most they also reported that student use of alcohol or illegal drugs and students
 intimidating or bullying other students hinder student learning the least.
- Students in school systems where they are selected into different education programmes or types of schools at a later age reported receiving greater support from their teachers.
- In two out of three school systems that distributed the parents' questionnaire, parents whose child attends a socioeconomically disadvantaged school participate in more school activities than parents whose child attends an advantaged school.

Figure II.3.1 ■ The learning environment as covered in PISA 2015





SCHOOL CLIMATE

Research into what makes schools effective finds that learning requires an orderly, supportive and positive environment both in and outside the classroom (Jennings and Greenberg, 2009). In effective schools, academic activities and student performance are valued by both students and teachers, and students rarely miss learning opportunities (Cooper, 2002; Sammons, 1999; Scheerens and Bosker, 1997; Taylor, Pressley and Pearson, 2002). Students, particularly disadvantaged students, engage in learning activities and have fewer disciplinary problems when they feel that their teachers care about their learning, treat them fairly and give them opportunities to express their opinions (Klem and Connell, 2004).

The school climate, as measured in PISA 2015, encompasses student truancy, disciplinary climate, student and teacher behaviours hindering learning, and teacher support to students.

Student truancy

Every school day, many students are missing learning opportunities because they skip school or arrive late for school. Regular truancy can have adverse consequences for students: truants are more likely to drop out of school, wind up in poorly paid jobs, have unwanted pregnancies, abuse drugs and alcohol and even become delinquent (Baker, Sigmon, and Nugent, 2001; Barber, Stone, and Eccles, 2010; Hallfors et al., 2002; Henry and Huizinga, 2007; Juvonen, Espinoza and Knifsend, 2012; Office for Standards in Education, 2001; Valeski and Stipek, 2001). If pervasive, student truancy can also hurt the entire class. If students who arrive late for school or skip classes fall far behind in their classwork and require extra assistance, the flow of instruction is disrupted, and all students in the class, particularly those who might be working closely with truants, may suffer. Truants might also generate resentment among students who attend class regularly – and sympathy among others who may realise that they too can skip classes (Wilson et al., 2008).

Skipping school

PISA asked students to report the number of times ("never", "one or two times", "three or four times" or "five or more times") they had skipped a whole day of school and the number of times they had skipped some classes during the two weeks prior to the assessment.¹ On average across OECD countries, 26% of students said they had skipped classes at least once and 20% reported that they had skipped a whole day of school at least once (Figure II.3.2 and Table II.3.1). In some education systems, however, students skip school relatively frequently. For instance, in the Dominican Republic, Italy, Montenegro, the Slovak Republic and Uruguay, more than one in two students had skipped a day of school at least once in the two weeks prior to the PISA assessment, and similar numbers had skipped some classes during that period. This means that large proportions of students in these countries regularly miss learning opportunities, with likely adverse consequences for both these students and their classmates.

The percentage of students who had skipped a whole day of school at least once in the two weeks prior to the PISA test increased by around 5 percentage points across OECD countries between 2012 and 2015 (Figure II.3.2). The percentage of students who had skipped school increased by at least 25 percentage points in Brazil, Colombia, Finland, Montenegro, Peru, the Slovak Republic and Uruguay, and decreased the most in Canada, Spain, Turkey and the United Arab Emirates. The percentage of students who had skipped some classes at least once during that period also increased between 2012 and 2015, by around 7 percentage points across OECD countries (Table II.3.3).

In PISA-participating countries and economies, skipping a whole day of school is more common in disadvantaged schools than in advantaged schools (Figure II.3.3). This is seen in 44 countries and economies, with the largest differences between disadvantaged and advantaged schools observed in Bulgaria, France, Italy, Slovenia, and Uruguay (Table II.3.4). Only in Macao (China), Peru, Turkey and the United Arab Emirates were students in advantaged schools more likely to report that they had skipped a whole day of school. On average across OECD countries, students in rural and urban schools were equally likely to have skipped a day of school, and those in public schools were more likely than students in private schools to have done so.

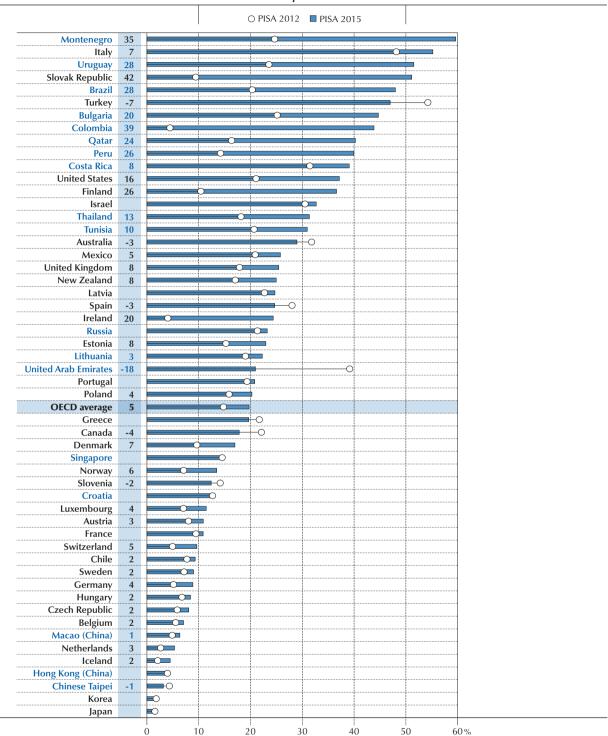
Skipping a whole day of school is negatively associated with performance in science in all countries and economies except Turkey and the United Arab Emirates, and a large part of that relationship remains even after accounting for socio-economic status. On average across OECD countries, students who had skipped a whole day of school at least once in the two weeks prior to the PISA assessment score 45 points lower in the science assessment than students who had not skipped a day of school (33 points lower after accounting for the socio-economic profile of students and schools) (Table II.3.4).

The findings for skipping some classes are similar to those for skipping a whole day of school, even if the differences between advantaged and disadvantaged schools are generally smaller and the association with science performance weaker (Table II.3.5).



Figure II.3.2 ■ Change between 2012 and 2015 in student truancy

Percentage of students who reported that they had skipped a day of school at least once in the two weeks prior to the PISA test



Notes: Only countries/economies that participated in both the 2012 and 2015 PISA assessments are shown.

Only percentage-point differences between PISA 2012 and PISA 2015 that are statistically significant are shown next to the country/economy name (see Annex A3).

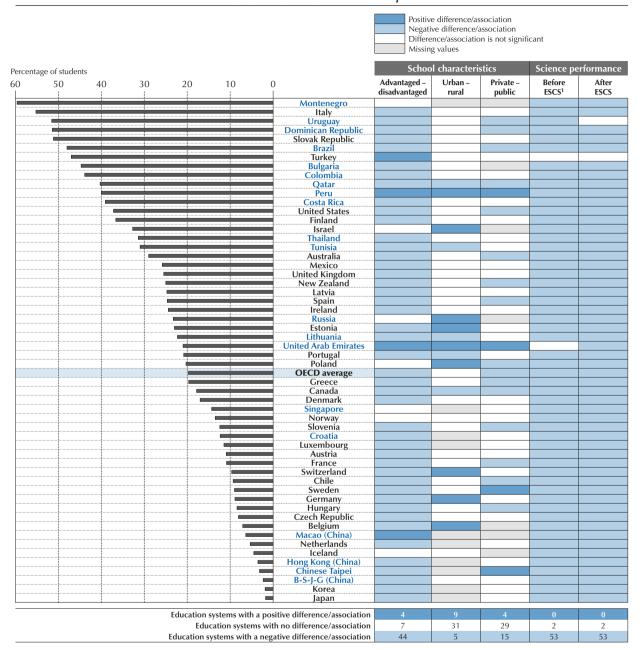
Countries and economies are ranked in descending order of the percentage of students who had skipped a whole day of school at least once in the two weeks prior to the PISA test in 2015.

Source: OECD, PISA 2015 Database, Tables II.3.1, II.3.2 and II.3.3.



Figure II.3.3 • Students skipping a whole day of school, school characteristics and science outcomes

Results based on students' self-reports



^{1.} ESCS refers to the PISA index of economic, social and cultural status.

Countries and economies are ranked in descending order of the percentage of students who had skipped a whole day of school at least once in the two weeks prior to the PISA test.

Note: See Annex A7 for instructions on how to interpret this figure.

Source: OECD, PISA 2015 Database, Table II.3.4.

StatLink http://dx.doi.org/10.1787/888933435660

Arriving late for school

PISA 2015 asked students to report the number of times ("never", "one or two times", "three or four times" or "five or more times") they had arrived late for school during the two weeks prior to the assessment. On average across OECD countries, 44% of students said that they had arrived late for school at least once (Table II.3.1) during that period. In Hong Kong (China), Japan, Korea and Singapore, fewer than one in four students had arrived late for school; while in Chile, Montenegro, Tunisia and Uruguay, more than three in five had arrived late for school.



The percentage of students who had arrived late for school at least once in the two weeks prior to the PISA test increased between 2012 and 2015 by around 9 percentage points across OECD countries (Table II.3.3) and by at least 20 percentage points in Belgium, the Czech Republic, France, Luxembourg, Montenegro, the Netherlands, Switzerland and Tunisia. Only in Bulgaria, Costa Rica, Finland, Korea, Latvia and Portugal did the percentage of these students decrease.

Across OECD countries, arriving late for school is more frequently observed in socio-economically disadvantaged schools than in advantaged schools (Table II.3.6). In Beijing-Shanghai-Jiangsu-Guangdong (China) (hereafter "B-S-J-G [China]"), France, Hungary and the Netherlands, for example, the proportion of students who had arrived late for school is more than 20 percentage points larger in disadvantaged schools than in advantaged schools. In 23 education systems, students in disadvantaged schools are more likely than students in advantaged schools to have arrived late for school; only in 11 education systems, including those in Finland, Latvia and Poland, are students in advantaged schools more likely to have arrived late for school.

Arriving late for school seems to be less of a problem in rural than in urban areas (Table II.3.6). In 23 education systems, most notably in Finland, Latvia and Poland, rural students were more likely to report that they had arrived on time for school during the two weeks prior to the PISA test. On average across OECD countries, students in public schools were as likely as students in private schools to report that they had arrived late for school during that period.

Arriving late for school is negatively associated with science performance in all countries and economies except Colombia, Costa Rica, the Dominican Republic and Tunisia. On average across OECD countries, students who had arrived late for school at least once in the two weeks prior to the PISA assessment score 27 points lower on the science assessment than students who had never arrived late, and 23 points lower after accounting for the socio-economic profile of students and schools (Table II.3.6).

How does truancy throughout the school relate to individual student truancy, science performance and disciplinary climate?

There are many studies that explain why students miss learning opportunities and enumerate all the adverse consequences that this behaviour can have on students' future (Baker, Sigmon and Nugent, 2001; Carroll, 2011; Juvonen, Espinoza and Knifsend, 2012; OECD, 2016; Skinner and Pitzer, 2012). There are also many studies that measure peer effects on risky behaviours, such as vandalism, smoking and using illicit drugs, and low academic achievement (Card and Giuliano, 2013; Imberman, Kugler and Sacerdote, 2012; Lundborg, 2006; Schneeweis and Winter-Ebmer, 2005). But there are far fewer studies examining the consequences for individual students when other students in the school play truant. Some studies have shown that when school peers miss learning opportunities, other students in the school are more likely to miss learning opportunities too (Card and Giuliano, 2013; Duarte, Escario and Molina, 2011). Wilson et al. (2008) suggest other ways in which individual truancy may affect the entire school, including resentment among students who attend school regularly, disruption in class and frustration among teachers. This section examines how school truancy is related to the likelihood of truancy and academic achievement among the other students in the school, and to the disciplinary climate in science lessons. Findings should be interpreted with caution: identifying causal effects and isolating peer effects requires other types of data, a specific research design and more fine-grained analyses (Manski, 1993).

How concentrated is truancy across schools?

A simple way to answer this question is to examine the variation in truancy rates across schools. In all countries and economies for which data are available, students who had skipped a day of school at least once in the two weeks prior to the PISA test are more likely to be found in some schools than in others (Figure II.3.4). The concentration of students who had skipped a day of school is highest in Estonia, France, Hungary and the United Arab Emirates, and lowest in Hong Kong (China), Iceland, Luxembourg, Montenegro and Singapore. In Estonia, for instance, 23% of students had skipped a day of school in the two weeks prior to the PISA test, on average; but as many as 38% had done so in the typical school of students who have skipped a school day.

When students play truant, how does the academic performance of other students change?

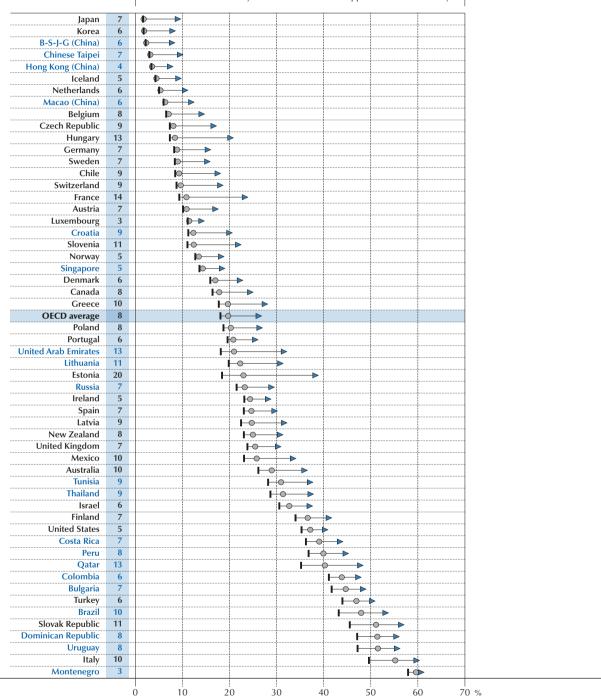
Students who play truant frequently need extra assistance, which may negatively affect the flow of instruction, particularly for those students who work closely with truants, who are often asked to help them catch up (Wilson et al., 2008). For these and other reasons, missing days of school may adversely affect the academic performance not only of the truant himself/herself, but also of other students in the same school.



Figure II.3.4 • Concentration of truancy across schools

Percentage of students at school who had skipped a whole school day in the two weeks prior to the PISA test

- All students
- In schools attended by students who had skipped a whole school day
- In schools attended by students who had not skipped a whole school day



Notes: Statistically significant differences between schools attended by students who did not skip a whole school day and schools attended by students who skipped a whole school day are shown next to the country/economy name (see Annex A3).

Truancy refers to skipping a whole day of school at least once in the two weeks prior to the PISA test.

Countries and economies are ranked in ascending order of the percentage of all students skipping a whole school day in the two weeks prior to the PISA test.

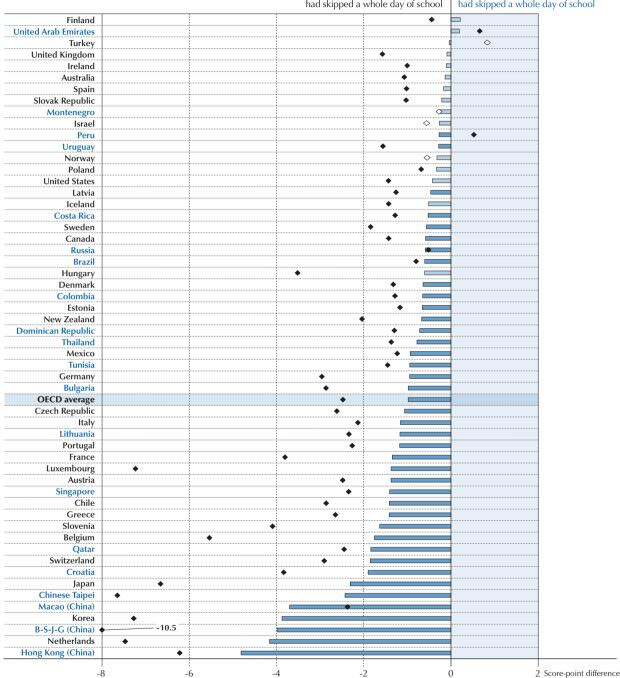
Source: OECD, PISA 2015 Database, Table II.3.7.



Figure II.3.5 ■ Schoolmate truancy and science performance

- ♦ Before accounting for respondent's truancy, and students' and schools' socio-economic profile¹
- After accounting for respondent's truancy, and students' and schools' socio-economic profile

Students score **lower** in science when more of their schoolmates had skipped a whole day of school Students score **higher** in science when more of their schoolmates had skipped a whole day of school



^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS).

Notes: Statistically significant differences are marked in a darker tone (see Annex A3).

Truancy refers to skipping a whole school day at least once in the two weeks prior to the PISA test.

Countries and economies are ranked in descending order of the score-point difference, after accounting for respondent's truancy, and students' and schools' ESCS.

Source: OECD, PISA 2015 Database, Tables II.3.8.

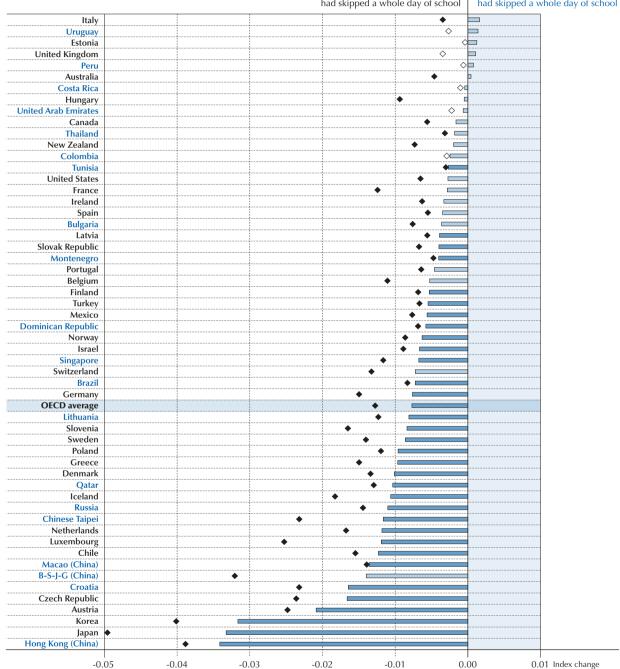


Figure II.3.6 ■ Schoolmate truancy and disciplinary climate in science lessons

Results based on students' reports

♦ Before accounting for respondent's truancy, and students' and schools' socio-economic profile¹
 ■ After accounting for respondent's truancy, and students' and schools' socio-economic profile

Worse disciplinary climate when more schoolmates had skipped a whole day of school **Better** disciplinary climate when more schoolmates had skipped a whole day of school



^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS).

Notes: Statistically significant differences are marked in a darker tone (see Annex A3).

Truancy refers to skipping a whole school day at least once in the two weeks prior to the PISA test.

Countries and economies are ranked in descending order of the change in the index of disciplinary climate, after accounting for respondent's truancy, and students' and schools' ESCS.

Source: OECD, PISA 2015 Database, Table II.3.9.



Figure II.3.5 shows that across OECD countries, students score lower on the PISA science test when more of their peers had skipped a whole day of school at least once in the two weeks prior to the PISA test, even after taking into account whether the student had skipped school himself/herself and the socio-economic status of students and schools. In 40 PISA-participating education systems, students score lower in science when more of their peers had skipped a day of school after accounting for the above factors; in no school system do students perform better in science when more of their peers had skipped a day of school.

When students play truant, how does the disciplinary climate in science class change?

According to interviews conducted by Wilson et al. (2008) in primary and secondary schools, some students argue that the disciplinary climate at school improves when troublemakers play truant ("it helps you, in a way, when they're [the troublemakers] not there"); some teachers also share this view. However, most teachers believe that school truancy increases resentment among students who attend school regularly, demoralises teachers and makes them feel guilty, and could disrupt the organisation of the entire school (Wilson et al., 2008). PISA 2015 findings (Figure II.3.6) show that, on average across OECD countries and in 33 education systems, students reported a better disciplinary climate when more of their peers attend school regularly, after accounting for the respondents' own truant behaviour and the students' and schools' socio-economic profile.

DISCIPLINARY CLIMATE

One of the goals of teachers is to create a classroom environment that is conducive to learning. This requires, first and foremost, keeping noise and disorder at bay and making sure that students can listen to what the teacher (and other students) say and can concentrate on academic tasks. Meaningful and visible learning is more likely to happen in these learning environments (Ma and Willms, 2004). PISA asked students how frequently the following things happen in their science lessons: "Students don't listen to what the teacher says"; "There is noise and disorder"; "The teacher has to wait a long time for students to quiet down"; "Students cannot work well"; and "Students don't start working for a long time after the lesson begins". These statements were combined to create the index of disciplinary climate whose average is zero and standard deviation is one across OECD countries.

Across OECD countries, the most common disciplinary problems in science lessons (among those included in the student questionnaire) are when students do not listen to what the teacher says and when there is noise and disorder in the classroom (Table II.3.10). For example, about one in three students reported that, in every or most sicience lessons, students do not listen to the teacher or that there is noise and disorder; 29% of students also reported that the teacher has to wait a long time for students to quiet down in every or most lessons; and one in four students or fewer reported that, in every or most science lessons, they cannot work well or have to wait for a long time to do so.

According to students' reports, the disciplinary climate in science lessons is better in advantaged than in disadvantaged schools, and in private than in public schools (Figure II.3.7). On average across OECD countries, the disciplinary climate is fairly similar in rural and urban schools. However, compared with the disciplinary climate in rural schools, the disciplinary climate in urban schools is particularly more positive in Australia, Italy, Qatar and Sweden, and more negative in Indonesia, the Russian Federation (hereafter "Russia") and Slovenia (Table II.3.11).

In all countries and economies, except Ciudad Autónoma de Buenos Aires (Argentina) (hereafter "CABA [Argentina]") and Korea, students who reported a better disciplinary climate in their science lessons perform better in science, after accounting for the socio-economic status of students and schools (Figure II.3.7). On average across OECD countries, every unit increase on the index of disciplinary climate in science lessons (equivalent to a standard deviation across OECD countries) is associated with an increase of 11 score points in science after accounting for the socio-economic status of students and schools (Table II.3.11).

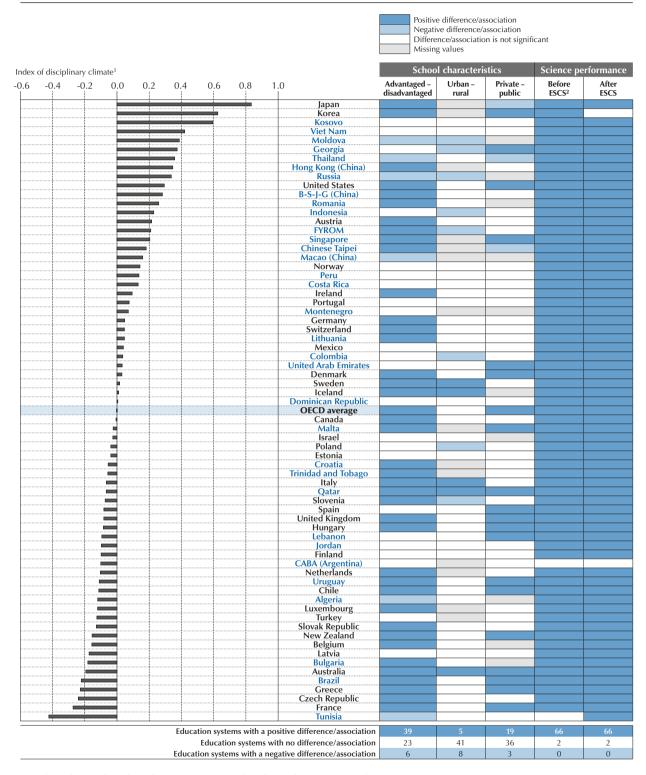
Student and teacher behaviour hindering learning

To examine the degree to which student behaviour influences learning, school principals were asked to report the extent ("not at all", "very little", "to some extent" or "a lot") to which they think that student learning in their schools is hindered by such factors as: student truancy; students skipping classes; students lacking respect for teachers; students using alcohol or illegal drugs; and students intimidating or bullying other students. The responses were combined to create an index of student behaviour hindering learning such that, across OECD countries, the mean is zero and the standard deviation is one. Positive values reflect principals' perceptions that students' behaviour hinders learning to a greater extent; negative values indicate that principals believe that students' behaviour hinders learning to a lesser extent, compared to the OECD average. Principals' answers to these questions are likely to reflect both how frequently these phenomena happen in their schools and, when they happen, how much they affect student learning.



Figure II.3.7 • Index of disciplinary climate in science classes, school characteristics and science outcomes

Results based on students' reports



^{1.} Higher values on the index indicate a more positive disciplinary climate in science lessons.

Countries and economies are ranked in descending order of the index of disciplinary climate.

Source: OECD, PISA 2015 Database, Table II.3.11.

^{2.} ESCS refers to the PISA index of economic, social and cultural status.



School principals were also asked to report the extent to which they believe that learning in their schools is hindered by such teacher behaviour as: teachers not meeting individual students' needs; teacher absenteeism; school staff resisting change; teachers being too strict with students; and teachers not being well-prepared for classes. The responses were combined to create an index of teacher behaviour hindering learning that has a mean of zero and a standard deviation of one in OECD countries. Positive values reflect principals' perceptions that these teacher-related behaviours hinder learning to a greater extent; negative values indicate that school principals believe that these teacher-related behaviours hinder learning to a lesser extent, compared to the OECD average.

According to school principals, instruction and learning in their schools take place in largely positive environments. On average across OECD countries, a considerable proportion of school principals reported that the student and teacher behaviour described above does not hinder learning at all, while only a small percentage reported that these factors hinder learning a lot (Tables II.3.12 and II.3.17). Across OECD countries, the behaviours (among either students or teachers) school principals mentioned most frequently as hindering learning a lot are students skipping classes or days of school; student use of alcohol or illegal drugs were the least frequently reported (Figure II.3.8).

However, there are large differences among PISA-participating countries and economies (Table II.3.12). According to principals in Algeria, Croatia, Russia and Tunisia, student truancy affects learning a lot; B-S-J-G (China), Jordan, and Trinidad and Tobago are the school systems where students' lack of respect for teachers is more of a problem; and in B-S-J-G (China), Macao (China) and Russia, more than 15% of students attend schools whose principal reported that students' use of alcohol or illegal drugs hinders learning a lot.

On the questions related to teachers, in Algeria, CABA (Argentina), Chile, B-S-J-G (China), Colombia, Italy, and Trinidad and Tobago, more than 10% of students attend a school whose principal reported that staff resisting change hinders learning a lot; and in Algeria, B-S-J-G (China), CABA (Argentina), Chile, Macao (China), Russia, Trinidad and Tobago, Tunisia and Uruguay, more than 10% of students attend a school whose principal reported that teacher absenteeism hinders learning a lot (Table II.3.17).

In 48 of 68 education systems, principals in socio-economically disadvantaged schools were more likely than principals in advantaged schools to report that student behaviour hinders learning (Figure II.3.9). Across PISA-participating countries and economies, principals in public schools also reported more student-related problems than principals in private schools did.

When considering teacher behaviour that hinders student learning, the largest differences are observed between public and private schools. In 33 of 59 education systems, principals in public schools reported more teacher-related problems hindering student learning than principals in private schools did (Table II.3.20). In Brazil, for example, there is a difference of more than 1.5 points (or standard deviations) on the index of teacher behaviour hindering learning between the two types of schools.

Trends in student and teacher behaviour

Across OECD countries, student behaviour seems to have deteriorated between 2012 and 2015, according to school principals (Table II.3.14). For instance, between 2012 and 2015 the percentage of students in schools whose principal reported that learning is not hindered at all by student truancy fell by 3 percentage points, and by more than 15 percentage points in CABA (Argentina), Romania and the United Arab Emirates. In 2015, school principals were also more likely than their counterparts in 2012 to report that students' use of alcohol and illegal drugs hinders student learning. Across OECD countries, the share of students attending schools whose principals reported that learning is not at all hindered by these problems fell by 9 percentage points during the period; in CABA (Argentina), Chile, Norway, Tunisia and Uruguay, this share shrank by at least 20 percentage points.

According to school principals, teacher behaviour also deteriorated between 2012 and 2015 (Table II.3.19). Across OECD countries, principals in 2015 were more likely than their counterparts in 2012 to report that student learning is hindered by teachers not meeting individual students' needs, teacher absenteeism, staff resisting change, teachers being too strict with students, and teachers not being well-prepared for classes. The incidence of teacher absenteeism, potentially the most serious of these problems, increased the most during this period, according to school principals, in CABA (Argentina), Ireland, Israel, Portugal, Switzerland and Turkey.



Figure II.3.8 • Student and teacher behaviour hindering learning

Results based on school principals' reports

Less than 10% of students
From 10% to 25% of students
More than 25% of students

		e than 25% of s								
	Percentage of students in schools where the school principal reported that the following phenomena hinder student learning to some extent or a lot:									
	Student truancy	Students skipping classes	Students lacking respect for teachers	Student use of alcohol or illegal drugs	Students intimidating or bullying other students	Teachers not meeting individual students' needs	Teacher absenteeism	Staff resisting change	Teachers being too strict with students	Teachers not being well- prepared for classes
Trinidad and Tobago	59	53	59	26	46	59	68	53	14	43
B-S-J-G (China) Russia	42 65	71	46 44	36	38 24	56 41	39 27	56 36	30 29	55 37
Tunisia	82	55	29	17	27	26	64	43	28	20
Croatia	79	74	56	21	16	29	13	47	22	26
Netherlands	28	34	29	23	35	67	41	44	27	41
Brazil	61	56	45	21	17	36	33	44	15	29
Costa Rica	63	66	19	33	23	32	30	37	19	19
Jordan Uruguay	55 55	33 42	40 20	11	23	31 30	39 61	45 52	27 13	30 29
Algeria	58	32	34	7	11	30	37	32	29	34
France	46	31	18	25	9	28	22	50	27	20
Macao (China)	21	20	20	19	25	52	35	32	18	25
Colombia	50	27	23	16	16	28	20	44	23	12
CABA (Argentina)	49	37	6	13	7	19	44	53	18	11
Moldova Chilo	63	38	33	8	21	14	11	30	16	22
Chile Belgium	18 29	22	21	9	14 26	28	35 36	42 44	23 17	29 22
Kosovo	62	30	27	8	10	24	17	24	32	17
Montenegro	86	56	18	5	7	16	13	17	20	13
Canada	56	51	12	28	13	21	10	38	11	9
Italy	36	38	13	6	5	24	13	61	28	23
Portugal	41	53	31	8	7	24	11	48	10	8
United States	46 48	31	18 11	19 17	14 16	28	17 14	33	15 25	13 11
Mexico Bulgaria	33	46	29	16	19	17	17	18	14	18
Austria	49	43	21	11	18	17	17	31	11	7
Slovenia	53	68	18	9	3	13	17	24	9	9
Norway	20	23	22	2	12	46	35	36	7	16
Peru	27	25	12	9	12	31	18	36	22	26
Finland	44	32	33	4	23	25	16	27	3	6
Malta Germany	10 23	11 19	36 20	7	34 20	39 22	16 40	29 34	17 11	14
Israel	49	42	19	4	1	19	33	16	11	13
Turkey	51	42	23	4	6	35	7	20	2	17
Australia	28	22	19	8	18	38	17	35	7	14
OECD average	34	33	20	9	11	23	17	30	13	12
Estonia	37	37	17	3	18	28	10	26	16	6
Sweden	27	47	19	4	13	32	19	21	3	11
New Zealand Slovak Republic	41 32	39 69	8 24	7 4	10	32 6	6	33 12	7 22	5
Ireland	51	15	12	16	12	18	11	28	10	8
Czech Republic	24	59	29	5	7	9	13	19	10	4
Luxembourg	50	26	23	0	2	14	14	38	4	2
Spain	27	26	26	3	8	17	4	37	15	11
Japan	14	11	18	1	5	23	9	38	26	29
Chinese Taipei Switzerland	11 27	12 25	17 15	9	12 16	27 17	7 9	36 32	18 5	20 6
United Arab Emirates	34	21	15	2	6	18	19	17	20	12
Dominican Republic	18	24	27	5	17	22	3	18	18	11
Latvia	44	36	28	5	7	9	5	13	12	4
Korea	24	20	33	14	8	16	2	13	20	10
Denmark	36	19	19	3	6	13	27	22	6	8
Romania	45	44	14	3	10	5	1	21	10	3
Thailand Poland	27 27	29 44	16 17	9	6 3	14 12	10	19	27 9	10
Iceland	18	18	11	1	7	26	13	32	5	12
Hong Kong (China)	8	4	17	0	4	35	10	38	15	13
Hungary	23	24	22	10	6	20	7	14	13	5
Lebanon	20	12	17	6	12	12	13	21	17	13
FYROM	45	20	16	4	4	15	3	14	14	1
Georgia Greece	31 26	23	13 15	5	8 5	10 7	10 7	8 19	6 10	16 6
United Kingdom	10	6	13	1	4	28	24	18	5	11
Albania	23	12	11	2	4	6	8	14	21	7
Viet Nam	32	18	5	2	5	16	2	5	11	13
Singapore	9	5	6	1	9	26	3	20	15	11
Lithuania	26	14	7	2	6	11	2	9	3	4
Qatar	13	20	10	6	9	6	6	6	3	4
Indonesia	25	12	9	1	3	5	5	1	13	5

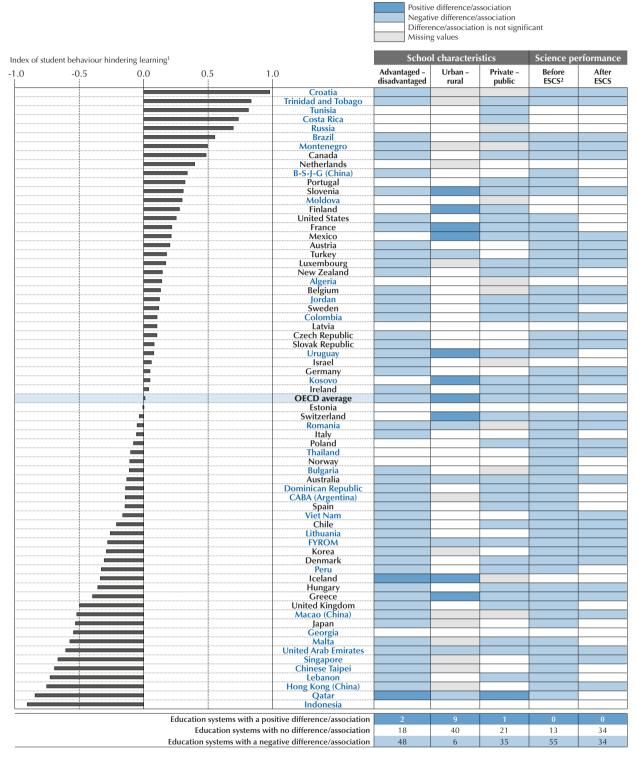
Countries and economies are ranked in descending order of the percentage of students in schools where the principal reported that the phenomena hinder student learning (average of 10 phenomena).

Source: OECD, PISA 2015 Database, Tables II.3.12 and II.3.17. StatLink | http://dx.doi.org/10.1787/888933435713



Figure II.3.9 Index of student behaviour hindering learning, school characteristics and science performance

Results based on school principals' reports



^{1.} Higher values on the index indicate that student behaviour hinders learning to a greater extent.

Countries and economies are ranked in descending order of the index of student behaviour hindering learning.

Source: OECD, PISA 2015 Database, Table II.3.15.

^{2.} ESCS refers to the PISA index of economic, social and cultural status.

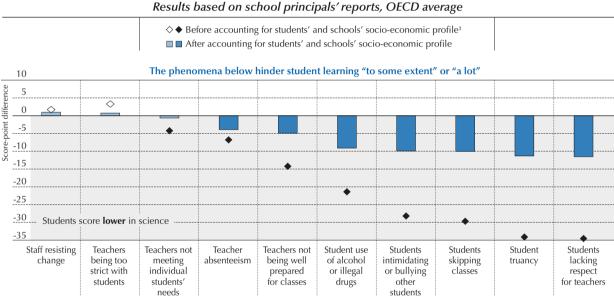


Relationship between student and teacher behaviour hindering learning, and science performance

In 55 of 68 PISA-participating countries and economies, students in schools whose principals reported more student-related problems affecting learning score lower in science (Figure II.3.9). This is true in 34 countries/economies after accounting for students' and schools' socio-economic profile. In Belgium, Luxembourg, and Trinidad and Tobago, students' scores in science drop by more than 40 points for every unit increase on the index of student behaviour hindering learning, before accounting for socio-economic status (Table II.3.15). On average across OECD countries, when school principals reported that teacher behaviour hinders learning, students also score lower in science, before accounting for students' and schools' socio-economic profile. This relationship is observed in 20 of 69 PISA-participating education systems, and in 10 systems after accounting for the socio-economic status of students and schools (Table II.3.20).

Student-related problems reported by the school principal, such as truancy or bullying, are more clearly related to science performance than teacher-related problems, such as teacher absenteeism or staff resisting change (Figure II.3.10). The most negative association with science performance, both before and after accounting for the socio-economic status of students and schools, is students lacking respect for their teachers, followed by student truancy, students skipping classes and students intimidating or bullying other students. By contrast, there is no association with performance when school principals reported that school staff resists change or that teachers are too strict with students.

Figure II.3.10 • Student and teacher behaviour hindering learning and science performance



1. The socio-economic profile is measured by the PISA index of economic, social and cultural status. **Note:** Statistically significant differences are marked in a darker tone (see Annex A3).

Source: OECD, PISA 2015 Database, Tables II.3.16 and II.3.21.

StatLink http://dx.doi.org/10.1787/888933435730

Teacher support to students

Students need support from school staff, particularly from their teachers, if they are to make the most of the learning opportunities available to them (Klem and Connell, 2004). Students, including those with at-risk profiles, show more positive attitudes and higher academic motivation if their teachers care about them, provide them with help when they need it, and let them express opinions and decide for themselves (Pitzer and Skinner, 2016; Ricard and Pelletier, 2016).

PISA asked students how often ("every lesson", "most lessons", "some lessons" or "never or hardly ever") their science teachers show an interest in every student's learning; give extra help when students need it; help students with their learning; continue teaching until students understand the material; and give students an opportunity to express their opinions. Students' responses were combined to create the index of teacher support in science classes such that, across OECD countries, the mean is zero and the standard deviation is one. Positive values indicate that students perceive that their science teachers support their learning.



In general, students are positive about how much support they get from their science teachers. On average across OECD countries, about two in three students answered "most lessons" or "every lesson" to each of the five questions on teacher support. For example, 38% of students in OECD countries, on average, reported that in every lesson the science teacher continues teaching until the students understand; and 40% reported that their teacher gives extra help when students need it (Table II.3.22). Countries where the largest proportions of students reported that their teachers support them include Albania, Costa Rica, the Dominican Republic, Kosovo, Mexico, Moldova and Portugal; countries with the smallest proportions of students who so reported include many whose education systems track students at a young age, including Austria, Belgium, Croatia, the Czech Republic, Germany, Hungary, Luxembourg, the Netherlands, the Slovak Republic, Slovenia and Switzerland (Table II.3.23).

Even if different response styles means that country comparisons need to be interpreted with caution, these results are not surprising. Selecting students into different types of schools results in more homogeneous classes, where whole-class teaching becomes more straightforward, and teachers need to pay less attention – "show interest", "give extra help" or "work with students" – to individual students. Figure II.3.11 shows how early tracking is related to the index of teacher support in science lessons across school systems: the later students are selected into separate tracks, the greater the support students reported receiving from teachers.

According to students' reports, teachers in disadvantaged schools support students in their learning more frequently than teachers in advantaged schools, as do teachers in rural as opposed to urban schools, and teachers in private as opposed to public schools (Figure II.3.12). The largest differences in favour of disadvantaged schools are observed in Bulgaria, Israel, Montenegro and the Slovak Republic, while the largest differences in favour of advantaged schools are observed in Australia, B-S-J-G (China), Japan and Singapore (Table II.3.23). The largest differences by type of school, in favour of private schools, are observed in Brazil, the Former Yugoslav Republic of Macedonia (hereafter "FYROM"), Georgia, Italy and Luxembourg.

0.8 ndex of teacher support in science lessons Jordan Peru 3. United States **Dominican Republic** Chile Albania 5. Iceland Qatar Brazil Mexico Georgia 7. Malta Portugal Costa Rica Thailand Canada 9. New Zealand United Arab Emirates Australia **Singapore** 11. United Kingdom Colombia 12. Finland **FYROM** Russia Turkey 0.2 B-S-J-G (China) Spain Sweden Lithuania Romania 4 Bulgaria 4 Ireland Denmark Greece Chinese Taipe 0.0 Norway Hong Kong (China) Montenegro - Israel Estonia Macao (China) Latvia Japan Italy -0.2 Poland France Switzerland Belgium Slovak Republic Czech Republic Hungary Luxembourg -0.4 Germany Slovenia Netherlands Austria 4

13

14

First age at selection in the education system

Figure II.3.11 • First age at selection in the education system and index of teacher support in science lessons

Source: OECD, PISA 2015 Database, Tables II.3.23 and II.4.27. StatLink http://dx.doi.org/10.1787/888933435743

10

-0.6

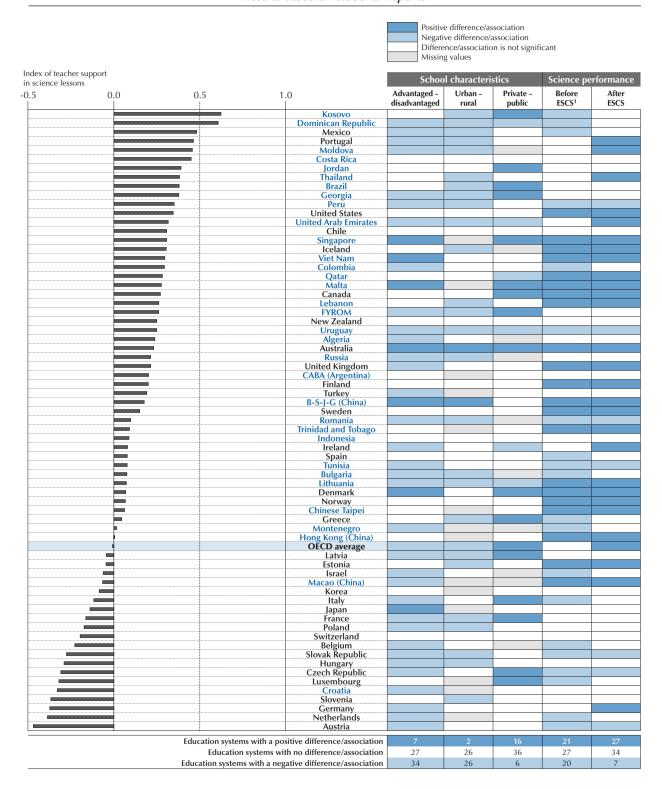
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11



Figure II.3.12 • Index of teacher support in science lessons, school characteristics and science performance

Results based on students' reports



 $^{1. \} ESCS \ refers \ to \ the \ PISA \ index \ of \ economic, \ social \ and \ cultural \ status.$

Countries and economies are ranked in descending order of the index of teacher support in science lessons.

Source: OECD, PISA 2015 Database, Table II.3.23.



Across OECD countries, teacher support is not associated with student performance in science before accounting for the socio-economic status of students and schools; but it becomes positive, on average across OECD countries and in 27 countries and economies, after accounting for the socio-economic status of students and schools (Figure II.3.12). Disadvantaged students are in greater need of teacher support, and they also tend to score lower in the PISA assessments, so once the analysis accounts for socio-economic status, the association between teacher support and science performance becomes positive in many education systems.

PARENTAL INVOLVEMENT

Parents are often expected to be partners with teachers and principals (Gunnarsson et al., 2009; Zhao and Akiba, 2009). This partnership can take the form of parents discussing education matters with their child; parents supervising their child's progress through education; parents communicating with the school; and parents actively participating in school activities. While the first two forms of parental involvement entail interactions between parents and their child, the latter two entail interactions between parents and the school (Ho and Willms, 1996). This section focuses only on those practices that require contact between parents and schools.

Getting involved at school allows parents to obtain first-hand information on the school learning environment, learn how to navigate the education system, demonstrate to their child that education is important, and control their child's behaviour by establishing consistent norms (Grolnick and Slowiaczek, 1994; Lareau, 1996; Muller and Kerbow, 1993). Previous studies have found that parental involvement in a child's education has a positive influence on student outcomes (Domina, 2005; Grolnick and Slowiaczek, 1994; Hill and Craft, 2003; Miedel and Reynolds, 2000), even if these effects are largely dependent on the quality of this involvement (Borgonovi and Montt, 2012).

Parental involvement can also contribute to a socially connected school where students, teachers, parents and the school principal share ideas and work together, usually to create a positive learning environment. Previous studies have found that supportive relationships among teachers, students and families can improve performance, particularly among disadvantaged students (Crosnoe, Johnson and Elder, 2004; Hughes and Kwok, 2007).

Legislation on parental involvement

PISA asked school principals to report if there is national, state or district legislation on including parents in school activities. Across OECD countries, 70% of students attend schools whose principal reported that there is such legislation. Perhaps not surprisingly, there are wide differences across education systems (Table II.3.24). Japan, where the question only refers to local/district legislation, is the only education system where almost no 15-year-old student (8%) attends a school whose principal reported that there is legislation on parental involvement. Similarly, in B-S-J-G (China), Macao (China), Singapore and the Slovak Republic, fewer than three in ten students attend schools whose principal answered "yes" to the question. However, in a majority of education systems, most school principals reported that legislation on including parents in school activities was in place at the time their students sat the PISA 2015 test. For example, in 34 countries and economies, more than three out of four students attend schools whose principal reported that such legislation exists. The percentages might even be higher, since some principals might not be aware of existing legislation on including parents in school activities.

School efforts to involve parents

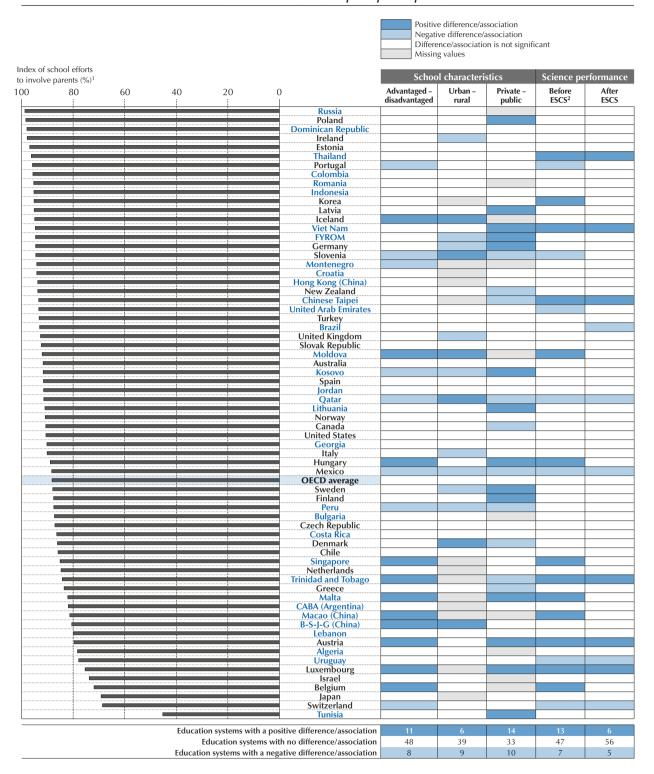
Some parents may not get involved at their child's school if they do not feel welcome or invited (Hoover-Dempsey and Sandler, 1997). Simply explaining to parents how to get more involved in their child's education can both lead to greater parental involvement and increase the extent to which students can take advantage of learning opportunities (Avvisati et al., 2014). But teachers do not always welcome parents' involvement. Some studies have found that teachers are more comfortable in partnerships where both teachers and parents play active roles in school matters – when teachers' professionalism and parents' empowerment coexist – but less so when teachers fear that their professional status and credibility may be at risk (Addi-Raccah and Ainhoren, 2009).

PISA asked principals if the following statements about parental involvement applied to their schools (principals could answer "yes" or "no"): "Our school provides a welcoming and accepting atmosphere for parents to get involved"; "Our school designs effective forms of school-to-home and home-to-school communications about school programmes and children's progress"; "Our school includes parents in school decisions"; and "Our school provides information and ideas for families about how to help students at home with homework and other curriculum-related activities, decisions and planning". The four questions were combined into an index of school efforts to involve parents. A value of zero on the index means that school principals replied "no" to all four questions, and a value of 100 means that they answered "yes" to all four questions.



Figure II.3.13 ■ School efforts to involve parents, school characteristics and science performance

Results based on school principals' reports



^{1.} The index of school efforts to involve parents is the percentage of statements about parental involvement that apply to the school (see Table II.3.26 for the list of statements).

Countries and economies are ranked in descending order of the index of school efforts to involve parents.

Source: OECD, PISA 2015 Database, Table II.3.27.

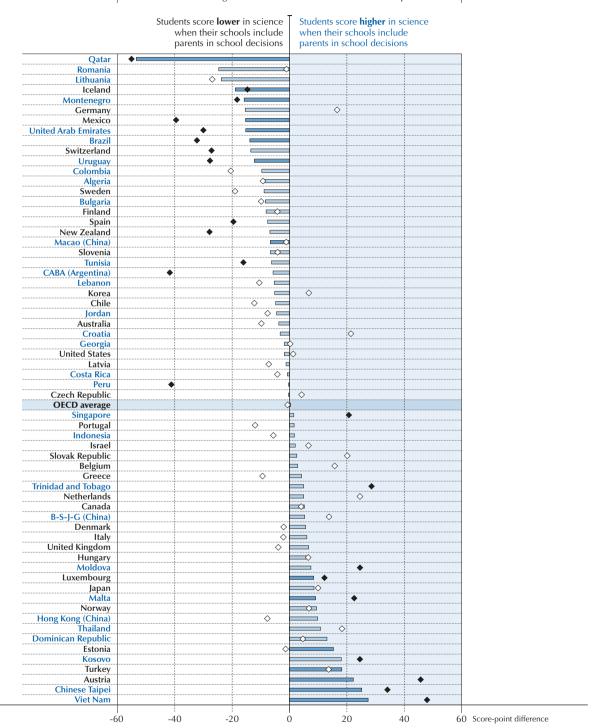
 $^{2.\} ESCS$ refers to the PISA index of economic, social and cultural status.



Figure II.3.14 • Including parents in school decisions and science performance

Results based on school principals' reports

- ♦ ◆ Before accounting for students' and schools' socio-economic profile¹
- After accounting for students' and schools' socio-economic profile



^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS).

Note: Statistically significant differences are marked in a darker tone (see Annex A3).

Countries and economies are ranked in ascending order of the score-point difference in science performance when students are in schools that include parents in school decisions, after accounting for students' and schools' ESCS.

Source: OECD, PISA 2015 Database, Table II.3.28.



Given that school principals were only given the choice of answering "yes" or "no" and that principals' responses might have been coloured by social desirability (providing answers that are viewed as socially preferred), it is not surprising that principals tended to answer affirmatively to the questions about their efforts to involve parents in school matters (Table II.3.26). On average across OECD countries, more than nine in ten students attend schools whose principal reported that the school provides a welcoming and accepting atmosphere for parents to get involved, and that the school designs effective forms of school-to-home and home-to-school communications about school programmes and children's progress. However, fewer school principals reported that parents are included in school decisions, probably because this question is about giving parents a real say in school matters (parent empowerment). Across OECD countries, three out of four students attend schools whose principal reported that parents are included in school decisions; in several countries and economies, such as CABA (Argentina), Greece, Japan, Macao (China), Singapore, Switzerland, Tunisia and Uruguay, fewer than one in two students attends such schools.

Again because principals' responses likely reflect, to some extent, social desirability, there are few school systems where there are differences across types of schools (Figure II.3.13). On average across OECD countries, there are no significant differences in schools' efforts to involve parents between advantaged and disadvantaged schools, nor between rural and urban schools, nor between public and private schools. The association with student performance is also weak, before and after accounting for the socio-economic profile of students and schools.

When considering only the question of whether parents are invited to participate in school decision making, there is virtually no difference in science scores on average across OECD countries, but there is a wide variation across education systems (Figure II.3.14). In Qatar, students in schools whose principal reported that parents are involved in school decisions score 53 points lower, and in Iceland, students score 19 points lower in the PISA science assessment, after accounting for socio-economic status. By contrast, in Austria, Chinese Taipei and Viet Nam, students in schools whose principals so reported score at least 20 points higher in science.

Parental involvement in school activities

PISA asked parents to report if, during the previous academic year, they had participated in the following ten school-related activities (parents could answer "yes", "no" or "not supported by the school"): "discussed my child's behaviour with a teacher on my own initiative"; "discussed my child's behaviour on the initiative of one of his/her teachers"; "discussed my child's progress with a teacher on my own initiative"; "discussed my child's progress on the initiative of one of his/her teachers "; "participated in local school government"; "volunteered in physical or extracurricular activities"; "volunteered to support school activities"; "attended a scheduled meeting or conferences for parents"; "talked about how to support learning at home and homework with my child's teachers"; and "exchanged ideas on parenting, family support, or the child's development with my child's teachers". The answers were combined to create the index of parental involvement in school-related activities, which is simply the number of questions or activities to which parents answered "yes", ranging from zero to ten activities. Only 18 countries and economies distributed the parents' questionnaire.

Parents in Belgium (Flemish community), France, Ireland, Luxembourg and the Scotland (United Kingdom) reported that they had participated in about three of the ten activities, on average (Table II.3.31). By contrast, parents in Chile, the Dominican Republic and Georgia reported that they had participated in at least five school-related activities, on average, during the previous academic year.

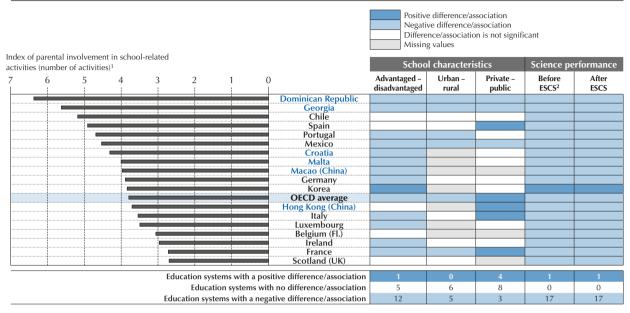
On average across the education systems that distributed the parents' questionnaire, parents of children who attend socio-economically disadvantaged schools reported having participated in more school-related activities than parents of children who attend advantaged schools (Figure II.3.15). Parents of children who attend rural schools are also more likely than parents of children who attend urban schools to have participated in school-related activities. And, only across OECD countries, parents of children enrolled in private schools participated in more school-related activities than those whose children attend public schools.

Interestingly, in all education systems except that in Korea, students whose parents reported greater participation in school activities score lower in science, both before and after accounting for the socio-economic profile of students and schools. When considering the individual questions, across the 18 education systems that distributed the parents' questionnaire, the strongest negative associations with science performance are observed when parents reported that they had discussed their child's behaviour or progress with teachers during the previous academic year, after accounting for the school disciplinary climate and socio-economic status. The only positive association with science performance is observed when parents reported that they had attended a scheduled meeting or conference for parents. In these instances, students score 10 points higher in science, after accounting for socio-economic status and the school's disciplinary climate (Figure II.3.16).



Figure II.3.15 • Index of parental involvement in school-related activities, school characteristics and science performance

Results based on parents' self-reports



^{1.} The index of parental involvement in school-related activities is the average number of school activities in which parents reported to have participated.

2. ESCS refers to the PISA index of economic, social and cultural status.

Note: Only countries and economies that distributed the parent questionnaire are shown.

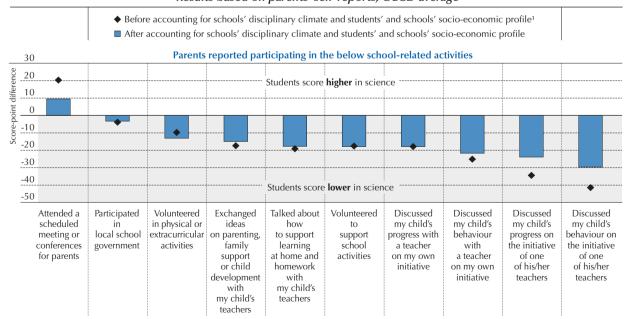
Countries and economies are ranked in descending order of the index of parental involvement in school-related activities.

Source: OECD, PISA 2015 Database, Table II.3.31.

StatLink http://dx.doi.org/10.1787/888933435781

Figure II.3.16 - Parental involvement in school-related activities and science performance

Results based on parents' self-reports, OECD average



^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status.

Note: All differences are statistically significant (see Annex A3).

Source: OECD, PISA 2015 Database, Table II.3.32.



Given these results, and also looking at the countries where parents had participated more in school activities, it seems that parents participate more where they are needed more – such as in schools where student problems, such as poor discipline, truancy or disengagement, cannot be solved without involving parents (see Volume III for more in-depth analyses of how parental involvement can influence students' well-being). After all, participating in school activities is challenging and time-consuming for school staff and parents, and only serious problems may warrant such collaboration.

This is not to say that the involvement of parents is of little value; on the contrary, getting parents involved may be the only way to solve serious behavioural problems at school, and constructive involvement of parents may create a positive environment for student learning (Avvisati et al., 2014; Hill and Taylor, 2004; McNeal, 1999; Sui-Chu and Willms, 1996). Some studies also suggest that a low level of parental involvement may reflect parents' trust in teachers (Addi-Raccah and Arviv-Elyashiv, 2008) or a model of school governance based on the understanding that teachers control the instructional process and parents provide support or simply delegate their academic responsibilities (Bauch and Goldring, 1998).

How are legislation on parental involvement, school efforts to involve parents in school activities, and actual parental involvement related?

Across education systems, there are substantial differences in how governments and schools encourage parental involvement in school matters and how actions are related to the actual involvement of parents. Some parental involvement is spontaneous, or "bottom-up", in the sense that it is mostly voluntary; other involvement is induced, or "top-down", for instance, when it follows intervention programmes by schools or education authorities (Desforges and Abouchaar, 2003). But to what extent can governments induce schools to promote parents' involvement in school activities? PISA cannot directly answer this question, but can show how both types of parental involvement are associated across education systems.

Across OECD countries, school principals reported that they make more efforts to engage parents in school matters when they also reported that there is national, state or district legislation on including parents in school activities (Table II.3.25). For instance, across OECD countries, school principals were six times more likely to say that their schools include parents in school decisions when there is legislation on including parents in schools activities than when there is no such legislation.

However, parents were only slightly more likely to agree that their child's school makes an effort to involve them in their child's education, or to participate in more school activities, when the school makes a greater effort to involve them (Table II.3.29). The correlations between school efforts to involve parents and parents' perceptions of these efforts are always in the expected direction – greater school efforts are associated with parents agreeing that the school is making such efforts – but below 0.1 in all the education systems that distributed the parent questionnaire. The correlations between school efforts to involve parents and actual parental involvement are also in the expected direction but still below 0.15 in all education systems.

SCHOOL LEADERSHIP

School leaders not only manage administrative tasks, such as budgeting, staffing and planning the maintenance of school buildings, but also play a key role in education by actively shaping the school culture (Barber, Whelan and Clark, 2010; Hallinger and Heck, 1998; Leithwood and Jantzi, 2006; Pont, Nusche and Moorman, 2008). The most effective schools are led by principals who define, communicate and build consensus around the school's education goals, ensure that the curriculum and instructional practices are aligned with these goals, and foster healthy social relationships within the school community (Branch, Hanushek and Rivkin, 2013; Grissom, Loeb and Master, 2013; Heck, Larsen and Marcoulides, 1990; Murphy, 1990).

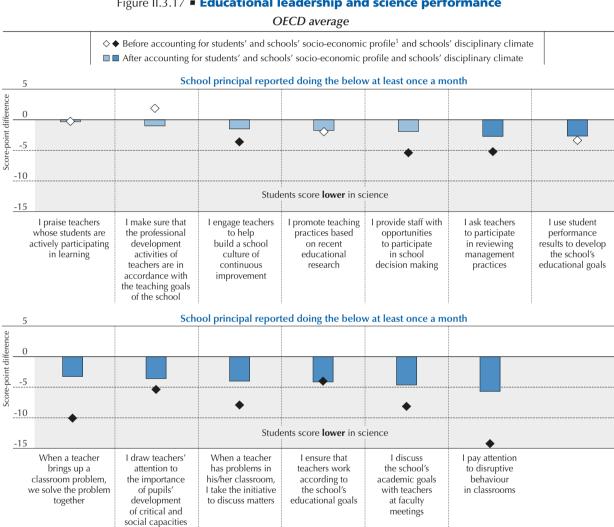
School principals who shape the learning environment often:

- develop the school mission and goals
- set and communicate learning standards
- collaborate with teachers on curriculum, instruction and assessment
- plan professional development
- promote teacher collaboration
- involve teachers in decision making
- foster a positive school climate and control disruptive behaviour
- plan school activities that help students develop social and emotional skills
- create ways to involve parents and the local community in school life.



The PISA school questionnaire focuses mainly on how school leaders create a positive learning environment by building effective teacher-principal relationships. PISA 2015 asked school principals to report how frequently ("did not occur", "1-2 times during the year", "3-4 times during the year", "once a month", "once a week", or "more than once a week") 13 actions and behaviours related to school management occurred in the previous academic year. These actions and behaviours are combined to create the index of educational leadership; they are also divided into four groups to create four sub-indices of educational leadership: curricular, instructional, professional development and teachers' participation.² All indices have been standardised so that the OECD mean is zero and the standard deviation is one. Some of the answers given by school principals may be coloured by social desirability, particularly those referring to leadership styles that are positively viewed by others, so over-reporting should be considered when interpreting the findings.

Figure II.3.17 • Educational leadership and science performance



1. The socio-economic profile is measured by the PISA index of economic, social and cultural status.

Note: Statistically significant differences are marked in a darker tone (see Annex A3).

Source: OECD, PISA 2015 Database, Table II.3.41.

StatLink http://dx.doi.org/10.1787/888933435807

Almost all school principals reported doing all of the leadership activities at least once during the previous year (Table II.3.33). Across OECD countries, more than nine out of ten students are enrolled in schools whose principal undertook each of the 13 management activities at least once per year. More than 60% of students attend schools whose principal reported that, at least once a month, he or she "praises teachers whose students are actively participating in learning" (63% of students attend such schools); "takes the initiative to discuss matters" when a "teacher has problems in his/her classroom" (68%); "provides staff with opportunities to participate in school decision making" (72%); "engages



teachers to help build a school culture of continuous improvement" (73%); "solves the problem together" with teachers when they "bring up a classroom problem" (78%); or "pays attention to disruptive behaviour in classrooms" (82%). Of the management activities considered, using student performance to develop the school's educational goals and asking teachers to participate in reviewing management practices are the leadership activities in which school principals engage the least frequently.

Principals in Brazil, the United Kingdom and the United States were the most likely to report being engaged in educational leadership activities while those in Hong Kong (China), Japan and Switzerland were the least likely to report so (Table II.3.36). On average across OECD countries, principals of private and public schools reported similar levels of educational leadership, while principals of disadvantaged and urban schools reported somewhat higher levels of educational leadership than those of advantaged and rural schools, respectively. Similar results are also observed for the four sub-indices of school leadership: curricular leadership, instructional leadership, professional development and teachers' participation (Tables II.3.37 to II.3.40). Curricular and instructional leadership activities appear to be more common in urban schools, and activities related to professional development and teachers' participation are reported more frequently by principals of disadvantaged schools (and for teachers' participation, also rural schools).

On average across OECD countries, all the indices on school leadership are negatively related to science performance, after accounting for socio-economic status, even if this negative association is only observed in a smaller number of education systems (Tables II.3.36 to II.3.40). When comparing individual questions, and after accounting for the schools' disciplinary climate and the socio-economic profile of students and schools, the strongest negative association with science performance is observed when school principals reported that they pay attention to disruptive behaviour in classrooms at least once a month (instead of less than once a month); and the weakest negative association is observed when principals reported that, at least once a month, they praise teachers whose students actively participate in learning (Figure II.3.17). These findings, particularly the differences in the associations with science performance before and after accounting for the schools' disciplinary climate when the questions refer to "problems" or "disruptive behaviour", suggest that school leaders may (need to) show more active leadership when the learning environment deteriorates and student problems arise.



Notes

- 1. Note that despite referring to student truancy in this chapter, the questions in PISA refer to both authorised and unauthorised absences from school.
- 2. See Boxes II.2.1, II.2.2 and II.2.3 in Chapter 2 for a description of how PISA defines socio-economically disadvantaged and advantaged schools, public and private schools, and urban and rural schools.
- 3. The sub-index of curricular leadership includes the following: "I use student performance results to develop the school's educational goals"; "I make sure that the professional development activities of teachers are in accordance with the teaching goals of the school"; "I ensure that teachers work according to the school's educational goals"; and "I discuss the school's academic goals with teachers at faculty meetings". The sub-index of instructional leadership includes the following: "I promote teaching practices based on recent educational research"; "I praise teachers whose students are actively participating in learning"; and "I draw teachers' attention to the importance of pupils' development of critical and social capacities". The sub-index of professional development includes the following: "When a teacher has problems in his/her classroom, I take the initiative to discuss matters"; "I pay attention to disruptive behaviour in classrooms"; and "When a teacher brings up a classroom problem, we solve the problem together". The sub-index of teachers' participation include the following: "I provide staff with opportunities to participate"; "I engage teachers to help build a school culture of continuous improvement"; and "I ask teachers to participate in reviewing management practices".

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School governance, assessment and accountability

This chapter examines the governance of school systems, assessment practices and accountability procedures and how they are related to student performance across PISA-participating countries and economies. It examines school autonomy; teachers' participation in school governance; public and private involvement in governance; school choice; policies on examinations, assessment practices and purposes; quality assurance; and the use of achievement data.

A note regarding Israel

The statistical data for Israel are supplied by and under the responsibility of the relevant Israeli authorities. The use of such data by the OECD is without prejudice to the status of the Golan Heights, East Jerusalem and Israeli settlements in the West Bank under the terms of international law.

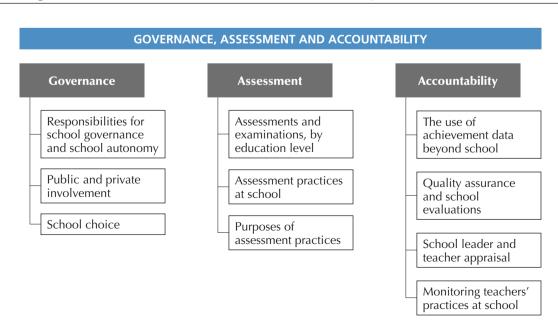


In most middle- and high-income countries, compulsory education is guaranteed by the state and realised through education authorities, stakeholders and/or independent agencies. Governing these complex education systems requires balancing responsiveness to local diversity with the ability to deliver high-quality and equitable education to all students, regardless of their social background, abilities and interests (see Box II.4.1). To do this, decisions must be taken on the roles of principals, teachers, parents, school governing boards, governments and private organisations in managing schools, on the level of competition among schools, and on how students are assessed, how teachers' practices are monitored, how school leaders are appraised, and how schools are held accountable for the quality of the education they provide (Figure II.4.1).

What the data tell us

- Schools in the Czech Republic, Lithuania, Macao (China), the Netherlands and the United Kingdom enjoy the greatest autonomy while those in Greece, Jordan, Tunisia and Turkey are granted the least autonomy. In education systems where school principals hold greater responsibility for school governance, students score higher in science; and this relationship is stronger in school systems where the percentage of students whose achievement data are tracked over time and posted publicly is higher than the OECD average.
- Across OECD countries, 84% of students attend public schools, 12% attend government-dependent private schools and 4% attend private independent schools. Students in private schools score higher in science than students in public schools; but after accounting for the socio-economic profile of students and schools, students in public schools score higher than students in private schools on average across OECD countries and in 22 education systems.
- Students whose parents consider the distance to school and school expenses when choosing a school for their child score lower in science, even after accounting for the socio-economic profile of students and schools.
- Standardised tests are used extensively across PISA-participating countries and economies. In about five out of
 six school systems, more than one in two students are assessed at least once a year with mandatory standardised
 tests, and in about three out of four countries, more than one in two students are assessed at least once a year
 with non-mandatory standardised tests.
- Almost all schools that participated in PISA 2015 use internal evaluations, written specifications of the school's curriculum and education goals, and systematic recording of data, including test results and graduation rates, for quality assurance and improvement.

Figure II.4.1 • Governance, assessment and accountability as measured in PISA 2015





Box II.4.1. Governing complex education systems

Over the last few decades, many OECD countries have decentralised control of their education systems, giving schools and local school authorities greater autonomy to respond more directly to citizens' needs. As evidence about school and student achievement has become more readily available, parents and other stakeholders (such as teachers, students and labour unions) have become more demanding and involved in decision making about education. The increased complexity in governance arrangements, accompanied by a rise in the number of stakeholders and in the availability and use of evaluation and accountability data, calls for a new approach to governance (Burns and Köster, 2016).

Education systems are, in fact, complex systems: they are networks of interdependently linked actors whose actions affect all other actors, and that evolve, adapt, and re-organise themselves. Complex systems do not work in a linear manner but rather exhibit a series of well-defined characteristics: tipping points, feedback loops, path dependence and sensibility to local contexts (Snyder, 2013).

Complexity

Understanding complexity is important for policy making and reform, as complex systems cannot be successfully governed with the simple, linear mechanisms of the traditional policy cycle. Simply devolving power to local authorities will not improve the functioning of the system unless it is also accompanied by attention to the connections and interactivity present. This interactivity means that a single intervention may generate both positive and negative effects in different parts of the system. For example, disclosing information about school performance might have a very different impact on a school that is thriving than on a school that struggles to attract well-performing students. Space must thus be made to facilitate and use the constant feedback required to guide complex systems when designing and implementing reforms. Although it might be tempting to look for easy, one-size-fits-all policy responses for a specific problem, simple solutions to complex problems are doomed to fail. Public governance must remain flexible enough to learn from and adapt to specific circumstances.

Five elements of modern governance for complex systems

Modern education governance must be able to juggle dynamism and complexity at the same time as it steers a clear course towards established goals. And it must do this as efficiently as possible, with limited financial resources. Successful modern education governance:

- Focuses on processes, not structures. Almost all governance structures can be successful under the right conditions. The number of levels, and the power at each level, is not what makes or breaks a good system. Rather, it is the strength of the alignment across the system, the involvement of actors, and the processes underlying governance and reform.
- Is flexible and able to adapt to change and unexpected events. Strengthening a system's ability to learn from feedback is a fundamental part of this process, and is also a necessary step to quality assurance and accountability.
- Works through building capacity, stakeholder involvement and open dialogue. However it is not rudderless: involvement of more stakeholders only works when there is a strategic vision and set of processes to harness their ideas and input.
- Requires a whole-of-system approach. This requires aligning policies, roles and responsibilities to improve efficiency and reduce potential overlap or conflict (e.g. between accountability and trust, or innovation and risk-avoidance).
- Harnesses evidence and research to inform policy and reform. A strong knowledge system combines descriptive
 system data, research findings and expert practitioner knowledge. The key is knowing what to use, when, why
 and how.

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HOW SCHOOL SYSTEMS ARE GOVERNED

Responsibilities for school governance and school autonomy

Among the many decisions that education authorities and schools have to make, those concerning the way responsibilities for education are distributed and managed have a direct impact on teaching and learning. Since the early 1980s, many school systems, such as those in Australia, Canada, Finland, Hong Kong (China), Israel, Singapore, Spain, Sweden and the United Kingdom, have granted individual schools greater authority to make decisions about curricula and resource allocation (Cheng and Lee, 2016; Fuchs and Woessmann, 2007; Wang, 2013). The underlying premise is that individual schools have highly qualified teachers and strong leaders who are good judges of their students' learning needs, and who can (re)design and implement rigorous curricula, internal evaluations and accountability mechanisms without feeling overloaded (Caldwell and Spinks, 2013; Department for Education, 2010; Hanushek, Link and Woessmann, 2013). Such school-based management involves increasing principals' decision-making responsibility and accountability and, in some cases, the management responsibilities of teachers or department heads. Yet school systems differ in the degree of autonomy granted to schools and in the domains over which autonomy is awarded to schools.

PISA 2015 asked school principals to report whether the teachers, the principal, the school's governing board, the regional or local education authorities, the national education authority,¹ or a combination of them, have considerable responsibility for allocating resources to schools (appointing and dismissing teachers; determining teachers' starting salaries and salary raises; and formulating school budgets and allocating them within the school), for the school curriculum (choosing textbooks; deciding which courses are offered; and determining the content of those courses), and for establishing student assessment, disciplinary and school admissions policies.²

Across OECD countries, most students are in schools whose principal reported having considerable responsibility for hiring (70% of students attend such schools) or firing teachers (57% of students attend such schools), but fewer than one in four students attends a school whose principal reported having considerable responsibility for establishing teachers' starting salaries (20%) or salary increases (23%) (Table II.4.1). More than half of students are in schools whose principal reported having considerable responsibility over budgetary issues, including deciding how the budget should be allocated within the school; over disciplinary, assessment and admissions policies; and also over which courses are offered at school. Across education systems, differences in the responsibility for hiring and firing teachers are particularly large. In Greece, Jordan, Tunisia and Turkey, fewer than one in ten students attends schools whose principals reported having considerable responsibility over hiring, while in the Czech Republic, Iceland, Montenegro and Sweden, virtually all students are in schools whose principals reported having such responsibility.

According to school principals in most PISA-participating countries, teachers have limited input about their working conditions (hiring, firing and salaries), school budgetary matters or admissions policies (Table II.4.1). They have more responsibility for disciplinary and assessment policies, choosing textbooks and course content, with around six in ten students or more, across OECD countries, attending schools whose principal reported that teachers have considerable responsibility for these issues. About half of students attend schools whose principal reported that teachers have considerable responsibility over which courses are offered at school. Despite having substantial responsibility over curricula across most PISA-participating education systems, there are some countries in which teachers appear to have little autonomy in choosing textbooks, determining course content or deciding which courses are offered. For example, in Greece and Jordan, fewer than one in ten students attends a school whose principal reported that teachers have considerable responsibility over selecting textbooks, courses on offer or course content.

School boards have less responsibility over school management than other stakeholders, according to school principals (Table II.4.1). Their main responsibilities lie in budgetary issues (on average across OECD countries, about one in three students attends a school whose principal said that school boards have considerable responsibility over formulating the school budget or allocating it within the school) and for disciplinary policies; they also appear to have some say over which courses are offered.

But the nature and composition of school boards vary widely across countries (see Box II.4.2). This is reflected in the role they play in managing schools across different education systems. In Croatia, for example, more than three in four students are in schools whose principals reported that school boards have considerable responsibility over firing and hiring teachers; in the Dominican Republic and the Former Yugoslav Republic of Macedonia (hereafter "FYROM"), more than seven in ten students are in schools where school boards have responsibility for formulating the budget; and in Singapore, at least six in ten students are in schools whose principals reported that school boards play a large role in decision making related to the school budget, discipline, assessment and curriculum.



Box II.4.2. School governing boards around the world

A school governing board, also known as a school leadership board or a school governing committee, is a group of individuals that is responsible for making certain decisions related to either a particular school or a network or group of schools. The board often shares responsibility with a higher-level government agency, such as a national or provincial/state department of education, that sets a framework within which the school governing board has a degree of discretion. However, school governing boards differ widely across countries in their composition and function.

Who sits on school governing boards?

School governing boards can be internal, comprising only school staff, parents and students; external, incorporating members of the community at large; or a combination of the two (OECD, 2010). For example, in Denmark, parents and students elect representatives for the board from among themselves, with parents making up at least half of the members of the board (UVM, 2015). Both academic and administrative staff members also sit on the board, and the local government can include representatives of the local business community or non-profit organisations, or those associated with other schools in the locality.

A similar system exists in South Korea, where parents and teachers elect both their own representatives and a group of community leaders¹ (MOE, 2015). There can be anywhere from 5 to 8 members on the governing board of schools with fewer than 200 students, to between 13 and 15 members on the board of schools with over 1 000 students. The composition of these boards is evenly split among parents, teachers and community members.² In Spain, the school board is composed of the school director, the head teacher, a representative from the city council, a group of teachers (elected among themselves), which makes up at least one-third of the board, a group of students and parents (elected among themselves), which makes up another third of the board, and a representative from the administrative staff³ (BOE, 2013).

In Canada, most school boards⁴ are elected by the local community to preside over certain aspects of the school system in the community (CSBA, 2015), while in the United States, most are appointed by the state governor (NASBE, 2016). School boards in these countries are responsible not just for one school, but for an entire network of schools, ranging from primary to upper secondary level. School staff, parents and students are excluded from these boards.

What do school governing boards do?

School governing boards also vary in their responsibilities. School boards in Spain, for example, are informed about school admissions and disciplinary problems at the school, they analyse and evaluate the school's annual programme, participate in the election of the school principal, and propose actions to improve the school facilities and the learning environment (BOE, 2013).

Portuguese school boards have a complex structure with four branches that, together, oversee a wide variety of tasks (Eurydice, 2016):

- The general board elects the school principal, approves the "educational project" and annual/multi-year activity plans, examines the results of the school's self-evaluation, participates in the principal's performance evaluation, and helps establish relationships with other schools.
- The school principal prepares the budget, assigns staff teaching and non-teaching duties, nominates heads of
 departments, selects and recruits teaching staff, manages school facilities and other educational resources,
 evaluates performance, and represents the school.
- The pedagogic board develops the "educational project" and annual/multi-year activity plans, organises professional
 development programmes for staff, adapts the curriculum to the school's needs, chooses textbooks, sets up the
 framework for hiring teachers and creating class timetables, and participates in teachers' performance evaluations.
- The administrative board manages the budget.

School governing boards in the French Community of Belgium have a smaller set of duties (Communauté française de Belgique, 1997). They discuss the school's education plan and monitor its implementation, proposing adjustments if necessary. They also audit the costs accrued during the year, particularly for cultural and athletic activities, and provide a mechanism for students from poorer families to pay for such activities.

•••



Elected school boards in Canada and the United States are responsible for employing a superintendent, hiring teachers, and maintaining and improving facilities (OPSBA, 2014). More generally, they manage much of the financial aspects related to providing education; indeed, they often have the power to impose taxes and general school fees in order to do so. The curriculum, however, is usually designed by the state or province.

This contrasts with the situation in Hungary, where the National Education Act does not mandate school governing boards (Nemzeti Jogszabálytár, 2011). As a consequence, school governing boards have traditionnally played a minor role in Hungary (Szekszárdi, 2006).

Notes

- 1. Community leaders include experts in law or accounting, civil servants, alumni, local business owners and, more generally, anyone in the community who is committed to improving education.
- 2. Parents often make up slightly more of the school governing board than either teachers or community leaders.
- 3. The school secretary also serves as the secretary of the school governing board. He/she may participate in the discussions but does not receive a vote.
- 4. Education in the three sparsely-populated Canadian territories, for example, is administered directly by the territorial government. Further oversight is provided by a committee at each school, however.

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In general, local, regional and national authorities have greater responsibility over resources, especially over establishing teachers' starting salaries and salary increases, than over disciplinary, assessment or admissions policies, or over the curriculum (Table II.4.1). However, in some education systems, school principals reported that regional or national authorities have considerable responsibility over these issues too. For instance, a majority of principals in Beijing-Shanghai-Jiangsu-Guangdong (China) (hereafter "B-S-J-G [China]") and the federal states of Switzerland and the United States reported that local or regional authorities have considerable responsibility over the curriculum, specifically in determining course content, and deciding which courses are offered and which textbooks will be used. In more centralised education systems, such as those in Croatia, Greece, Luxembourg, Tunisia and Turkey, the national government was cited as holding considerable responsibility over assessment policies and the curriculum.



Changes between 2009 and 2015 in the allocation of responsibilities for school governance

On average across OECD countries, between PISA 2009 and PISA 2015, the allocation of responsibilities for school governance changed (Table II.4.4). Fewer students in 2015 than in 2009 attended schools whose principal reported that they hold considerable responsibility for selecting teachers for hire, formulating the school budget, deciding budget allocations, determining which courses are offered, and establishing assessment, disciplinary and school admissions policies. During the same period, less responsibility for those five tasks was allocated to teachers, according to principals, but teachers exercised greater autonomy over selecting other teachers for hire in 2015 than they did in 2009.

According to principals' reports, school governing boards had fewer responsibilities in 2015 than in 2009, particularly for any tasks related to the school budget. Local or regional education authorities held greater responsibility for the school budget in 2015 than in 2009, but held less responsibility in 2015 than in 2009 for selecting teachers for hire and deciding which courses are offered. National authorities held greater responsibility for three of the tasks in 2015 than in 2009, but held less responsibility for the curriculum in 2015 than in 2009.

In some education systems, how responsibilities are shared between schools and education authorities also changed between 2009 and 2015 (Table II.4.4). For instance, principals in Lithuania gained considerable responsibility for most tasks, particularly for teachers' salaries and the school budget. These responsibilities appear to have been transferred mainly from national education authorities. In Finland, school principals exercised greater autonomy over selecting and firing teachers in 2015 than in 2009, but had less responsibility for the curriculum and for assessment and disciplinary policies. In Hungary, school principals had considerably less autonomy in 2015 than in 2009 over tasks related to resources. According to school principals, these responsibilities appear to have been transferred mostly to local and regional authorities. In Germany and the United States, larger proportions of school principals in 2015 than in 2009 reported that local or regional education authorities held considerable responsibility for school governance. Reports from school principals in Qatar indicate that national education authorities gained considerable responsibility for all tasks between 2009 and 2015. In Turkey, national education authorities gained responsibility for all tasks except those related to school resources and textbooks; and in Slovenia, national education authorities gained greater responsibility for selecting and firing teachers, for the curriculum, and for disciplinary and admissions policies.

Figure II.4.2 presents a summary of "who is responsible for what" in managing schools across OECD countries. On average across OECD countries, establishing teachers' starting salaries and salary increases is mainly the responsibility of national authorities, choosing course content and textbooks is the responsibility of teachers, and assessment and disciplinary policies are established by principals and teachers jointly. All other responsibilities, including hiring and firing teachers, overseeing budgetary issues, setting policy for admissions and deciding which courses are offered at school, are held mainly by school principals.³

Figure II.4.2 Summary of responsibilities for school governance

Based on OECD average

Responsibility		Held mainly by ¹	Shared with ²	Minor role ³
	Establishing teachers' starting salaries	National authority	Local/Regional authority	Principal
Resources: teachers	Determining teachers' salary increases	National authority	Local/Regional authority	Principal
	Selecting teachers for hire	Principal		Local/regional/national authority
	Firing teachers	Principal	Local/Regional authority	School board and national authority
Decree la lact	Formulating the school budget	Principal	School board and local/regional authority	National authority
Resources: budget	Deciding on budget allocations within the school	Principal	School board	Local/Regional authority
	Deciding which courses are offered	Principal	Teachers and school board	Local/Regional authority
Curriculum	Choosing which textbooks are used	Teachers	Principal	National authority
	Determining course content	Teachers	Principal and national authority	Local/Regional authority
Establishing student a	assessment policies	Principal and teachers	National authority	School board
Establishing student	disciplinary policies	Principal and teachers	School board	
Approving students f	or admission to the school	Principal		School board and local/regional authority

- 1. More than 50% of students attend schools whose principal reported that a given actor has considerable responsibility.
- 2. Between more than 25% and 50% of students attend schools whose principal reported that a given actor has considerable responsibility.
- 3. Between 15% and 25% of students attend schools whose principal reported that a given actor has considerable responsibility. **Source:** OECD, PISA 2015 Database, Table II.4.1.



Another perspective on how responsibilities are distributed

Another way of showing how the five actors – principals, teachers, school boards, local/regional authorities and national authorities – share responsibilities for school management is to assume that the sum of their responsibilities amounts to a fixed number – for convenience, 100. For instance, if a principal reports that only teachers have considerable responsibility for selecting course content, then they are assigned a value of 100. If they reported that both teachers and principals have considerable responsibility, then each receives a value of 50. If, according to the principal, the responsibility is shared among principals, teachers and a school board, then each actor is given a value of 33, and so on.

Analysing the data in this way, on average across OECD countries, 39% of the responsibility for resources would be assumed by principals, 3% by teachers, 12% by school boards, 23% by local or regional authorities, and the remaining 23% by national authorities (Figure II.4.3).⁴ For the curriculum, 22% of the responsibility would lie with principals, 44% with teachers, 8% with school boards, and the remaining 27% shared between local, regional and national authorities (Figure II.4.4).⁵ Responsibility for student disciplinary policies would mainly lie with school principals (39%), teachers (29%) and school boards (22%), with a minor role played by education authorities (Table II.4.2). Responsibility for student assessment policies would mainly lie with school principals (32%) and teachers (36%) with a minor role played by the other actors (Figure II.4.5). The responsibility for approving students for admission to the school would lie essentially with school principals (61%) and, to some extent, with the government (14% to local or regional and 7% to national educational authorities) (Figure II.4.6).

School autonomy

According to school principals, the degree of autonomy enjoyed by schools varies considerably across education systems (Figure II.4.7).⁶ At one end of the spectrum, in the education systems of the Czech Republic, Lithuania, Macao (China), the Netherlands and the United Kingdom, schools enjoy considerable autonomy. At the other end of the spectrum, the autonomy granted to school principals or teachers is limited in Greece, Jordan, Tunisia and Turkey, at least in comparison with other education systems.

On average across OECD countries and in 32 education systems, socio-economically advantaged schools enjoy greater autonomy than disadvantaged schools; and likewise, on average across OECD countries and in 15 education systems, urban schools are granted more autonomy than rural schools. However, in four countries and economies, and particularly in Belgium and France, rural schools enjoy greater autonomy than urban schools (Figure II.4.7). Not surprisingly, in almost all education systems, private schools exercise greater autonomy than public schools. The largest differences between these two types of schools are observed in Turkey, the United Arab Emirates and Uruguay (Table II.4.5).

On average across OECD countries and in 29 education systems, students in schools whose principal reported that more responsibilities lie with either teachers or themselves score higher in science (Figure II.4.7). However, after accounting for the socio-economic profile of students and schools, there is no association, on average across OECD countries, and there is a positive association with science performance in only 12 education systems; but in 9 countries and economies, the association is negative. These results are consistent with a comprehensive review by Jensen, Weidmann and Farmer (2013) who reported that a wide range of studies show that increasing autonomy may improve academic achievement only to some extent, and only in some countries. After all, several studies find that to reap the full benefits of school autonomy, education systems need to have effective accountability systems to discourage opportunistic behaviour by school staff, and highly qualified teachers and strong school leaders to design and implement rigorous internal evaluations and curricula (Hanushek, Link and Woessmann, 2013; OECD, 2011).

HOW ARE THE RESPONSIBILITIES FOR SCHOOL GOVERNANCE RELATED TO SCIENCE PERFORMANCE AND EQUITY?

School autonomy is the focus of much of the debate concerning school governance; but it is nonetheless worthwhile to examine, at the system level, how the five areas of responsibility – resources, curriculum, assessment, school admissions and disciplinary policies – overseen by principals, teachers, school governing boards, local/regional education authorities and national education authorities, are related to students' science performance and equity in the system.

The results presented in Figure II.4.8 show that students in school systems where principals and, to some extent, teachers have greater autonomy in managing their schools score higher in science. This is particularly true when principals or teachers have greater responsibility for the curriculum, but less so when they have a greater say in admitting students to the school. Students score lower in science in those systems where school governing boards have greater responsibility for school admissions policies, and also when national education authorities hold greater responsibility for four areas, especially for the curriculum. No link is observed between the responsibility held by local/regional education authorities and performance in science.

Figure II.4.3 ■ Distribution across the education system of responsibility for school resources

Assuming the responsibilities of the five actors combined amount to 100% ■ Principal ■ Teachers ■ School board ■ Local/Regional authority ■ National authority Czech Republic Czech Republic Bulgaria Bulgaria Sweden Sweden Slovak Republic Slovak Republic Netherlands Netherlands Latvia Latvia Estonia Estonia Lithuania Lithuania Iceland Iceland Thailand Thailand United Kingdom United Kingdom Macao (China) Macao (China) Denmark Denmark Norway Norway Russia Russia Hong Kong (China) Hong Kong (China) Georgia Georgia Australia Australia New Zealand New Zealand **Poland** Poland Slovenia Slovenia Israel Israel Finland Finland Chinese Taipei Chinese Taipei United States United States OECD average **OECD** average Switzerland Switzerland Lebanon Lebanon Indonesia Indonesia Montenegro Montenegro Belgium Belgium **Q**atar Qatar Chile Chile Peru Peru Canada Canada Moldova Moldova **FYROM FYROM** Algeria Algeria **United Arab Emirates United Arab Emirates** Spain Spain . Japan Japan Malta Malta Luxembourg Luxembourg Singapore Croatia Singapore Croatia Austria Austria **Trinidad and Tobago** Trinidad and Tobago Ireland Ireland Albania Albania Korea Korea Colombia Colombia Hungary Hungary Viet Nam Viet Nam CABA (Argentina) CABA (Argentina) France France Germany Germany **Dominican Republic Dominican Republic** Mexico Mexico Costa Rica Costa Rica Portugal Portugal Tunisia B-S-J-G (China) Tunisia B-S-J-G (China) Iordan Iordan Brazil Brazil Kosovo Kosovo Romania Romania Italy Italy Uruguay Uruguay Greece Greece Turkey Turkey

Countries and economies are ranked in descending order of the responsibility held by school principals and teachers. **Source:** OECD, PISA 2015 Database, Table II.2.4.

30

40

50

60

20

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10

70

80

90

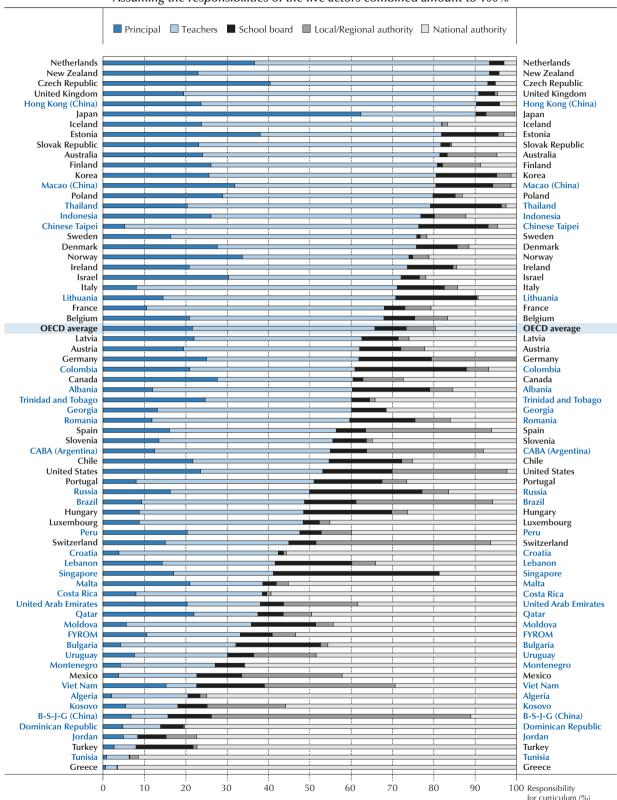
100 Responsibility

for school resources (%)



Figure II.4.4 ■ Distribution across the education system of responsibility for the curriculum

Assuming the responsibilities of the five actors combined amount to 100%

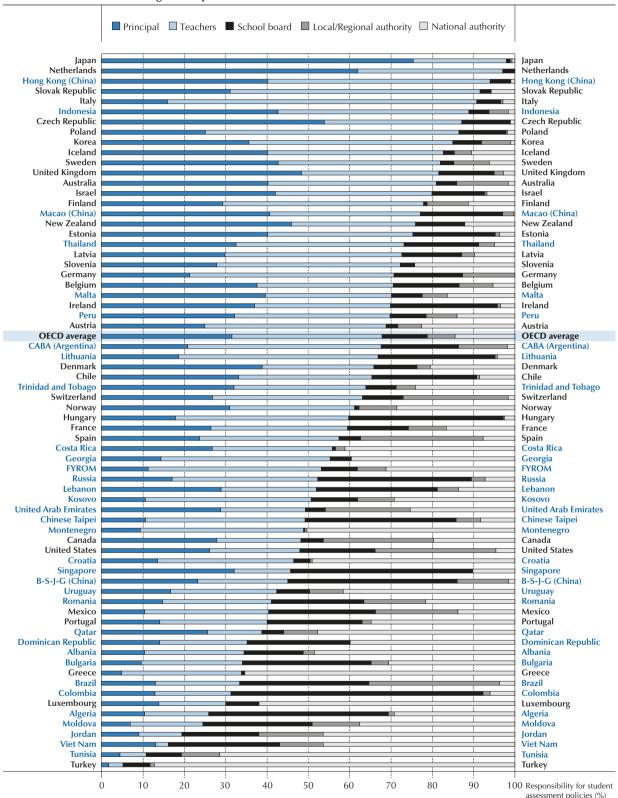


Countries and economies are ranked in descending order of the responsibility held by school principals and teachers.

Source: OECD, PISA 2015 Database, Table II.2.4.

Figure II.4.5 • Distribution across the education system of responsibility for establishing student assessment policies

Assuming the responsibilities of the five actors combined amount to 100%



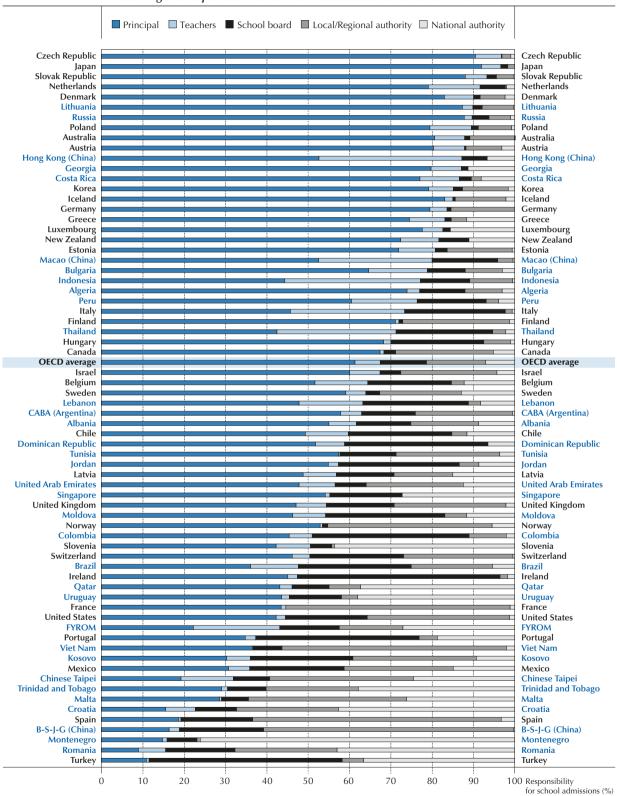
Countries and economies are ranked in descending order of the responsibility held by school principals and teachers.

Source: OECD, PISA 2015 Database, Table II.4.2.



Figure II.4.6 • Distribution across the education system of responsibility for approving students for admission to the school

Assuming the responsibilities of the five actors combined amount to 100%

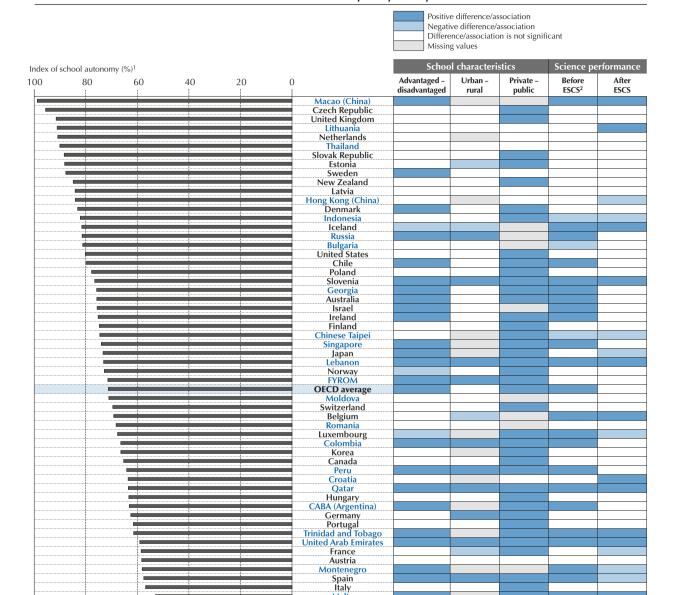


Countries and economies are ranked in descending order of the responsibility held by school principals and teachers. **Source:** OECD, PISA 2015 Database, Table II.4.2.



Figure II.4.7 ■ Index of school autonomy, school characteristics and science performance

Results based on school principals' reports



Education systems with a positive difference/association	32	15	50	29	12
Education systems with a no difference/association	33	36	8	35	47
Education systems with a negative difference/association	3	4	0	4	9

Malfa
Costa Rica
B-S-J-G (China)
Brazil
Dominican Republic
Viet Nam
Mexico
Kosovo
Algeria
Uruguay
Jordan
Tunisia
Turkey
Greece

Note: See Annex A7 for instructions on how to interpret this figure.

Countries and economies are ranked in descending order of the index of school autonomy.

Source: OECD, PISA 2015 Database, Table II.4.5.

^{1.} The index of school autonomy is calculated as the percentage of tasks for which the principal, the teachers or the school governing board have considerable responsibility.

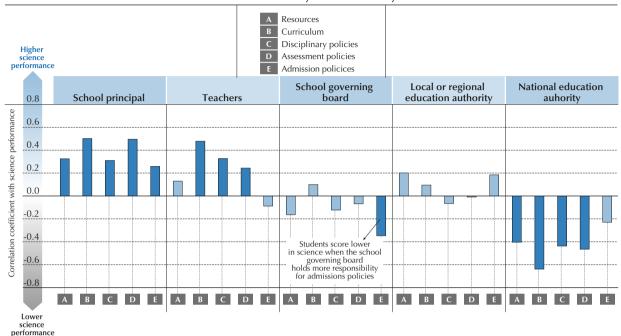
2. The spain proposite profile is measured by the PISA index of expression and cultural status (ESCS).

^{2.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS).



Figure II.4.8 • Correlations between the responsibilities for school governance and science performance

Results based on system-level analyses



Notes: The responsibilities for school governance are measured by the share distribution of responsibilities for school governance in Table II.4.2. Results based on 70 education systems.

Statistically significant correlation coefficients are shown in a darker tone (see Annex A3).

Source: OECD, PISA 2015 Database.

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Figure II.4.9 • Correlations between the responsibilities for school governance and equity in science performance

Results based on system-level analyses Resources В Curriculum Disciplinary policies Assessment policies Admission policices National education School governing Local or regional School principal **Teachers** board education authority auhority 0.4 Correlation coefficient with equity 0.0 0.0 vsience b Equity in science performance is greater when national authorities hold more responsibility -0.4for disciplinary policies -0.6 A B C D E A B C D E A B C D E C D A B C D

Notes: The responsibilities for school governance are measured by the share distribution of responsibilities for school governance in Table II.4.2. Results based on 70 education systems.

Statistically significant correlation coefficients are shown in a darker tone (see Annex A3).

The equity in science performance is 100 - the percentage of the variation in science performance explained by students' socio-economic status. Source: OECD, PISA 2015 Database.



However, more school autonomy may not always be effective (Hanushek, Link and Woessmann, 2013). For instance, Figure II.4.9 shows that more autonomy for schools and teachers is not positively associated with equity in science performance. In fact, results in science are more equitable – meaning there is a weaker association between students' socio-economic status and their performance in science – when education authorities have greater responsibility for disciplinary policies.

Also, the benefits of school autonomy may be contingent on how prepared schools are to use their responsibility effectively and how accountable they are for their students' outcomes to parents, local communities and education authorities (Hanushek, Link and Woessmann, 2013; OECD, 2013a). Figures II.4.10 to II.4.13 examine how the association between the responsibilities held by school principals, teachers and education authorities, and students' science performance varies depending on how ready school principals are to seize the opportunities available due to greater autonomy (measured by the index of educational leadership) and the degree to which schools are held accountable (measured by the use of mandatory standardised tests and the extent to which achievement data is posted publicly or tracked by education authorities over time).

Educational leadership

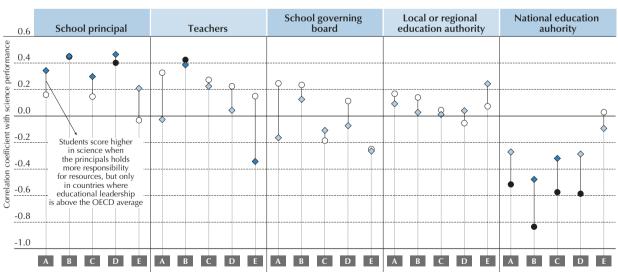
Students score higher in science when school principals hold more responsibility for school governance, and somewhat more in those education systems where principals report stronger educational leadership (Figures II.410). For example, students score higher in science when the principal holds more responsibility for school resources (e.g. budget, hiring and firing staff), but only when comparing countries where the index of educational leadership is above the OECD average. Schools are expected to benefit more from greater autonomy when their principals are prepared to assume leadership.

Figure II.4.10 • Correlations between the responsibilities for school governance and science performance, by educational leadership

Results based on system-level analyses

A Resources
B Curriculum
C Disciplinary policies
D Assessment policies
E Admission policices

B Curriculum
C Disciplinary policies
D Assessment policies
C D Selow the OECD average
C D Below the OECD average



Notes: The responsibilities for school governance are measured by the share distribution of responsibilities for school governance in Table II.4.2.

Results based on 26 education systems where the index of educational leadership is below the OECD average, and 44 education systems where it is above the OECD average.

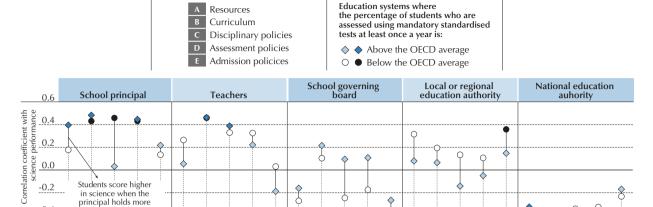
Statistically significant correlation coefficients are shown in a darker tone (see Annex A3).

Source: OECD, PISA 2015 Database.



Figure II.4.11 • Correlations between the responsibilities for school governance and science performance, by use of mandatory standardised tests

Results based on system-level analyses



Note: The responsibilities for school governance are measured by the share distribution of responsibilities for school governance in Table II.4.2. Results based on 30 education systems where the percentage of students who are assessed using mandatory standardised tests at least once a year is below the OECD average and 35 education systems where it is above the OECD average.

B C D

A B C D E A B C D E A B C D E A

Statistically significant correlation coefficients are shown in a darker tone (see Annex A3).

Source: OECD, PISA 2015 Database.

responsibility for resources, but only in countries where the use of mandatory

standardised tests is above OECD average

-0.4

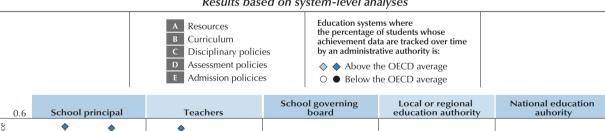
-0.6

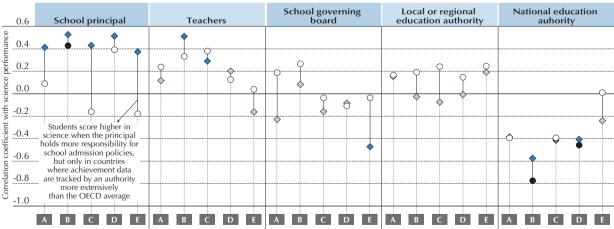
-0.8

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Figure II.4.12 • Correlations between the responsibilities for school governance and science performance, by tracking achievement data over time

Results based on system-level analyses





Notes: The responsibilities for school governance are measured by the share distribution of responsibilities for school governance in Table II.4.2.

Results based on 22 education systems where the percentage of students whose achievement data are tracked over time by an administrative authority is below the OECD average and 48 education systems where it is above the OECD average.

Statistically significant correlation coefficients are shown in a darker tone (see Annex A3).

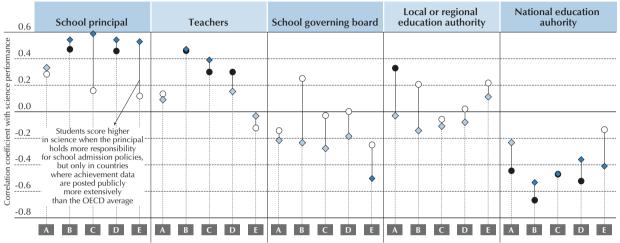
Source: OECD, PISA 2015 Database.



Figure II.4.13 ■ Correlations between the responsibilities for school governance and science performance, by posting achievement data publicly

Results based on system-level analyses





Notes: The responsibilities for school governance are measured by the share distribution of responsibilities for school governance in Table II.4.2.

Results based on 42 education systems where the percentage of students whose achievement data are posted publicly is below the OECD average and 28 education systems where it is above the OECD average.

Statistically significant correlation coefficients are shown in a darker tone (see Annex A3).

Source: OECD, PISA 2015 Database.

StatLink http://dx.doi.org/10.1787/888933435918

School accountability: Mandatory standardised tests and using achievement data beyond the school

The positive association between the autonomy exercised by principals and students' performance in science is stronger across countries where achievement data are more frequently tracked over time by an administrative authority or posted publicly than in countries where this happens less frequently. The differences are particularly striking when considering the responsibility for resources, disciplinary policies and school admissions policies. For instance, across the 22 education systems where achievement data is tracked by an administrative authority less frequently than on average across OECD countries, there is no association between principals' responsibility for resources, disciplinary policies or school admissions policies, and science performance. But among the 48 systems where achievement data is tracked more frequently than the OECD average, the correlation is moderately strong. The positive association between the autonomy enjoyed by principals and students' science performance is also stronger in countries where more students are assessed with mandatory standardised tests, but only when such autonomy pertains to the responsibility for resources (Figures II.4.11 to II.4.13). Granting greater autonomy to schools is expected to entail fewer risks if school outcomes are continuously monitored.

PUBLIC AND PRIVATE INVOLVEMENT

Schooling mainly takes place in public institutions; but some countries, such as Belgium and the Netherlands, have a long-standing tradition of private schooling. Others, like Chile, Sweden, the United Kingdom and the United States, have implemented reforms to allow a greater variety of programmes and providers to enter the education system. Advocates of private schooling argue that private schools are more responsive to parents, more cost-effective, and increase competition, accountability and pedagogical diversity throughout the school system (Chapman and Salokangas, 2012; Jimenez and Paqueo, 1996). Critics point to the detrimental effects of school choice, including social segregation of students and the threat to social cohesion (Elacqua, 2012; Levin, Cornelisz and Hanisch-Cerda, 2013; Renzulli and Evans, 2005; Saporito, 2003).



Evidence of the benefits of private schooling is mixed. Some studies show that the combination of private management and public funding produces the best results for student outcomes (Angrist, Pathak and Walters, 2013; West and Woessmann, 2010); others point to the benefits of private schooling more generally (Filer and Munich, 2003; Lara, Mizala and Repetto, 2009; Sandstrom and Bergstrom, 2005); still others provide a more nuanced picture (Geller, Sjoquist and Walker, 2006; Mancebón and Muñiz, 2008; Smith and Meier, 1995). The impact on student outcomes of offering private schooling ultimately depends on how the greater autonomy is used, the levels of competition and the degree to which learning outcomes drive this competition, and the means in place to monitor and ensure coherence in school standards and to intervene when schools fail (Couch, Shughart and Williams, 1993; Ferraiolo et al., 2004; Waslander, Pater and van der Weide, 2010). Of course, it is difficult to compare school types across countries, as in some countries, public and private schools enjoy a similar degree of autonomy.

In countries where many private schools are managed by religious organisations, the debate concerning private schooling is frequently linked to the debate concerning religious schools. Again, there are benefits and drawbacks associated with religious education. Some studies in the United States have reported achievement and behavioural benefits for minority students in particular (Jeynes, 2002), and improvements in graduation rates and college attendance (Altonji, Elder and Taber, 2002), for students attending religious schools; others observe no academic gains (Hallinan and Kubitschek, 2012) or show how their admissions and transfer policies may result in school segregation (Allen and West, 2009; Férnandez-Llera and Muñiz-Pérez, 2012).

Private schools, as defined in PISA, refer to schools managed directly or indirectly by a non-government organisation, such as a church, trade union, business or other private institution. Depending on whether or not they receive funding from the government, private schools can be considered as government-independent (50% or more of their funding comes from private sources) or government-dependent (at least 50% of their funding comes from the government). In some education systems, government-dependent private schools are completely free for parents, whereas in others, they charge parents an additional fee. Public schools are those managed by a public education authority, government agency, or governing board appointed by a government or elected by public franchise.

On average across OECD countries, about 84% of 15-year-old students attend public schools, about 12% attend government-dependent private schools, and slightly more than 4% attend government-independent private schools (Table II.4.7). In Bulgaria, Iceland, Montenegro and the Russian Federation (hereafter "Russia"), virtually all 15-year-old students attend a public school. In Chile, Hong Kong (China), Ireland, Macao (China) and the Netherlands, more than one in two students attend a government-dependent private school; and in Japan, Lebanon, Peru, Qatar, Chinese Taipei and the United Arab Emirates, at least one in four students are enrolled in government-independent private schools.

For the first time, in 2015, PISA also asked principals of private schools what kind of organisation ("a church or other religious organisation", "another not-for-profit organisation" or "a for-profit organisation") ran their school. Across OECD countries, of the 12% of students who are enrolled in private government-dependent schools, around 38% of them attend schools run by a church or other religious organisation, 54% attend schools run by another non-profit organisation, and 8% attend schools run by a for-profit organisation (Table II.4.7). In the Dominican Republic, Ireland and Malta, all 15-year-old students in private government-dependent schools attend a religious one; in Austria, all students attending private government-dependent schools run by another non-profit organisation; and in Sweden, over half of students in private government-dependent schools attend one run by a for-profit organisation.

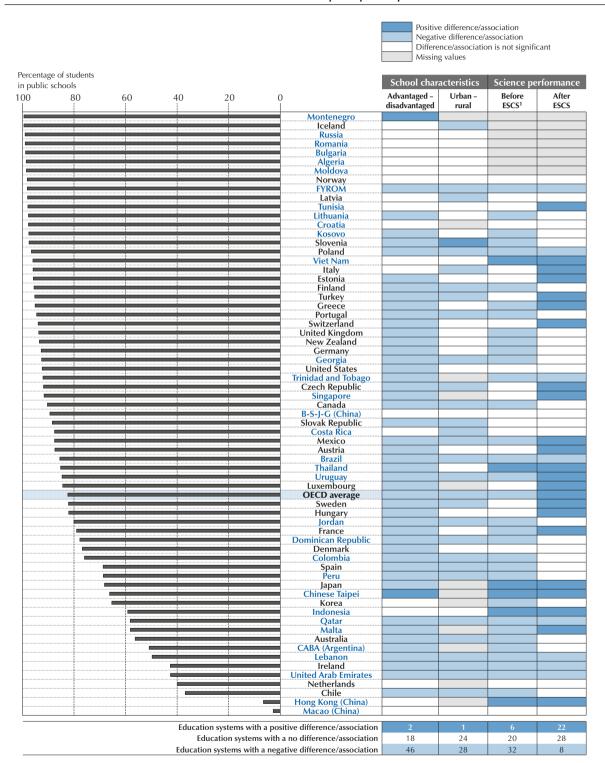
Across OECD countries, about 4% of 15-year-old students are enrolled in private independent schools, of which about a quarter attend a school run by a church or other religious organisation, a bit less than a quarter attend a school run by a for-profit organisation, and about a half attend a school run by another not-for-profit organisation. In Italy and in the United States, around 70% of these students attend a private independent school run by a religious organisation. In Austria and Denmark, all of these students attend a not-for-profit organisation, whereas in Georgia, Turkey and the United Arab Emirates, at least 7 in 10 students attend for-profit private independent schools.

Across the education systems that participated in PISA 2015, socio-economically disadvantaged schools and rural schools are more likely to be public (Figure II.4.14). In fact, only in Montenegro and Chinese Taipei are advantaged schools more likely to be public than disadvantaged schools, and only in Slovenia are urban schools more likely to be public than rural schools. Across OECD countries, 86% of 15-year-old students in lower secondary education and 81% of students in upper secondary education are enrolled in public schools (Table II.4.10). However, in Australia, Canada, Germany and Sweden, 15-year-old students in upper secondary education are more frequently enrolled in public schools than are students in lower secondary education.



Figure II.4.14 • Attendance at public school, school characteristics and science performance

Results based on school principals' reports



^{1.} ESCS refers to the PISA index of economic, social and cultural status.

Countries and economies are ranked in descending order of the percentage of students attending public schools.

Source: OECD, PISA 2015 Database, Table II.4.10.

StatLink http://dx.doi.org/10.1787/888933435921

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Student performance and enrolment in public and private schools

On average across OECD countries and in 32 education systems, students enrolled in public schools score lower in science than students in private schools (Figure II.4.14). However, after accounting for socio-economic status, in 22 education systems, students in public schools score higher than students in private schools, in 8 systems they score lower than students in private schools, and on average across OECD countries, students in public schools score higher than students in private schools. This remarkable difference in results before and after accounting for socio-economic status has been consistently observed in previous rounds of PISA (OECD, 2013a, 2010b). It reflects the larger proportions of disadvantaged students enrolled in public schools than in private schools. In Italy, Japan, Singapore, Chinese Taipei, Thailand, Tunisia, Turkey and Viet Nam, students in public schools score more than 40 points higher in science than students in private schools, after accounting for the socio-economic status of students and schools; the opposite is observed in Qatar and the United Arab Emirates (Table II.4.10).

Enrolling in a particular type of school can have implications that go beyond the benefits or drawbacks for an individual student. For instance, if enough middle-class families leave the public school system, and the concentration of disadvantaged students in particular schools grows as a result, public schools may enter a vicious circle of fewer students, less funding and deteriorating quality; and education systems could become less socially cohesive (Renzulli and Evans, 2005; Schneider, Elacqua and Buckley, 2006; Sonstelie, 1979). It is thus important to examine how enrolment in public and private schools is associated with student performance at the country level.

At the system level, science scores and equity in science performance are virtually unrelated to the percentage of students enrolled in public schools (Figure II.4.15). Average science scores at the country level are moderately and positively associated with the percentage of students enrolled in government-dependent private schools, but not when only OECD countries are compared. However, there is no association between equity in science performance and attendance at any type of school. A recent OECD report on low-performing students (OECD, 2016) observed that the positive association between the percentage of students enrolled in government-dependent private schools and student achievement is mainly explained by the greater levels of autonomy enjoyed by these schools.

Figure II.4.15 • Attendance at different types of schools, science performance and equity

Correlations at the system-level

OECD countries	Percentage of students attending						
(Based on 34 OECD countries)	Public schools	Private government-dependent schools	Private independent schools				
Science performance	-0.04	0.01	0.11				
Equity in science performance ¹	0.26	-0.29	0.11				

Countries and economies	Percentage of students attending						
(Based on 69 countries and economies)	Public schools	Private government-dependent schools	Private independent schools				
Science performance	-0.13	0.30	-0.23				
Equity in science performance	0.00	-0.01	0.04				

^{1.} The equity in science performance is 100 - the percentage of the variation in science performance explained by students' socio-economic status. **Notes:** Values that are statistically significant are indicated in bold (see Annex A3).

Information on public schools' attendance comes from Table II.4.6.

Source: OECD, PISA 2015 Database, Tables II.4.6 and II.4.7.

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SCHOOL CHOICE

Students in some school systems are assigned to their neighbourhood school. However, in recent decades, reforms in many countries have tended to give greater choice to parents and students, to enable them to choose the schools that meet the child's education needs or preferences (Heyneman, 2009). Assuming that students and parents have adequate information and choose schools based on quality considerations, the competition for schools creates incentives for institutions to organise programmes and instruction in ways that better meet diverse student requirements and interests, thus reducing the cost of failure and mismatches (Card, Dooley and Payne 2010; Woessmann et al., 2007).

In some school systems, this competition has financial implications for schools, to the extent that schools not only compete for enrolment, but also for funding. Direct public funding of independently managed institutions, based on student enrolment or student credit-hours, is one model for this. Giving money to students and their families (through, for example, scholarships or vouchers) to spend on public or private educational institutions of their choice is another method.



But some studies have questioned the validity of the underlying assumptions about parental and student choice, such as equal access to information about schools (Berends and Zottola, 2009; Hess and Loveless, 2005; Jensen et al., 2013; Waslander, Pater and van der Weide, 2010). Previous PISA findings, for instance, clearly show that even if most parents would like their child to attend the best school, disadvantaged parents need to think more about money when choosing a school than advantaged parents do (OECD, 2015a). As a result, adopting school-choice practices can lead to greater socio-economic segregation among schools, which, in turn, can result in differences in teacher quality and student achievement across schools, harming disadvantaged students the most (Behrman et al., 2016; Ladd, 2002; Valenzuela, Bellei and Rios, 2014).

In PISA 2015, students in 18 countries and economies took home a questionnaire for their parents to complete. Among other things, parents were asked if there are "no other", "one other" or "two or more" school(s) competing with their child's school in the same area. Competition varies widely across education systems (Table II.4.13). For instance, in highly urbanised economies like Hong Kong (China) and Korea, but also in Ireland, about four out of five parents reported that at least one other school competes with their child's school in the same area; in the Dominican Republic, Georgia and Italy, fewer than one in two parents so reported.

The parents of children in socio-economically advantaged and urban schools were more likely to report that at least one other school competes with their child's school than the parents of children in disadvantaged and rural schools (Table II.4.14). Except for students in Korea and Scotland (United Kingdom), these students are also more likely to score higher in the PISA science assessment, before accounting for the socio-economic profile of students and schools. After accounting for socio-economic status, in 7 of 17 education systems, students score significantly higher in science when their parents reported some competition among schools in the area.

Parents were also asked which criteria they consider important when choosing a school for their child. They were asked to report how much importance they give ("not important", "somewhat important", "important" or "very important") to 11 criteria, mainly related to school quality, financial constraints, the school's philosophy or mission, and geographic distance between their home and the school. Across the 18 education systems where parents answered this question, parents were more likely to consider important or very important that there is a safe school environment, that the school has a good reputation and that the school has an active and pleasant climate – even more so than the academic achievement of the students in the school (Table II.4.15). The least important criterion for parents is whether the school adheres to a particular religious philosophy, followed by attendance at the school of other family members and financial considerations.

A detailed analysis of this question reveals that the parents of children who attend disadvantaged, rural and public schools were considerably more likely than the parents of children who are enrolled in advantaged, urban and private schools to report that distance to the school is important (Figure II.4.16). This finding is important, as the children of parents who assigned more importance to the distance between home and school score considerably lower in the science assessment, even after accounting for the students' and schools' socio-economic profile. In Georgia, for example, students whose parents considered distance to school important or very important when choosing a school for their child score 32 points lower in science – 15 points after accounting for socio-economic status – than students whose parents consider distance to school not important or somewhat important.

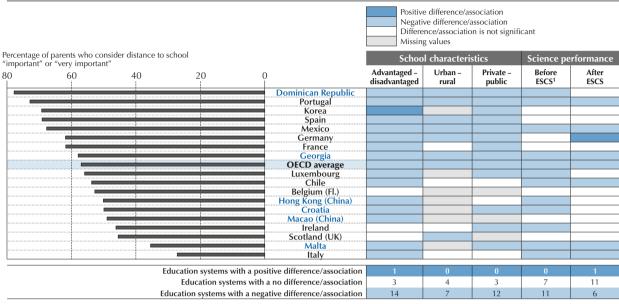
This was also observed among students whose parents considered low expenses to be important or very important, who scored 30 points lower than students whose parents considered low expenses to be only somewhat important or not important (11 points after accounting for students' and schools' socio-economic profile) across the OECD countries where parents answered this question (Figure II.4.17 and Table II.4.18). The association was particularly strong in Luxembourg, where the gap was 58 points (25 points after accounting for students' and schools' socio-economic profile). In most countries and economies, the parents of children attending disadvantaged and public schools are more likely to consider low expenses important than those of children attending advantaged and private schools.

Finally, on average across the OECD countries that distributed the parents' questionnaire students attending advantaged and private schools are more likely to have parents who ascribe greater importance to quality considerations about the school; there was no difference observed between rural and urban schools in this regard (Figure II.4.18). After accounting for students' and schools' socio-economic status, there is no relationship between whether parents considered the school's reputation to be important or very important, and their child's performance in science across OECD countries.



Figure II.4.16 • Distance to school as a reason for choosing school, school characteristics and science performance

Results based on parents' self-reports



^{1.} ESCS refers to the PISA index of economic, social and cultural status.

Note: Only countries and economies with data from the parent questionnaire are shown.

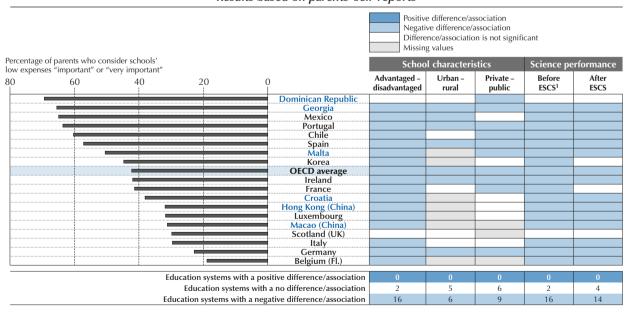
Countries and economies are ranked in descending order of the percentage of students whose parents consider distance to school as "important" or "very important".

Source: OECD, PISA 2015 Database, Table II.4.16.

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Figure II.4.17 • School low expenses as a reason for choosing school, school characteristics and science performance

Results based on parents' self-reports



^{1.} ESCS refers to the PISA index of economic, social and cultural status.

Note: Only countries and economies with data from the parent questionnaire are shown.

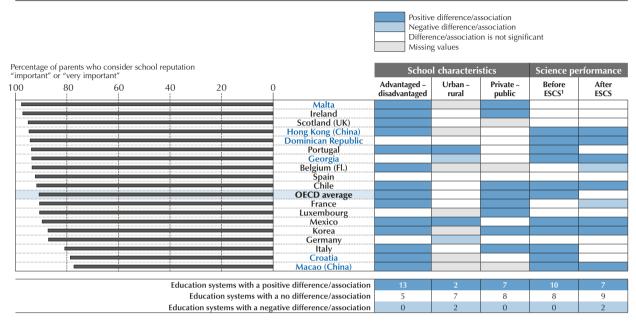
Countries and economies are ranked in descending order of the percentage of students whose parents consider low expenses as "important" or "very important".

Source: OECD, PISA 2015 Database, Table II.4.18.



Figure II.4.18 • School reputation as a reason for choosing school, school characteristics and science performance

Results based on parents' self-reports



1. ESCS refers to the PISA index of economic, social and cultural status.

Note: Only countries and economies with data from the parent questionnaire are shown.

Countries and economies are ranked in descending order of the percentage of students whose parents consider school reputation as "important" or "very important".

Source: OECD, PISA 2015 Database, Table II.4.17.

StatLink http://dx.doi.org/10.1787/888933435964

ASSESSMENTS AND EVALUATIONS

Tests can serve as powerful incentives for students to put greater effort into learning, particularly if the tests have direct consequences for students (Bishop 2006; Fuchs and Woessmann, 2007). For teachers, standardised assessments provide a way to compare instructional objectives against the results achieved, and to compare the performance of their students to the performance of students elsewhere in the school system, so that teachers can tailor pedagogy accordingly. At the school level, achievement data can be used to determine how resources and additional support are allocated; they may also trigger intervention by higher authorities. Achievement data can also be used to inform the design of education policies, to create more efficient learning environments and to prompt schools, teachers and students themselves to work towards centrally established education outcomes.

But student assessments and examinations have their critics. For example, some argue that standardised tests and examinations may reinforce the advantages of schools that serve students from privileged backgrounds (Ladd and Walsh, 2002; Downey, Von Hippel and Hughes, 2008). In addition, teachers may respond strategically to accountability measures by sorting out or retaining disadvantaged students (Jacob, 2005; Jacob and Levitt, 2003; Booher-Jennings, 2005). Standardised tests and examinations might also have the adverse effect of narrowing education goals to passing or showing proficiency on particular tests, and focusing instruction on those students who are close to average proficiency while giving less attention to those who are far below or above the average (Neal and Schanzenbach, 2010). In order to avoid the negative impact of "teaching to the test", evaluations in most OECD countries are becoming more diverse (Hooge, Burns and Wilkoszewski, 2012).

This section examines the policies on assessments and examinations at the system level, assessment practices at schools across PISA-participating countries and economies, and the relationship between these policies and practices and students' science performance. How assessment practices at school are related to students' social and emotional outcomes is examined in Volume III of *PISA 2015 Results*.



Profiles of assessments and examinations, by education level

Countries and economies implement different policies to evaluate their students' performance. System-wide evaluations can generally be classified as those that do not have direct consequences for students (assessments) and those that do (examinations). Assessments can be used to take stock of students' performance in order to make decisions about future instruction or to summarise performance for information purposes. Although assessments can be used to allocate resources to low-performing schools or tailor instruction to low-performing students, for example, assessment results do not have direct, tangible consequences for students. Results from examinations, by contrast, can be used to determine students' progression to higher levels of education (e.g. the transition from lower to upper secondary school), selection into different curricular programmes (e.g. into vocational or academic programmes), or admission into university programmes. Assessments and examinations provide students with benchmarks and, in the case of examinations, with incentives to work hard in school in order to pass them (OECD, 2013b).

System-level data⁸ reveal that all OECD education systems,⁹ except that in Switzerland, have a national assessment or examination system in place at either the lower or upper secondary level (Tables II.4.44 to II.4.46). This is also the case among partner countries and economies with available data, except Macao (China) and Uruguay. In Macao (China), although there are no national examinations, schools conduct their own entrance examinations at both the lower and upper secondary levels. In Uruguay, assessments are conducted only at the primary level.¹⁰

Twenty-seven school systems in OECD countries conduct national assessments at the lower secondary level and 12 do so at the upper secondary level. All 12 systems that conduct national assessments at the upper secondary level, namely Belgium (Flemish and French Communities), Chile, the Czech Republic, Hungary, Italy, Korea, Mexico, New Zealand, Norway, Sweden and the United States, also do so at the lower secondary level. Among partner countries and economies with available data, 14 countries conduct national assessments at the lower secondary level and 10 do so at the upper secondary level. Seven of these 10 countries/economies, namely Argentina, Brazil, FYROM, Kazakhstan, Malta, Qatar and the United Arab Emirates, also conduct assessments at the lower secondary level (Table II.4.44).

Among OECD education systems, national examinations are more prevalent at the upper secondary level (30 education systems) than at the lower secondary level (14). Belgium (Flemish Community), Canada, Iceland, Japan, Mexico, Sweden and Switzerland do not conduct national examinations at either the lower or upper secondary level. Similarly, approximately twice as many partner countries conduct national examinations (17 systems) at the upper secondary level as at the lower secondary level (8 systems). Argentina, Brazil, Macao (China), Peru and Uruguay do not conduct national examinations at either the lower or upper secondary level (Tables II.4.45 and II.4.46).

While a number of PISA-participating countries and economies rely exclusively on the use of national assessments (9 systems) or examinations (12 systems) at the lower and/or upper secondary level, the remaining systems often combine the use of assessments and examinations at these levels. The most typical combinations observed among systems that use both assessments and examinations are displayed by education level in Figure II.4.19. The combination adopted by the greatest number of education systems comprises national assessments at the lower secondary level with examinations at the upper secondary level (32 systems). The next most common scenario is to have both assessments and examinations at the upper secondary level (16 systems). Fourteen education systems use both assessments and examinations at the lower secondary level, and a much smaller number of countries (7) use national assessments at the upper secondary level and examinations at the lower secondary level. Countries may adopt more than one of these arrangements as they are not mutually exclusive. For example, a country may conduct national assessments at both the lower and upper secondary levels in combination with national examinations at either the lower or the upper secondary level or both.

In most OECD countries and all partner countries and economies, the central government is responsible for standardising both upper and lower secondary examinations (Tables II.4.45 and II.4.46). State education authorities are responsible for standardising lower secondary examinations in Belgium (French community), Germany and the United States; they are responsible for standardising upper secondary examinations in Australia, Belgium (French community), Germany, Spain and the United States.

While in most OECD countries the development of examinations is also centralised at the national level, in some countries this responsibility lies with state or regional authorities. This is the case in Belgium (French community), Germany and the United States at the lower and upper secondary levels, and in Spain at the upper secondary level. In Poland, this responsibility is shared between central and regional authorities at both education levels. In England, the central



government works with private companies to develop upper secondary examinations. Among partner countries, with the exception of FYROM, where examinations are developed by a state agency responsible for assessment or certification, all countries and economies centralise the development of examinations at the national level. In Kazakhstan, national examinations are developed through a collaboration between central authorities and agencies responsible for assessment, local authorities, and private companies.

In OECD education systems, the responsibility for marking/grading national examinations is often distributed and/or shared among various levels of education authorities. In almost half of these systems, this task involves the participation of schools, whether the student's own or another school. Among partner countries and economies, the marking/grading of national examinations occurs predominantly at the central level, except for FYROM, where this task is carried out at the state level, and Montenegro, where this happens at the school level for lower secondary examinations.

Figure II.4.19 Profiles of assessments and examinations across countries and economies

	В	oth assessments and exam						
		National e	xaminations	No assessment	Assessments only (at either lower or	Examinations only (at either lower or		
		Lower secondary	Upper secondary	or examination	upper secondary level)	upper secondary level)		
	Lower	Belgium (Fr.)	Australia	Macao (China)	Argentina	Dominican Republic		
9	secondary	Bulgaria	Austria	Switzerland	Belgium (Fl.)	England (UK)		
_		Denmark	Belgium (Fr.)	Uruguay	Brazil	Estonia		
_		France	Bulgaria	<u> </u>	Canada	Greece		
		Germany	Chile		Iceland	Ireland		
		Italy	Colombia		Japan	Netherlands		
		Kazakhstan	Costa Rica		Mexico	Poland		
		Latvia	Czech Republic		Peru	Portugal		
		Montenegro	Denmark		Sweden	Scotland (UK)		
		Norway	Finland			Singapore		
		Qatar	FYROM			Chinese Taipei		
		Thailand	France			Turkey		
		United Arab Emirates	Germany					
		United States	Hong Kong (China)					
			Hungary	1				
			Israel					
			Italy					
			Kazakhstan					
			Korea					
			Latvia					
ts			Luxembourg					
e l			Malta					
National assessments			Montenegro					
ses			New Zealand					
as			Norway					
la l			Qatar					
<u>ō</u>			Slovak Republic					
lat 			Slovenia					
_			Spain					
			Thailand					
			United Arab Emirates					
			United States					
	Upper	Belgium (Fr.)	Belgium (Fr.)					
	secondary	Italy	Chile					
		Kazakhstan	Croatia					
		Norway	Czech Republic					
			FYROM					
		Qatar						
		Qatar United Arab Emirates	Georgia					
ı			Georgia Hungary	1				
ı		United Arab Emirates	Hungary					
		United Arab Emirates						
ı		United Arab Emirates	Hungary Italy					
l		United Arab Emirates	Hungary Italy Kazakhstan					
ı		United Arab Emirates	Hungary Italy Kazakhstan Korea					
		United Arab Emirates	Hungary Italy Kazakhstan Korea Malta					
		United Arab Emirates	Hungary Italy Kazakhstan Korea Malta New Zealand					
		United Arab Emirates	Hungary Italy Kazakhstan Korea Malta New Zealand Norway					

Source: OECD, PISA 2015 Database, Tables II.4.44, II.4.45, and II.4.46.



In all education systems, national examinations at the lower and upper secondary levels are used for the purpose of student certification, graduation or grade completion or to determine students' entry into a higher grade/education level. In 34 education systems, national examinations at the upper secondary level are also frequently used to determine students' access to selective tertiary education institutions and/or students' selection into a specific programme/faculty/discipline at the tertiary level. Other uses include decisions regarding financial assistance/scholarships for students (16 systems) and decisions regarding student expulsion from school (3 systems). The results of national examinations at the upper secondary level are shared with students and various other audiences (school administrators, classroom teachers, parents and/or the media) in all OECD countries and in most partner countries except Bulgaria and the United Arab Emirates.

Assessment practices at school

PISA 2015 asked school principals how often ("never", "1-2 times a year", "3-5 times a year", "monthly" or "more than once a month") students in the national modal grade for 15-year-olds are assessed using the following methods: mandatory standardised tests, non-mandatory standardised tests, teacher-developed tests, and teachers' judgemental ratings.

On average across OECD countries, about one in four students attends a school whose principal reported that mandatory standardised tests are never used to assess students in the modal grade for 15-year-olds, and six in ten students attend schools where these tests are used once or twice a year (Figure II.4.20). In 11 countries, including Costa Rica, the Dominican Republic, Germany, Montenegro and Uruguay, at least one in two students attend schools where mandatory standardised tests are never used, while in Sweden and the United Kingdom, all school principals reported that such tests are used at least once a year (Figure II.4.21).

Box II.4.3. Are students in the United States taking too many standardised tests?

Despite the common belief that students in the United States are incessantly subjected to standardised testing (Hart et al., 2015), they are not the most frequently exposed to mandatory standardised tests among all students in PISA-participating countries and economies. There are at least 19 education systems where there is a similar or higher percentage of 15-year-old students who attend schools where mandatory standardised tests are used at least once a year; and the percentage of students in the United States who are assessed with these tests more than once a month is similar to the OECD average (Table II.4.19). Nor are students in the United States more frequently exposed to non-mandatory standardised tests. The United States is third, after Albania and Poland, in the percentage of students who attend schools where non-mandatory tests are used at least once a year; but the percentage of students who are assessed with these tests at least once a month is below the OECD average.

By international standards, the United States uses standardised tests extensively - almost all students in the United States are assessed with mandatory and non-mandatory tests at least once a year - but not intensely almost no 15-year-old student in the United States is assessed with standardised tests more than 3-5 times per year.

Reference

Hart, R. et al. (2015), Student Testing in America's Great City Schools: An Inventory and Preliminary Analysis, Council of the Great City Schools, Washington, D.C.

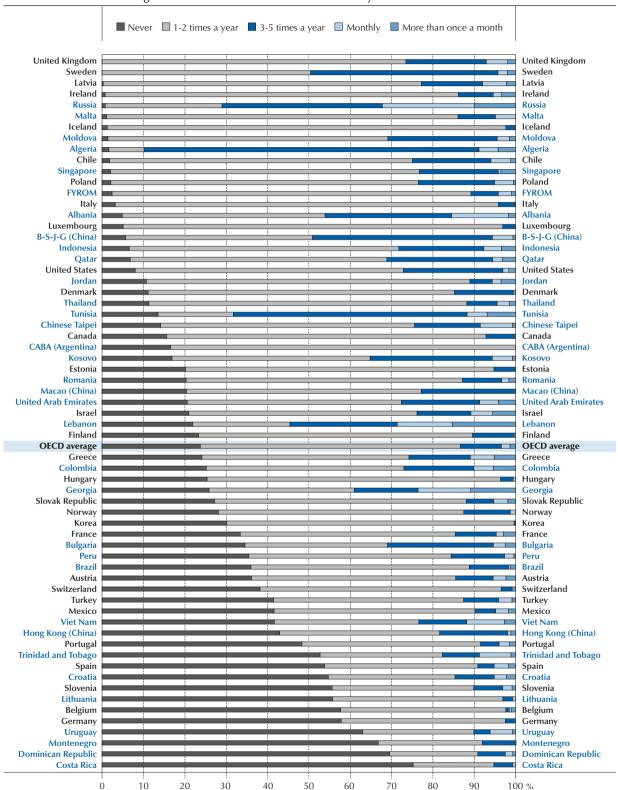
Figure II.4.20 ■ Frequency of assessments at school Percentage of students in schools where the following assessment practices are used, OECD average ■ Never □ 1-2 times a year □ 3-5 times a year □ Monthly □ More than once a month Method of assessment Mandatory standardised tests Non-mandatory standardised tests

Source: OECD, PISA 2015 Database, Table II.4.19. StatLink http://dx.doi.org/10.1787/888933435972

Teacher-developed tests Teachers' judgemental ratings 10 20 100 %

Figure II.4.21 • Frequency of mandatory standardised tests at school

Percentage of students in schools where mandatory standardised tests are used

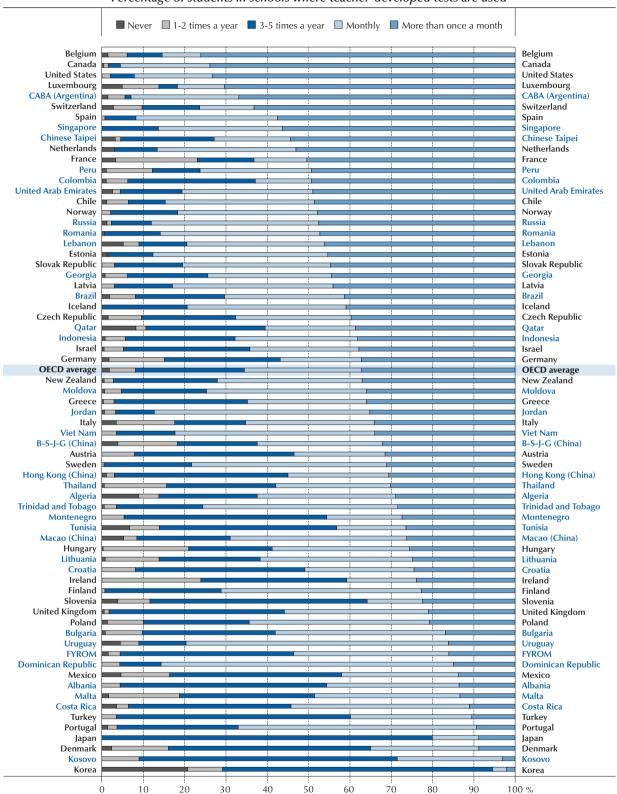


Countries and economies are ranked in ascending order of the percentage of students in schools where mandatory standardised tests are never used. Source: OECD, PISA 2015 Database, Table II.4.19.



Figure II.4.22 • Frequency of teacher-developed tests at school

Percentage of students in schools where teacher-developed tests are used



Countries and economies are ranked in descending order of the percentage of students in schools where teacher-developed tests are used more than once a month.

Source: OECD, PISA 2015 Database, Table II.4.19.



Non-mandatory standardised tests are used somewhat less frequently than mandatory tests, whereas teacher-developed tests and judgemental ratings are used considerably more frequently (Figure II.4.20). For example, on average across OECD countries, almost two in three students attend schools whose principal reported that teacher-developed tests are used at least once a month, while for more than six in ten students, teacher's judgemental ratings are used at least once a month (Table II.4.19).

Education systems where at least six out of ten students in the modal grade are assessed more than once a month using teacher-developed tests include: Ciudad Autónoma de Buenos Aires (Argentina) (hereafter "CABA [Argentina]"), Belgium, Canada, Luxembourg, Switzerland and the United States (Figure II.4.22). By contrast, in Denmark, Japan, Korea, Kosovo and Portugal, less than 10% of students are assessed using teacher-developed tests more than once a month. In Korea, 21% of students are in schools where teacher-developed tests are never used to assess students in the modal grade for 15-year-olds.

The analyses of how the use of the four types of assessment varies across types of schools show few large differences (Tables II.4.20 to II.4.23). There are 19 education systems where non-mandatory standardised tests are more frequently used in private than in public schools, according to school principals, while in only 4 countries are they more frequently used in public schools. On average across OECD countries, mandatory standardised tests are slightly more frequently used in disadvantaged and public schools than in advantaged and private schools, while the opposite is true for teacher-developed tests. Students in lower secondary schools are more frequently assessed than students in upper secondary schools. On average across OECD countries, the percentage of students assessed using mandatory standardised tests (at least once a year) is eleven percentage points higher in lower secondary schools than in upper secondary schools, and ten percentage points higher in the case of assessments using teachers' judgemental ratings (at least once a month).

Similarly, there are few education systems where science performance varies according to the method of assessment used (Tables II.4.20 to II.4.23). On average across OECD countries, and only before accounting for the students' and schools' socio-economic profile, students in schools whose principal reported that mandatory standardised tests are used at least once a year score slightly lower in the science assessment (by six score points), while students in schools whose principal reported that teacher-developed tests are used at least once a month score somewhat higher (by five score points). At the system level, only the percentage of students who are assessed using teachers' judgemental ratings (at least once a month) is positively associated with science performance, and only when OECD countries are compared (Figure II.4.23). How extensively the four types of assessments are used across PISA-participating countries is not related to the degree to which students' socio-economic status explains science performance (i.e. equity in science performance).

Figure II.4.23 ■ Type of assessments at school, science performance and equity

Correlations at the system-level

OECD countries (Based on 29 OECD countries)	Mandatory standardised tests	Non-mandatory standardised tests	Teacher- developed tests	Teachers' judgemental ratings	Science performance	Equity in science performance ¹
Mandatory standardised tests at least once a year		0.45	0.11	-0.03	0.05	0.32
Non-mandatory standardised tests at least once a year	0.45		-0.10	-0.11	-0.04	0.15
Teacher-developed tests at least once a month	0.11	-0.10		0.49	0.15	-0.06
Teachers' judgemental ratings at least once a month	-0.03	-0.11	0.49		0.41	-0.08

Countries and economies (Based on 64 countries and economies)	Mandatory standardised tests	Non-mandatory standardised tests	Teacher- developed tests	Teachers' judgemental ratings	Science performance	Equity in science performance
Mandatory standardised tests at least once a year		0.49	0.06	-0.07	0.12	0.20
Non-mandatory standardised tests at least once a year	0.49		-0.13	0.00	0.15	0.09
Teacher-developed tests at least once a month	0.06	-0.13		0.25	0.14	-0.23
Teachers' judgemental ratings at least once a month	-0.07	0.00	0.25		0.12	-0.05

^{1.} The equity in science performance is 100 – the percentage of the variation in science performance explained by students' socio-economic status. **Note:** Values that are statistically significant are indicated in bold (see Annex A3).

Source: OECD, PISA 2015 Database.

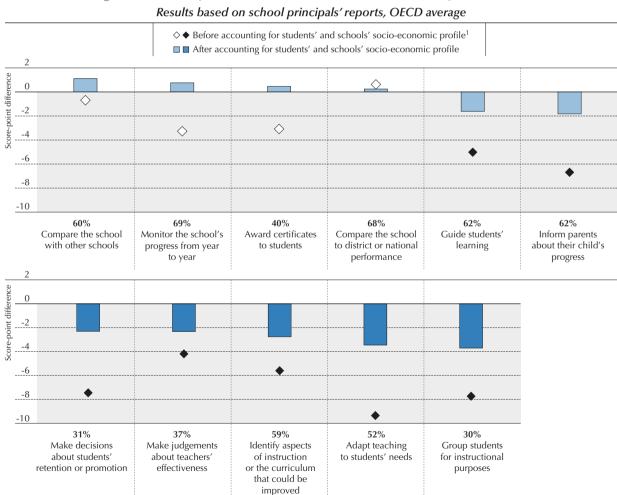


Assessment practices and purposes

Following the question on the methods used to assess 15-year-old students, PISA asked school principals for what purpose(s) standardised and teacher-developed tests are used in their schools. They could choose from 11 suggested purposes, such as guiding students' learning, making decisions about students' promotion, grouping students for instructional purposes or comparing the school with other schools.

On average across OECD countries, standardised tests are used more frequently for monitoring the school's progress from year to year, followed by comparing the school to district or national performance, guiding students' learning, and informing parents about their child's progress (Figure II.4.24). They were least likely to be used for high-stakes purposes, such as making decisions about retaining or promoting students, grouping students for instructional purposes or making judgements about teachers' effectiveness. In Algeria, Lebanon, Moldova, Singapore and Tunisia, more than 75% of students are in schools whose principal reported that standardised tests are used to make decisions about retaining/promoting students, whereas in B-S-J-G (China), the Czech Republic, Iceland and Norway, less than 10% of students are in such schools (Table II.4.24). In Indonesia, Malta, New Zealand, the United Kingdom and Viet Nam, more than 70% of students are in schools whose principal reported that standardised tests are used to group students for instructional purposes, while in CABA (Argentina), Austria, Costa Rica, the Czech Republic, Finland and Luxembourg, less than 10% of students are in such schools.

Figure II.4.24 ■ Purposes of standardised tests and science performance



^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status.

Source: OECD, PISA 2015 Database, Tables II.4.24 and II.4.25.

 $[\]textbf{Notes:} \ \textbf{Statistically significant differences are marked in a darker tone (see Annex A3)}.$

Labels indicate the percentage of students in schools whose principal reported that standardised assessments are used for that particular purpose.

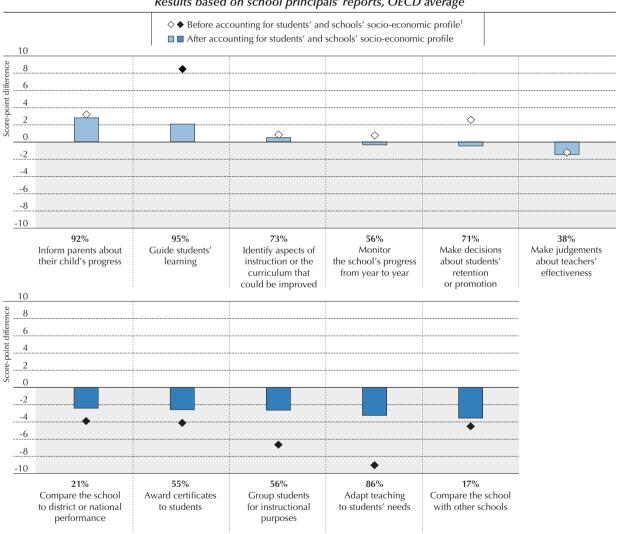
Purposes of standardised tests are ranked in descending order of the score-point difference, after accounting for students' and schools' socio-economic profile.



According to principals' reports, teacher-developed tests are also widely used for guiding students' learning and informing parents about their child's progress. On average across OECD countries, more than nine in ten students attend schools whose principal reported that teacher-developed tests are used for such purposes (Figure II.4.25). But, compared to standardised tests, teacher-developed tests are more frequently used for high-stakes purposes, such as making decisions about retaining or promoting students or grouping students for instruction, and less frequently used for comparing the school with other schools. In B-S-J-G (China), Denmark, Iceland, Norway and Sweden, teacher-developed tests are rarely used for making decisions about retaining/promoting students; in some of these countries, such as Iceland and Norway, this may just reflect the fact that students progress automatically to the next grade in primary and lower secondary education (European Commission, 2011) (Table II.4.24). In Austria, Finland, Slovenia and Sweden, fewer than one in three students attends schools where teacher-developed tests are used to group students for instruction, according to school principals. By contrast, in Israel, Jordan, Singapore, Thailand, the United Arab Emirates, the United Kingdom and Viet Nam, more than seven out of eight students attend schools where teacher-developed tests are used for this purpose.

Figure II.4.25 Purposes of teacher-developed tests and science performance

Results based on school principals' reports, OECD average



^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status.

Notes: Statistically significant differences are marked in a darker tone (see Annex A3).

Labels indicate the percentage of students in schools whose principal reported that teacher-developed tests are used for that particular purpose.

Purposes of teacher-developed tests are rapked in descending order of the score-point difference, after accounting for students' and schools' so

Purposes of teacher-developed tests are ranked in descending order of the score-point difference, after accounting for students' and schools' socio-economic profile.

Source: OECD, PISA 2015 Database, Tables II.4.24 and II.4.26. StatLink http://dx.doi.org/10.1787/888933436023



These tests are also frequently used to adapt teaching to students' needs (86% of students attend schools whose principal so reported) and to identify aspects of the instruction or curriculum that could be improved (73% of students attended schools whose principal so reported).

In summary, across OECD countries, high-stakes decisions and decisions on how to better teach students are based more frequently on teacher-developed tests; standardised tests are more frequently used to compare school achievement against local, regional, national or international standards.

On average across OECD countries, and after accounting for students' and schools' socio-economic profile, students score lower in science when their principals reported that standardised tests are used for grouping students for instructional purposes, adapting teaching to students' needs, identifying aspects of instruction or the curriculum that could be improved, making decisions about retaining or promoting students or making judgements about teachers' effectiveness (Figure II.4.24). Students score similarly in science regardless of whether or not their principals reported that standardised tests are used for comparing the school with other schools, monitoring the school's progress from year to year, awarding certificates to students, comparing the school's performance with district or national performance, guiding students' learning or informing parents about their child's progress.

Students score lower in science, on average across OECD countries, when their principals reported that teacher-developed tests are used for comparing the school with other schools, adapting teaching to students' needs, grouping students for instructional purposes, awarding certificates to students or comparing the school to district or national performance (Figure II.4.25). After accounting for the socio-economic profile of students and schools, there was no difference in student performance when teacher-developed tests were used for any of the other purposes considered. Although the differences in performance associated with the use of standardised and teacher-developed tests are significant in the cases described above, they amount to at most four score points after accounting for socio-economic status (10 score points before accounting for socio-economic status).

ACCOUNTABILITY AND QUALITY ASSURANCE

The shift in public and government concern away from mere control over resources and curriculum towards a focus on outcomes and accountability has, in many countries, led to the establishment of standards of quality for educational institutions. In most OECD countries, evaluation and assessment systems not only focus on students, but also on teachers and school leaders; and the use of performance data to improve teaching and learning has expanded in recent years (OECD, 2013b).

The approaches to accountability typically involve standards, ranging from defining broad education goals to formulating precise performance expectations in well-defined subject areas; external monitoring of results; and rewards or sanctions (Woessmann et al., 2007). The key question is whether the policy of combining school autonomy with accountability is seen as an opportunity or as a burden by school leaders and teachers (Keddie, 2015). This will largely depend on the quality and motivation of school staff, the nature of the accountability systems, and how much schools are supported in their improvement actions (Huber, 2011).

PISA 2015 collected data on the nature of accountability systems, and the ways in which the resulting information is used for school improvement and made available to various stakeholders and the general public.

The use of achievement data beyond school

Achievement data are used for accountability purposes involving some stakeholders in addition to schools, teachers, parents and students. School principals were asked to report on whether achievement data, such as the school's performance on tests or graduation rates, are posted publicly, tracked over time by an administrative authority or provided directly to parents. On average across OECD countries, achievement data are more frequently shared with parents (84% of students attend schools whose principals so reported) than tracked by an administrative authority (71% of students attend such schools) or posted publicly (44% of students attend such schools) (Table II.4.27). However there is considerable variation among countries. For example, in the Netherlands, New Zealand, the United Kingdom, the United States and Viet Nam, at least 75% of students are enrolled in schools that post data publicly, while in Austria, Belgium, Finland and Japan, fewer than 6% of students are enrolled in a school that posts data publicly.

Across PISA-participating countries and economies, posting data publicly is done somewhat more frequently in socio-economically advantaged and urban schools than in disadvantaged and rural schools (Figure II.4.25). In 15 out of 68 education systems, posting data publicly is more common in advantaged than in disadvantaged schools, and in 15



out of 54 education systems it is more common in urban than in rural schools. Posting data publicly is also more common in upper secondary than lower secondary schools, on average across OECD countries and in 15 of 57 education systems (Table II.4.30). There are no differences between advantaged and disadvantaged schools or between urban and rural schools in the degree to which school achievement data are tracked by administrative authorities (Table II.4.31). On average across OECD countries and in 17 out of 60 education systems, however, administrative authorities are more likely to track achievement data coming from public schools than from private schools.

Between 2012 and 2015 there were no changes in the percentage of students in schools where achievement data are posted publicly or tracked over time by an administrative authority across OECD countries (Table II.4.29). However, there are 15 countries and economies where achievement data were posted publicly more extensively in 2015 than in 2012, including France, Hong Kong (China), Ireland and Portugal, and 12 countries where achievement data were posted publicly less extensively, including Korea, Montenegro, the Netherlands and Sweden. In nine countries and economies, including Hong Kong (China), Iceland, Indonesia and Greece, more students in 2015 than in 2012 attended schools whose achievement data were tracked over time by an administrative authority, while in another seven countries, including Luxembourg, Macao (China) and Slovenia, the opposite trend was observed.

On average across OECD countries, providing achievement data directly to parents is equally likely regardless of the socio-economic profile, type or location of the school (Table II.4.32). However, there are considerably more education systems where rural schools are more likely than urban schools to provide achievement data to parents (10 education systems) than there are education systems where urban schools are more like than rural schools to do so (2 education systems, including that in Turkey, where they are over 65 percentage points more likely to do so). Similarly, there are more countries and economies (17) where private schools are more likely than public schools to provide achievement data to parents than education systems where it is more common for public schools to do so (5).

In a great majority of education systems, students perform similarly in science regardless of whether the achievement data from their schools is tracked by an administrative authority or shared directly with parents (Tables II.4.31 and II.4.32). However, posting data publicly is positively associated with students' performance in science, on average across OECD countries, both before and after accounting for the socio-economic profile of students and schools (Figure II.4.26). There are also 13 education systems where students perform better in science, after accounting for socio-economic status, when their schools post data publicly.

Quality-assurance and school-improvement practices

Schools also use measures other than student assessments to monitor the quality of the education they provide. PISA 2015 asked principals to report on whether their schools use various measures related to quality assurance and improvement. All measures combined, students in France, Italy, Luxembourg, Switzerland and Uruguay are least likely to be in schools where arrangements aimed at quality assurance and improvement at school are used, whereas students in Qatar, Singapore, Thailand, the United Arab Emirates and the United Kingdom are most likely to be in such schools (Figure II.4.27).

Almost all principals in PISA-participating countries and economies reported that internal evaluations or self-evaluations are used in their schools. On average across OECD countries, these evaluations are almost equally likely to originate from a school initiative or be mandated by an administrative authority (Table II.4.33). By comparison, external evaluations are more likely to be mandatory and less likely to be used by schools. On average across OECD countries, one in four students attends a school where they are not used.

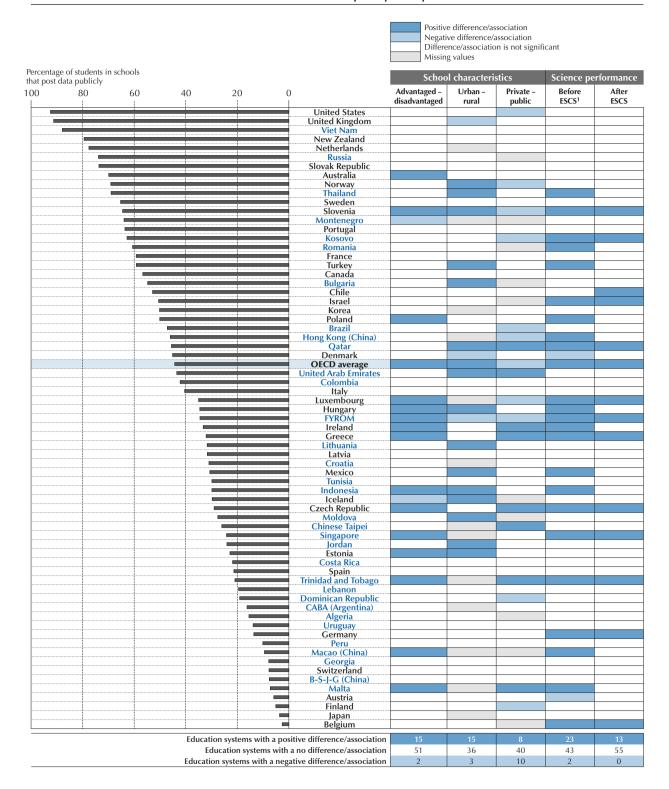
At least nine out of ten students in OECD countries attend schools that systematically record data, such as attendance records (of teachers and students) and professional development, or that systematically record graduation rates and test results, for quality-assurance or school-improvement purposes. Interestingly, using systematic recording of data for quality-assurance or improvement purposes is less frequently observed in high-income countries, such as Austria, France, Greece, Italy, Japan, Luxembourg and Switzerland (Figure II.4.27).

Some studies consider the feedback from students to teachers and principals as essential for improving the school learning environment (Hattie, 2009); yet across OECD countries, one in three students attends a school that never uses this quality-assurance arrangement in written form; and in France, Luxembourg and Italy, fewer than one in three students attends a school that solicits written student feedback for quality-assurance purposes.



Figure II.4.26 Posting achievement data publicly, school characteristics and science performance

Results based on school principals' reports



^{1.} ESCS refers to the PISA index of economic, social and cultural status.

Countries and economies are ranked in descending order of the percentage of students in schools where achievement data are posted publicly. **Source:** OECD, PISA 2015 Database, Table II.4.30.



Figure II.4.27 • Quality assurance and improvement actions at school

Results based on school principals' reports

Less than half of students From 50% to 75% of students More than 75% of students

l		than /5% of								
	Percentage	of students	in schools whe	ere the followi	ng arrangeme	nts aimed at q	uality assuranc	e and impr	ovement at sch	nool are used
	Internal evaluation/ Self-evaluation	External evaluation	Written specification of the school's curricular profile and educational goals	Written specification of student performance standards	Systematic recording of data (e.g. teacher/ student attendance)	Systematic recording of student test results and graduation rates	Seeking written feedback from students	Teacher mentoring	Regular consultation with experts over a period of at least six months	Implementation of a standardised policy for science subjects
Qatar	99	97	96	100	100	100	94	100	93	97
Thailand	100	100	100	100	99	100	88	99	90	94
United Arab Emirates	100	100	98	99	100	100	90	97	84	95
Singapore	99	99	98	95	99	100	95	100	66	97
United Kingdom	100	97	97	98	100	100	91	98	84	84
Russia	100	99	100	100	98	100	81	100	76	94
Indonesia	98	92	98	90	99	99	93	99	90	88
Albania New Zealand	100 99	97 97	99 96	95	99	100 99	92 96	96 97	72	95
Romania	100	98	96	93 97	99	100	98	97	78 66	77 85
Korea	100	86	99	100	98	95	92	95	73	84
Moldova	100	96	97	94	100	99	81	96	65	93
Jordan	98	80	96	97	99	99	89	98	80	79
Montenegro	91	99	98	91	100	96	71	100	78	84
Australia	99	81	97	92	99	99	81	98	78	82
United States	98	85	99	96	97	99	73	96	67	86
Dominican Republic	97	82	91	92	98	93	96	80	73	84
Chinese Taipei	95	93	97	93	98	99	76	90	73	71
Viet Nam	100	73	98	93	98	99	91	98	50	81
Estonia	100	91	96	68	96	95	92	98	51	86
Kosovo	91	83	88	85	93	96	79	95	73	88
B-S-J-G (China)	98	79	97	75	98	92	89	95	52	94
FYROM	99	99	84	80	91	93	83	95	73	70
Slovak Republic	97	62	97	92	100	98	75	99	63	83
Croatia	99	92	97	83	98	90	77	95	56	69
Latvia	100	96	93	83	100	100	86	80	39	77
Israel	95 100	88 94	99 97	79	99	97 98	56	97 83	60 48	83
Hong Kong (China) Macao (China)	98	78	97	81 84	100	100	83 74	91	54	67 75
Colombia	100	90	92	94	97	95	88	78	53	59
Bulgaria	97	96	85	84	98	98	71	72	72	71
Ireland	100	95	88	68	94	98	50	83	76	81
Brazil	96	87	99	87	91	85	77	93	60	55
Lebanon	94	54	96	88	98	98	65	82	72	86
Algeria	99	50	93	86	96	99	81	97	46	80
Czech Republic	97	61	100	89	96	96	73	96	28	87
Poland	100	92	62	84	98	99	87	95	48	57
Turkey	94	79	91	84	96	100	85	66	49	75
Malta	99	90	94	67	98	96	53	90	66	60
Portugal	100	97	95	83	87	98	72	84	36	51
Georgia	98	72	95	87	95	98	79	52	49	76
Mexico	86	74	93	89	95	96	77	62	58	66
Peru	92	69	96	94	96	88	65	98	43	54
Slovenia	98	47	96	96	100	97	81	82	32	65
Canada	86	64	93	83	86	96	56	88	69	72
Trinidad and Tobago OECD average	93 93	74 75	91 89	83 79	97 91	98 93	45 69	84 78	56 48	76 63
Hungary	93	75 75	100	98	100	100	65	82	19	49
Netherlands	92	86	80	65	89	97	82	89	58	37
Norway	98	64	85	90	85	96	65	92	78	19
Costa Rica	90	63	90	81	97	95	70	71	49	63
Tunisia	87	69	62	81	95	99	48	93	49	83
Sweden	98	68	85	98	93	83	77	79	32	35
CABA (Argentina)	90	61	92	74	85	76	64	86	55	61
Chile	94	77	82	74	92	95	73	57	42	57
Belgium	85	86	95	61	89	91	51	82	47	55
Japan	98	76	96	68	81	90	85	83	15	45
Denmark	84	70	86	82	89	94	57	66	38	61
Iceland	100	93	84	90	98	97	50	22	39	52
Lithuania	100	80	97	70	99	89	75	59	22	33
Austria	89	41	80	68	83	83	90	75	62	55
Germany	88	72	92	76	87	94	61	40	33	66
Spain	88	74	85	83	90	97	77	41	27	39
Greece Finland	81 95	21 57	72 80	49 73	81 89	85 84	43 74	88 66	87 10	85
Uruguay	95	47	84	67	98	96	58	70	22	62 33
Luxembourg	75	96	75	41	78	73	24	81	43	59
LUACHIDUUIX		69	75	48	78	64	66	76	27	44
	85									
Switzerland France	85 78	57	83	55	79	90	23	72	16	55

Countries and economies are ranked in descending order of the percentage of students in schools using the arrangements aimed at quality assurance and improvement (average 10 arrangements).

Source: OECD, PISA 2015 Database, Table II.4.33.

StatLink ■ http://dx.doi.org/10.1787/888933436045

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Teacher mentoring might help young teachers integrate smoothly into a new learning environment. Across OECD countries, four out of five students are in schools whose principals reported using teaching mentoring; but in Germany, Iceland, Italy and Spain, at least one in two students attend schools where teaching mentoring is not used, at least as a quality-assurance or improvement arrangement.

Students perform similarly in science regardless of whether their schools use or do not use most of the quality-assurance and improvements arrangements cited above (Table II.4.34). Out of the ten suggested arrangements, students in OECD countries whose principals reported using written specifications of the school's curricular profile and education goals; using systematic recording of student test results and graduation rates; seeking written feedback from students; or implementing a standardised policy for science subjects perform somewhat better in science than students whose principals reported not doing so. But after accounting for the socio-economic profile of students and schools, only when schools implement a standardised policy for science subjects do students score higher in science – by about three points, on average across OECD countries. Students also score lower in science, both before and after accounting for the socio-economic status of students and schools, when their schools consult experts over a period of at least six months for school-improvement purposes. Of course, schools with weaker academic performance may be more likely to consult external experts to improve student learning. The score-point differences are, in any case, small: after accounting for students' and schools' socio-economic profile, there is never more than 5 points' difference in performance between schools that do and schools that do not use each of the ten arrangements, and never more than 11 points' difference before accounting for the socio-economic profile of students and schools.

Consequences of internal and external evaluations

School principals who reported that their school uses internal evaluations for quality-assurance or improvement purposes were then asked about the consequences of these evaluations, including whether the school implemented measures in the areas of education staff, curriculum, quality of teaching, parental engagement or equity and, if they did not, whether it was because the results of the internal evaluation were successful or for other reasons.

Across OECD countries, schools that conduct internal evaluations are more likely to implement measures in the areas of student achievement, quality of teaching and learning, and teacher professional development (Figure II.4.28). In the Dominican Republic, Indonesia, Korea, Peru, Thailand and Viet Nam, several areas are affected by the measures implemented following an internal evaluation, while in Denmark, Finland, Slovenia and Switzerland, few areas are affected. However, these four countries are among the top five PISA-participating education systems where, according to principals, no changes were made because results were deemed satisfactory. For example, in Finland, almost three in four students attend a school where no measures regarding the education staff were implemented following an internal evaluation because the results were satisfactory, and more than six in ten students attend a school where no measures regarding the equity in school and curriculum implementation were implemented due to satisfactory results (Table II.4.35).

School principals who reported that external evaluations are used in their schools were also asked if a series of statements related to these evaluations apply to their school: "The results of external evaluations led to changes in school policies"; "Data were used to plan specific actions for school development"; "Data were used to plan specific actions for the improvement of teaching"; "Measures were promptly implemented"; or "The impetus triggered by the external evaluation disappeared very quickly at [our] school".

Across OECD countries, principals were most likely to agree that data are used to plan specific actions for school development and the improvement of teaching. They were least likely to report that the impetus triggered by the external evaluation disappeared very quickly at their school. In Greece, Luxembourg and Tunisia, principals were least likely to report that actions followed external evaluations (Figure II.4.29). In Luxembourg, for instance, only one in ten students (64% of students across OECD countries) attends a school whose principal reported that measures were promptly implemented following an external evaluation.

Given that schools are more likely to implement measures if they detect problems following their internal and external evaluations, it should hardly be surprising that students score lower in science if their school implements measures for improvement. Before accounting for the socio-economic status of students and schools, students score between 4 and 13 points lower in science, on average across OECD countries, depending on the area targeted for action following an internal evaluation (Tables II.4.36). After accounting for the socio-economic profile of students and schools, students score about four points lower when the measures following an internal evaluation address issues related to parents' engagement with school, student achievement and equity in school.



Figure II.4.28 ■ Actions following internal evaluations

Results based on school principals' reports

	Less than half of students
	From 50% to 75% of students
	More than 75% of students

	Percentage of students in schools where the following were affected after an internal evaluation							
	Education staff	Implementation of the curriculum	Quality of teaching and learning	Parental engagement in school	Teacher professional development	Student achievement	Students' cross-curricular competencies	Equity in school
Indonesia	95	95	97	82	95	99	77	78
Viet Nam	93	90	98	67	97	95	90	84
Thailand	87	89	92	84	85	95	92	86
Korea Dominican Republic	84 76	88 78	85 84	82 88	91 75	92 91	76 84	71 75
Peru	68	78	90	85	81	92	76	79
Singapore	84	89	94	73	92	92	74	43
Macao (China)	77	88	93	51	97	90	84	58
B-S-J-G (China)	87	78	90	64	88	86	65	69
United Arab Emirates	64	78	90	81	89	84	73	62
Chile	61	76	89	65	72	92	82	73
FYROM	60	68	88	83	87	82	66	62
Israel	85	80	81	31	86	84	77	71
Russia	65	63	81	70	77	87	86	60
Mexico	66 67	64 59	77	72	73	91 91	76	70
Montenegro	54	78	85 84	73 82	79 80	88	70 55	62 66
Georgia Qatar	67	61	73	70	81	87	77	65
Colombia	53	75	84	71	62	87	78	68
Trinidad and Tobago	61	83	90	76	76	84	53	52
Hong Kong (China)	62	84	94	44	79	90	70	41
Brazil	52	56	85	85	60	86	67	72
Moldova	56	66	86	65	76	85	70	53
Chinese Taipei	59	75	79	56	81	77	70	59
United Kingdom	57	76	86	68	86	87	53	41
Iceland	65	71	77	52	69	79	72	57
Kosovo	42	66	72	73	80	75	65	70
Lithuania	49	60	90	81	63	85	65	44
Latvia	55	55	81	69	74	84	65	46
Algeria	54	71	52	51	77	76	64	83
Estonia Jordan	63 49	71 69	74	69 71	62 70	67 79	65 58	56 67
Netherlands	73	60	64 83	55	82	85	53	33
Portugal	65	39	78	69	58	85	64	54
Costa Rica	40	62	77	63	62	76	59	65
New Zealand	42	71	77	60	84	86	37	44
United States	46	70	73	59	77	83	51	39
Lebanon	55	64	60	54	77	67	62	55
Japan	69	63	75	42	66	74	62	41
CABA (Argentina)	43	78	76	65	47	70	60	52
Slovak Republic	46	59	66	60	75	75	54	47
Romania	38	42	67	75	72	82	60	41
Sweden	77	49	73	28	65	78	44	62
Australia	39	72	83	51	78	80	39 56	30
Croatia Turkey	42 54	51 52	75 68	55 66	66 47	80 80	45	44 57
Spain	41	50	78	53	65	75	57	33
Uruguay	32	36	70	61	57	72	61	60
OECD average	48	54	68	49	64	70	51	40
Germany	38	57	77	58	62	61	61	26
Norway	46	61	82	35	66	77	38	23
Canada	25	48	60	45	70	76	44	45
Italy	27	53	60	27	71	74	51	47
Belgium	56	56	58	40	55	54	54	29
Albania	39	44	52	57	58	68	38	43
Poland	38	37	66	62	50	65	48	26
Tunisia	42	55	43	36	65	51	35	65
Ireland	34	61	72	37	58	66	41	23
France Malta	21	24 48	37 73	52 47	49 54	77 62	64 38	50 37
Bulgaria	31	36	51	35	63	62	54	37
Austria	39	57	71	26	57	57	34	26
Greece	26	36	43	50	44	51	50	49
Luxembourg	19	39	50	31	54	64	55	33
Hungary	49	36	59	35	48	54	35	28
Czech Republic	42	45	54	27	61	54	27	18
Slovenia	32	34	57	37	47	44	35	19
Denmark	49	21	49	27	61	42	20	3
Finland	19	29	40	48	40	28	38	26
Switzerland	29	31	50	19	43	27	31	21

Countries and economies are ranked in descending order of the percentage of students in schools implementing measures following an internal evaluation (average 8 areas/processes). Source: OECD, PISA 2015 Database, Table II.4.35.

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Figure II.4.29 ■ Consequences following external evaluations

Results based on school principals' reports

Less than half of students
From 50% to 75% of students
More than 75% of students

	Percentage of students in schools whose principal reported that the following statements apply to the most recent external evaluation in the school						
		Do not apply					
	The results of external evaluations led to changes in school policies	Data were used to plan specific actions for school development	ply Data were used to plan specific actions for the improvement of teaching	Measures were promptly implemented	The impetus triggered by the external evaluation "disappeared" very quickly at our school		
Singapore	92	99	96	92	87		
Indonesia	89	99	100	96	77		
Chinese Taipei	95	95	94 94	93	83		
Ireland Thailand	83 89	96 98	98	93	89 76		
United Arab Emirates	85	98	98	94	75		
Hong Kong (China)	89	99	100	84	76		
United Kingdom	77	95	93	96	84		
Montenegro	74	100	100	94	76		
Colombia	79	98	98	79	85		
Brazil	84	95	97	80	80		
FYROM	79	97	95	88	76		
Dominican Republic	83	92	92	90	78		
Peru Viot Nome	87	93	95	88	71		
Viet Nam B-S-J-G (China)	86 54	94 95	94 96	80 90	74 90		
Macao (China)	71	95	98	87	82		
Qatar	70	96	92	91	73		
Portugal	83	94	95	66	84		
Australia	73	90	86	84	87		
Slovak Republic	67	85	89	86	89		
Lithuania	56	95	92	83	90		
Mexico	68	94	94	78	81		
New Zealand	63	94	89	86	82		
Chile	70	96	97	69	77		
Russia	41	96	96	79	96		
United States Jordan	57	94 91	90 95	83 79	80 56		
Moldova	82 62	82	95	84	83		
Netherlands	74	85	91	63	86		
Trinidad and Tobago	71	89	87	69	79		
Norway	82	93	85	47	88		
Israel	68	88	89	71	78		
Spain	47	92	96	77	81		
Bulgaria	46	87	82	86	91		
Turkey	65	78	81	81	85		
Romania	53	88	84	86	77		
Iceland Sweden	56 66	85 85	85 85	72 64	90 84		
Korea	54	83	87	78	80		
Germany	47	94	86	66	82		
Canada	51	86	80	66	85		
Latvia	26	94	89	67	89		
Austria	32	88	87	70	87		
Costa Rica	62	79	77	68	76		
OECD average	54	82	80	64	83		
Albania	51	85	84	61	76		
Lebanon	57	86	80	76	58		
Malta Poland	39 43	91 94	71 79	66	85 92		
Estonia Poland	43	83	75	76	92 81		
Kosovo	48	70	84	68	69		
Algeria	33	80	86	70	69		
Slovenia	35	83	80	55	84		
Czech Republic	53	76	82	44	78		
Belgium	58	68	69	61	73		
Japan	23	79	68	63	93		
Croatia	53	57	71	62	77		
Georgia	31	75	77	63	74		
Switzerland	43	70	67	67	71		
Italy Finland	55	61	60	51 44	84 82		
Denmark	43 37	76 78	64 75	25	90		
France	65	57	51	51	77		
Hungary	32	53	58	51	91		
CABA (Argentina)	40	62	61	38	74		
Uruguay	36	56	63	31	69		
Tunisia	39	37	35	47	85		
Greece	30	54	48	40	66		
Luxembourg	31	44	42	10	63		

Countries and economies are ranked in descending order of the percentage of students in schools where the statements apply / do not apply (average 5 statements). Source: OECD, PISA 2015 Database, Table II.4.37.



Similarly, students score lower in science in schools whose principals agreed with the statements related to external evaluations, particularly those that imply that measures are taken following an external evaluation (Table II.4.38). For example, when principals agreed that data are used to plan specific actions for improving teaching, students score four points lower in science, after accounting for the socio-economic profile of students and schools.

SCHOOL LEADER AND TEACHER APPRAISAL

Improving the quality and equity of schooling depends to a large extent on the motivation and performance of school leaders and teachers. Evaluating the quality of an education system therefore entails not only assessing students' learning, but also the performance of the system's teachers and school leaders.

School leader appraisal

School leaders are largely responsible for managing the school budget, personnel and school policies. School leadership, however, has been increasingly recognised for the important role it can play in improving the learning environment in schools, in communicating a vision and a culture of continuous learning, and in supporting the work of teachers – all of which can have a positive impact on students' performance (OECD, 2015b). Principals are the most common school leaders in many schools as they hold the highest leadership position in the organisation. But other staff members, such as deputy school directors or department heads, might also assume important leadership roles in their schools for their experience or recognised ability to influence other staff and lead the organisation towards its goals (OECD, 2015b). This section describes some characteristics of school leader appraisals in various countries and economies, such as whether they are regulated by legislation or other policy frameworks, how extensively they are used, who evaluates them, and whether such appraisals are used for the purposes of professional development or for career advancement.

System-level data show that in nearly half of the countries and economies with available data, the appraisal of school leaders is included in legislation or policy frameworks at the primary (34 out of 57 education systems), lower secondary (33 out of 57 education systems) and upper secondary levels (31 out of 56 education systems) (Table II.4.58). These proportions are smaller than those related to teacher appraisal, but they are still considerable, and illustrate the importance governments give to evaluating their school managers.

In Australia, Denmark, FYROM and Latvia, even though there is no legislation on this matter, the practice of appraising school leaders is widespread. In Israel and the Netherlands, legislation applies only to some levels of education, but appraisals are also carried out at the other levels as well. In all of these countries and economies, such policies and practices are implemented countrywide, with a few exceptions: in Canada and the United States, they are implemented at the provincial/territorial or state level, respectively; in England and in FYROM, the legislation or similar practices applies to some schools only. One in every three countries and economies reported not having either legislation or similar practices related to school leader appraisals. The vast majority of countries and economies with available data reported that at least 90% of their school leaders undergo appraisals (16 out of 19 education systems). In Spain, 70% of their school leaders are appraised (across all education levels) while in Colombia 20% are (at the lower and upper secondary levels). The discussion that follows focuses on the appraisal of school leaders at the lower secondary level.

The appraisal of school leaders is mandatory in half of the countries and economies with available data (27 out of 54 education systems) (Table II.4.60). In most cases, the appraisals occur at least once a year, but appraisals every three to four years are not uncommon. In Croatia and Poland, such appraisals occur on a voluntary basis. Responsibility for evaluating school leaders lies most frequently at the central level of government (in 13 out of 30 education systems), but in most cases, central education authorities carry out such appraisals in conjunction with other education authorities/ actors. In particular, local education authorities (9 education systems) and school boards and committees (8 education systems) are frequent partners in evaluating school leaders. Since the definition of school leaders includes, but is not limited to, school principals/directors, it is not surprising that in nine systems, the principals are in charge of appraising other leaders in their schools (e.g. deputy school directors, department heads or head teachers). Education systems often rely on intermediate agencies (eight education systems) and external evaluators (seven education systems) for conducting the appraisal of school leaders, but always in conjunction with education authorities and local actors.

In 16 out of 25 education systems, the results of the appraisals are reported to inform the professional development of school leaders; in 17 out of 26 education systems, results have an impact on school leaders' career progression (Table II.4.66). Only in Colombia, Macao (China), Mexico, Singapore and the Slovak Republic are the results of evaluations systematically used to develop a professional development plan or reported to result in such plans for some school leaders. In twelve systems, the results of the appraisal can influence decisions about the promotion of school leaders, while in nine systems, they can have an impact on the speed at which school leaders progress through their careers.



In Belgium (Fr.), Croatia, Israel and New Zealand, appraisal results are used to inform professional development plans, but have no influence on the career advancement of school leaders. In Malta, although appraisals are included in legislation or in policy frameworks, the results of the appraisals do not have any influence on the professional development or career advancement of school leaders.

The consequences for school leaders who fail to obtain positive appraisal results range from having a promotion deferred (13 education systems), salary increases withheld (9 education systems) or a permanent contract denied (8 education systems) to more severe sanctions, such as being transferred to another school (10 education systems), dismissed (9 education systems) or suspended (7 education systems). Most frequently, however, having a negative appraisal leads to further appraisal (17 education systems) or to compulsory training (8 education systems).

Teacher appraisal

"Teacher appraisal is the evaluation of individual teachers to make a judgement about their competencies and performance and to provide feedback to support the improvement of their practices" (OECD, 2013b). As teachers are a key factor in student achievement, raising the quality and equity of schooling depends to a large extent on making sure that teachers are highly skilled, well resourced, and motivated to perform at their best (OECD, 2013b, 2015b). Recently, education systems have been moving away from the notion of appraisals as a form of controlling the work of teachers towards using appraisals to improve the quality of teaching, help design more effective professional development plans, and assist with decisions regarding teachers' promotions, salary increases and tenure. Educators in some countries are engaged in intense debates regarding the best way to assess teacher effectiveness and the difficulties and potential risks involved in linking teachers' performance to their students' test scores. Still, if well designed, teacher appraisals can help improve schools by providing greater opportunities for feedback to teachers, which can help them engage in their own career advancement (OECD, 2015b).

System-level data reveal that in most countries and economies with available data (47 out of 58 education systems), teacher appraisal is legislated or required by policy at the primary, lower and upper secondary levels (Table II.4.47). Legislation is implemented at the provincial/territorial level in Canada and is a state-level decision in the United States; in England (United Kingdom), legislation applies to public schools, but teacher appraisal is widely practised in private institutions as well. In all other countries where related legislation or policy frameworks exist, teacher appraisal is implemented countrywide. In Argentina, Bulgaria, Denmark, Estonia, Hong Kong (China), Norway and Chinese Taipei, there is no legislated teacher appraisal, but similar practices are common. Only Germany, Iceland, Luxembourg and Scotland (United Kingdom) reported not having legislated teacher appraisal or similar practices.

Data on the percentage of teachers appraised at the lower and upper secondary levels were available for 29 countries. In four of these education systems, less than 30% of teachers are appraised; in seven, between 31% and 75% of teachers are appraised; and in 18, more than 75% of teachers are appraised (in 13 of these countries, all teachers are appraised).

The appraisal of teachers may be related to various stages of their career and serve different purposes. Countries were asked to report on five types of appraisal (Tables II.4.48 to II.4.50), described below. The discussion concerning mandatory requirements and frequency of appraisals focuses on lower and upper secondary levels:

- Regular appraisal: This typically involves an internal school process, regulated by general labour-law provisions requiring the teachers' employers to regularly appraise the performance and results of their employees. It is the most widely used form of appraisal, practiced at the primary, secondary and upper secondary levels in 39 of 55 education systems with available data (it is mandatory in 34 systems). Appraisals are conducted annually or more frequently in half of the education systems where it is mandatory; in nine countries, they are carried out every two to four years. They are voluntary in Belgium (French community), the Czech Republic, Lithuania and Poland.
- Teachers on probation: This is specific to new teachers and involves a teacher's entry into the profession. This is the next most common form of appraisal, reported to be used in 31 out of 55 education systems. It is mandatory in 27 education systems and conducted with varying frequency: they are performed periodically in 16 of these systems and at more ad hoc frequency in the other 11 systems. This type of appraisal is voluntary in Ireland and Slovenia.
- Appraisal for promotion: This is often voluntary and takes place in relation to decisions on employment status (most countries integrate this activity with regular appraisal). It is used in 23 of 52 education systems. Compared to the aforementioned forms of appraisal, appraising teachers to inform decisions about promotion is mandatory in fewer countries (13). It is conducted at least once a year in six of these countries, once every three years or less frequently in another six, and it is mandatory, though not regularly conducted, in Austria. Appraisal for promotion is voluntary in Colombia, the Czech Republic, Hungary, Lithuania, Mexico, the Netherlands, Peru, Poland and Slovenia.

- Teacher registration: This is the process designed to determine and officially confirm a teacher as competent for teaching. It is used in 21 of 54 education systems (it is mandatory in 17 systems). In six countries, it must be carried out at least once a year; it is conducted periodically, but less often, in three countries (the corresponding data are not available for the remaining countries/economies where it is mandatory). Teacher registration is voluntary in Ireland and in the Netherlands.
- Appraisal for rewards: It involves teacher appraisal explicitly designed to identify a select number of high-performing teachers to reward and acknowledge (OECD, 2015b). This is the least-used form of appraisal (in 18 of 53 education systems). It is mandatory in only eight countries, namely FYROM, Georgia, Korea, Macao (China), Singapore, Turkey, the United Arab Emirates and Uruguay, and it occurs annually in most cases. Appraisals for reward schemes are voluntary in Chile, Hungary, Lithuania, Mexico, Montenegro, Peru, Slovenia and Sweden.

Figure II.4.30 • Obligation to undertake teacher appraisal and frequency, lower secondary (2015)

Non-model to the form
Non-mandatory/voluntary
Mandatory non periodic
Mandatory, at least once a year
Mandatory, once every 2-4 years
Mandatory, once every 5 years or less frequently
Missing or not applicable

	Missing or not applicable					
	Types of teacher appraisal					
	Completion of probation	Regular appraisal	Teacher registration	Appraisal for promotion	Reward schemes	
Austria						
Austria Belgium (Fl.)						
Belgium (Fr.)						
Chile						
Czech Republic						
England (UK)						
France						
Greece						
Hungary						
Ireland						
Israel						
Italy						
Japan						
Korea						
Mexico						
Netherlands						
New Zealand						
Poland						
Portugal						
Slovak Republic						
Slovenia						
Spain						
Sweden	-					
Turkey						
g Brazil						
Brazil Colombia Croatia						
Croatia						
Dominican Republic						
FYROM						
Georgia						
Kazakhstan						
Lithuania						
Macao (China)						
Malta						
Montenegro						
Peru						
Qatar						
Singapore						
Thailand						
United Arab Emirates						
Uruguay						

Note: Only countries and economies with available data are shown.

Source: OECD, PISA 2015 Database, Table II.4.49.



In practice, countries often adopt a combination of several forms of appraisal. Three out of five education systems reported using at least three types of appraisal. In FYROM, Macao (China), the Netherlands, Slovenia, the United Arab Emirates and the United States, all types of teacher appraisal are included in legislation or in policy frameworks (Table II.4.47).

Who is responsible for appraising teachers?

The responsibility for carrying out teacher appraisals varies across countries, depending on the type of appraisal in question. Across all types, the school principal/director is the most common evaluator, except for appraisals concerning reward schemes, where education authorities (central, regional or local) play this role slightly more often (13 countries compared to 7 countries where the principal is the primary evaluator). Regular appraisals are mostly the responsibility of principals (28 out of 39 education systems), central authorities (17 countries), and school organising bodies (15 countries), but other local players (school leaders, supervisors and peer evaluators) are often cited.

The most common evaluators for completion of probation appraisals are the principal (21 out of 31 education systems) and the teacher's supervisor (15 countries), followed by central authorities (9 countries). Evaluating teachers for promotion and for reward schemes tends to be the responsibility of the principal, central authorities and school organising bodies. Appraisals for teacher registration are most commonly carried out by central authorities (11 of 22 countries) and principals (12 countries). Across all types of appraisal, others also play a role, including school boards or committees, teacher professional organisations or other evaluators external to the school (peer evaluators from another school, accredited external evaluators or an intermediate agency). Evaluating teachers, regardless of the type of appraisal, was rarely reported to be the exclusive responsibility of a single actor. Most often, a number of players participate in the appraisal process.

Impact of teacher appraisals

Participating countries and economies also reported on whether the five types of appraisal have an impact on teachers' professional development and whether they affect teachers' career advancement and pay levels. Across the types of appraisal, at least half of the countries with available data reported that the results of teacher appraisals affect teachers' career advancement, particularly the appraisal for promotion and the completion of probation (8 in 10 education systems), followed by reward schemes, teacher registration, and regular appraisal (6 in 10 education systems) (Table II.4.55). As expected, the types of appraisal more often reported to affect pay levels are those related to reward schemes and promotions (approximately 8 in 10 education systems), but in at least half of the countries with available data, regular appraisals also have an impact on teachers' pay levels. These are also the types of appraisal more frequently cited as used to inform teachers' professional development along with appraisal for promotion.

Appraisals for teacher registration, while affecting career advancement in 6 in 10 countries, is less frequently reported to affect teachers' pay levels (1 in 4 countries) and to inform teachers' professional development (2 in 5 countries), which is otherwise a common use of results for every other type of appraisal (6 in 10 countries). Of all forms of appraisal, the results of appraisals for promotion are the most cited (at least 7 in 10 countries) as being used for professional development and as having an impact on the teachers' career advancement and pay levels.

Teachers who fail to obtain a satisfactory review in their appraisals can be faced with various negative consequences that may affect the approval or renewal of their contract, the speed at which they progress through their career, which schools they are allowed to teach in, and their salary, among others areas of their professional life. Specifically, underperformance in regular appraisals most frequently leads to further appraisals (in 23 education systems) and compulsory training (in 15 education systems), but in 14 countries, it can prevent teachers from being promoted or slow their career progression, and in 13 countries, it can lead to dismissal.

Teachers who fail their probation assessment may not be granted a permanent contract (17 education systems), be dismissed (18), be recommended for further appraisal (17) or compulsory training (9) or be denied the status of registered or certified teacher (9 education systems). Underperformance in appraisals for promotion and rewards schemes most often results in a deferral of promotion or the withdrawal of salary increments (in at least three in five countries) and in further appraisal; only rarely do such negative reviews lead to more drastic measures, such as the loss of a contract or of registered status, dismissal, suspension or school transfer. Teachers who are not successful in their appraisal for registration can be denied the status of registered/certified teacher (14 education systems) or may not have their permanent contract renewed (9 countries); in 7 countries, they are recommended for further appraisal.



Figure II.4.31 ■ **Monitoring teaching practices**

Results based on school principals' reports

Less than half of students From 50% to 75% of students More than 75% of students

	More than 75% of students					
	Percentage of students in schools that use the following methods to monitor teaching practices					
	Tests or assessments of student achievement	Teacher peer review	Principal or senior staff observations of lessons	Observation of classes by inspectors or other persons external to the school		
Jordan	97	94	99	99		
Moldova	100	95	99	94		
Qatar	100	95	98	88		
United Arab Emirates	97	90	100	93		
B-S-J-G (China)	97	92	99	91		
Dominican Republic Romania	90 97	90 87	100 99	95 90		
Korea	97	96	99	84		
Viet Nam	99	94	99	78		
United Kingdom	97	95	100	78		
Russia	100	100	100	69		
Thailand	100	99	99	61		
FYROM	86	76	100	97		
Indonesia	88	89	97	85		
Macao (China)	94	100	98	56		
Albania	100	94	99	53		
Algeria	94	65	96	91		
Costa Rica	95	93	91	65		
Kosovo	87	90	98	68		
Hong Kong (China)	98	93	99	53		
Lithuania	97	88	99	55		
Netherlands	97	80	99	64		
Singapore	100	93	100	42		
United States New Zealand	95 91	72 96	100	64		
Latvia Latvia	97	88	98	45 46		
Lebanon	86	73	93	77		
Bulgaria	97	37	100	92		
Peru	78	90	92	63		
Croatia	76	74	100	74		
Montenegro	69	91	100	61		
Uruguay	70	76	91	81		
Trinidad and Tobago	92	77	96	52		
Belgium	78	74	90	76		
Austria	86	77	94	55		
Czech Republic	93	70	100	48		
Tunisia	81	62	71	95		
Mexico	95	86	81	46		
Hungary	79 94	79	97 97	50		
Georgia GARA (Argontina)	82	95	98	18		
CABA (Argentina) Slovak Republic	81	75 88	98	46 25		
Australia	86	93	99	20		
Israel	97	62	90	42		
Poland	99	63	99	26		
Turkey	92	56	95	41		
Malta	80	45	94	65		
Sweden	73	74	95	33		
Slovenia	79	78	97	16		
OECD average	81	66	81	42		
Norway	83	80	75	31		
Chinese Taipei	82	70	82	34		
Switzerland	59	67	95	45		
Chile	76	69	92	28		
Brazil	90	81	65	28		
Estonia	76	60	96	29		
France	61 88	<u>51</u> 52	49 87	99 25		
Denmark Ireland	81	52 46	48	76		
Canada	75	55	95	25		
Japan	62	55	89	41		
Germany	80	45	88	32		
Portugal	86	77	41	31		
Colombia	89	65	59	21		
Luxembourg	63	35	77	33		
Italy	75	90	26	5		
Iceland	76	10	72	26		
Spain	71	27	32	39		
Greece	57	44	14	28		
Finland	44	14	42	5		

Countries and economies are ranked in descending order of the percentage of students in schools that use the methods to monitor teaching practices (average 4 methods). Source: OECD, PISA 2015 Database, Table II.4.39.



TEACHER EVALUATIONS AT SCHOOL

In addition to the data provided by education authorities, PISA 2015 also asked school principals to report on whether the following methods were used to monitor the practice of science teachers in their schools during the previous academic year: tests or assessments of student achievement; teacher peer review of lessons plans, assessment instruments, and lessons; principal or senior staff observations of lessons; and observation of classes by inspectors or other persons external to the school. On average across OECD countries, 81% of students attend schools whose principals reported that tests or assessments of student achievement and principal or senior staff observations of lessons were used to monitor the practice of teachers; 66% attend schools that used teacher peer reviews of lesson plans, assessment instruments or lessons; and 42% attend schools where classes were observed by inspectors or other persons external to the school (Figure II.4.31).

In general, there are wide differences in the extent to which schools use different methods of monitoring teacher practices (Figure II.4.31). In Finland, for instance, only 44% of students attend schools whose principal reported that tests or assessments of student achievement were used to monitor teacher practices during the previous year (81% of students across OECD countries). Based on principals' reports, almost all schools in Macao (China), Russia and Thailand used teacher peer reviews, but in Finland, Iceland and Spain, fewer than one in three students attends such schools. In 49 education systems, at least nine out of ten students attend schools whose principal or senior staff observed lessons, but in Greece, Italy and Spain, fewer than one in three students attends such schools. In Finland and Italy, inspectors or other persons external to the school almost never observed classes, according to school principals.

There are small differences in how extensively the four methods of monitoring teacher practices are used by type of school, school location and schools' socio-economic profile (Tables II.4.40 to II.4.43). Across OECD countries, advantaged and urban schools monitor teaching practices through student assessments more often than disadvantaged and rural schools do, while teacher peer review is more commonly used in private, urban and advantaged schools.

In most countries and economies, students score similarly in science regardless of whether or not their schools use the four types of monitoring teacher practices (Tables II.4.40 to II.4.43). Across the four monitoring methods and all education systems, there are only four cases where using a particular method is associated with an increase of more than 20 score points in science performance, after accounting for the socio-economic profile of students and schools. In Jordan and the United Kingdom, students score at least 25 points higher when their school principals reported that teacher peer reviews were used in their schools during the previous year. In Kosovo, students score 37 points higher when the principal or senior staff observed lessons; and in Bulgaria, students score 25 points higher when the principal reported that inspectors or other persons external to the school observed classes.



Notes

- 1. Other actors in education governance include parents (see chapter 3), local communities, NGOs, trade unions, researchers, the media and international organisations, among others (Burns and Köster, 2016).
- 2. Some caution is advised when interpreting the school principals' reports on the responsibilities for school governance. Decision-making arrangements vary widely across countries, so the questions posed to school principals were general; thus, responses may depend on how school principals interpreted the questions. For example, what is meant by "considerable responsibility" may not be interpreted in the same way by different school principals; the nature of school governing boards varies considerably across countries (see Box II.4.2); and, when school principals were asked who has considerable responsibility for formulating the school budget, some school principals might have related this question to the regular budget of the school, while others may have related the question to supplementary budgets, i.e. contributions from parents or the community.
- 3. If more than 50% of students attend schools whose principal reported that a given actor had considerable responsibility over an education policy, the actor is considered as mainly responsible for that policy.
- 4. The six tasks categorised as responsibilities for resources (selecting teachers for hire, firing teachers, establishing teachers' starting salaries, determining teachers' salary increases, formulating the school budget and deciding on budget allocations within the school) are given equal weight.
- 5. The three tasks categorised as responsibilities for curriculum (choosing textbooks, deciding which courses are offered and determining course content) are given equal weight.
- 6. The index of school autonomy is the percentage of tasks for which "principals", "teachers" and/or "school governing board" have considerable responsibility. The calculation is based on all 12 tasks included in the school questionnaire. A value of "0" indicates that principals, teachers or school governing boards hold no responsibilities for school governance; a value of "50" indicates they have considerable responsibility for half of the tasks; and a value of "100" indicates they have considerable responsibility for all tasks. Higher values indicate more autonomy for school principals and/or teachers.
- 7. See Boxes II.2.1, II.2.2 and II.2.3 in Chapter 2 for a description of how PISA defines socio-economically disadvantaged and advantaged schools, public and private schools, and urban and rural schools.
- 8. System-level data that are not derived from the PISA 2015 student or school questionnaire are extracted from the OECD's annual publication, *Education at a Glance*, for those countries and economies that participate in that periodic data collection. For other countries and economies, a special system-level data collection was conducted in collaboration with PISA Governing Board members and National Project Managers.
- 9. Educational authorities in the Flemish and French Communities of Belgium, and in England and Scotland (in the United Kingdom) are considered as separate educational systems. Hence, in this section, there are 37 OECD education systems at the system level, as opposed to 35 OECD countries and education systems.
- 10. Information is not available for the following partner countries: Albania, Algeria, B-S-J-G (China), Indonesia, Jordan, Kosovo, Lebanon, Lithuania, Malaysia, Moldova, Romania, Russia, Trinidad and Tobago and Viet Nam.

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Selecting and grouping students

This chapter discusses the ways in which students are selected and grouped into different grade levels, schools, programmes and classes within schools, based mainly on their performance – policies and practices known as vertical and horizontal stratification. The chapter offers an analysis of how different forms of stratification are used in combination and how they are associated with science performance in PISA 2015. It also examines how stratification policies and practices have changed since 2006.

A note regarding Israel

The statistical data for Israel are supplied by and under the responsibility of the relevant Israeli authorities. The use of such data by the OECD is without prejudice to the status of the Golan Heights, East Jerusalem and Israeli settlements in the West Bank under the terms of international law.



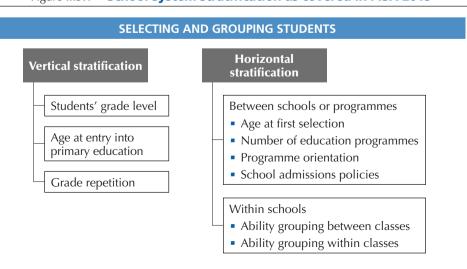
Stratification in education refers to the various ways in which schools and education systems organise instruction for students of varying ability, behaviour, interests and pace of learning (Dupriez et al., 2008). In comprehensive systems, all students follow a similar path through education, regardless of their abilities, behaviour and interests. In vertically stratified systems, students of similar age are enrolled in different grade levels, mainly as a result of grade repetition. In horizontally stratified systems, students of different abilities, behaviour or interests are separated into different schools, classes or groups (Figure II.5.1). The more stratified an education system is, the more varied the pathways through which students progress through school, and the more likely it is that disadvantaged students are placed in the least academically-oriented or demanding learning environments (Van de Werfhorst and Mijs, 2010). The effect of stratification on student outcomes is the subject of ongoing debate.

What the data tell us

- Grade repetition is more prevalent in school systems where students score lower in the PISA science assessment.
 However, in some countries and economies, such as Algeria, Belgium, Colombia, Luxembourg, Macao (China),
 Portugal and Spain, the incidence of grade repetition is considerably greater than would be expected given their mean scores in science.
- Thirty countries and economies used grade repetition less frequently in 2015 than in 2009; in only 5 countries
 did the incidence of grade repetition increase during the period. The use of grade repetition decreased by at
 least 10 percentage points in Costa Rica, France, Indonesia, Latvia, Macao (China), Malta, Mexico and Tunisia.
- Across OECD countries, socio-economically disadvantaged students, students with an immigrant background
 and boys are more likely to have repeated a grade, even after accounting for their academic performance, and
 their self-reported motivation and behaviour.
- On average across OECD countries, students in pre-vocational or vocational programmes score 22 points lower
 in science than students in general/academic and modular programmes, after accounting for the socio-economic
 profile of students and schools. However, in Brazil, Colombia, Costa Rica, the Dominican Republic, Japan,
 Luxembourg, Mexico and Switzerland, students in these programmes score higher than students in general and
 modular programmes.
- The later students are first selected into different schools or educational programmes and the less prevalent the incidence of grade repetition, the more equitable the school system or the weaker the association between students' socio-economic status and their performance in science.

This chapter examines how education systems handle diversity in students' abilities, behaviour and interests, and the policies and practices that are most conducive to high performance and equity in education. An in-depth analysis also examines the factors that are associated with grade repetition.

Figure II.5.1 ■ School system stratification as covered in PISA 2015





VERTICAL STRATIFICATION: HOW STUDENTS PROGRESS THROUGH THE SCHOOL SYSTEM

Vertical stratification is the extent to which students of a similar age are enrolled in different grade levels. In PISA, the distribution of 15-year-old students across grade levels is the main measure of vertical stratification. Greece, Iceland, Japan, Norway, Sweden and the United Kingdom have the least diversity in grade levels, as the probability that two 15-year-old students selected at random are enrolled in different grades is below 10% (Table II.5.3). By contrast, in other countries, there is substantial heterogeneity in the grades in which 15-year-olds are enrolled. For example, in Algeria, Brazil, Colombia, Costa Rica, the Dominican Republic, Indonesia, Peru and the United Arab Emirates, there is at least a 60% probability that two 15-year-old students selected at random will be enrolled in different grades.

The grade level in which students were enrolled at the time they sat the PISA test largely depends on three factors:² their age, the age at which they started primary education and, above all, whether or not they have repeated a grade. On average across OECD countries, 28% of the variation in students' grade level is explained by whether or not they have repeated a grade in primary or secondary education, 13% by students' age³ (some students are enrolled in higher/lower grades just because they were born earlier/later), and 4% by the age at which they entered primary education (Figure II.5.2). The countries and economies where the age at entry into primary education is most strongly associated with students' grade level are Croatia, Georgia, Indonesia, Moldova and the Russian Federation (hereafter "Russia"). In some countries, notably Belgium, France, Poland, Portugal, Spain, Tunisia and Uruguay, students' grade level is mainly explained by grade repetition, whereas in Chinese Taipei, students' age explains 66% of the variation in the grade level in which students were enrolled at the time they sat the PISA test (Table II.5.8). This section examines the grade in which students are enrolled, the age at which they started primary school, and grade repetition in primary and secondary education.

Students' grade level

Both within and between countries, students in the same age cohort can be enrolled in different grades. These grades may, in turn, correspond to either lower or upper secondary education, depending on how the education system in each country/economy is structured. This is important for PISA, given that participation in the assessment is based on students' age, and the grade in which the student is enrolled is associated with students' performance.

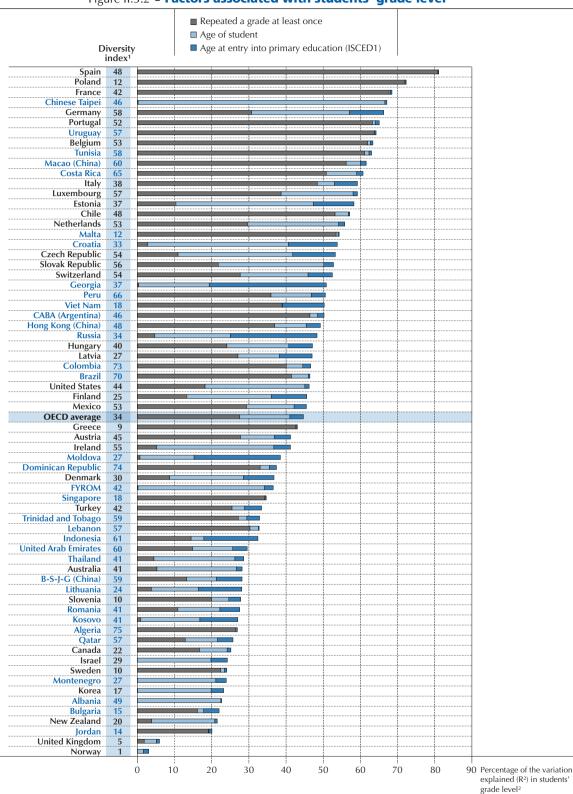
Despite the varying degrees of vertical stratification across countries, PISA's age-based sampling design yields remarkable consistency in the grade in which students were enrolled when they sat the PISA test (Figure II.5.3 and Table II.5.3). In 45 countries and economies, the modal grade of enrolment is grade 10, whereas in 22 other countries the modal grade is grade 9. The only exceptions to this are Malta, New Zealand and the United Kingdom, where the modal grade is grade 11. On average across OECD countries, in PISA 2015, 76% of students are enrolled in the modal grade in their respective country or economy, 17% are enrolled below that modal grade and 7% of students are enrolled above that modal grade. In Greece, Iceland, Japan, Norway and United Kingdom, at least 95% of students are enrolled in the modal grade (Figure II.5.3). These are countries and economies where grade repetition rates tend to be low and where most students enter primary school at the same age. Consequently, a large share of students in these countries and economies progresses through schooling at the same pace.

The incidence of enrolment in grades above or below the modal grade varies, depending on student and school characteristics.⁴ Across OECD countries, the proportion of students enrolled below the modal grade is larger in disadvantaged schools than in advantaged schools, in rural than in urban schools and, to a lesser extent, in public than in private schools. In Belgium, France, Indonesia, Tunisia and Uruguay, the proportion of 15-year-olds enrolled below the modal grade is at least 50 percentage points larger in disadvantaged schools than in advantaged schools (Tables II.5.6). The reverse pattern is observed when considering enrolment above the modal grade. In Algeria and Beijing-Shanghai-Jiangsu-Guangdong (China) (hereafter "B-S-J-G [China]"), the proportion of students in grades above the modal grade is 50 percentage points larger in advantaged schools than in disadvantaged schools (Table II.5.7).

Placement in grades above or below the modal grade is most often related to student performance. Students might be either retained or invited to skip a grade in the course of their schooling; or they might be better suited to the content and pace of the curriculum that they have been exposed to if they had started school at a different age than most of their peers. Not surprisingly then, enrolment in a grade above or below the modal grade is significantly associated with performance in science at age 15. Among students enrolled below the modal grade, this association is negative and significant in most countries and economies. After accounting for students' and schools' socio-economic profile, and on average across OECD countries, 15-year-old students below the modal grade score 48 points lower in science than students enrolled in the modal grade. In Poland, Portugal, Spain and Sweden, this difference amounts to 80 score points or more (Table II.5.6). By contrast, students enrolled above the modal grade tend to outperform students in the modal grade by an average of 32 points across OECD countries, after accounting for socio-economic status (Table II.5.7).



Figure II.5.2 ■ Factors associated with students' grade level



^{1.} Probability (in percentage) that two students selected at random are enrolled in different grade levels (100 - Herfindahl index).

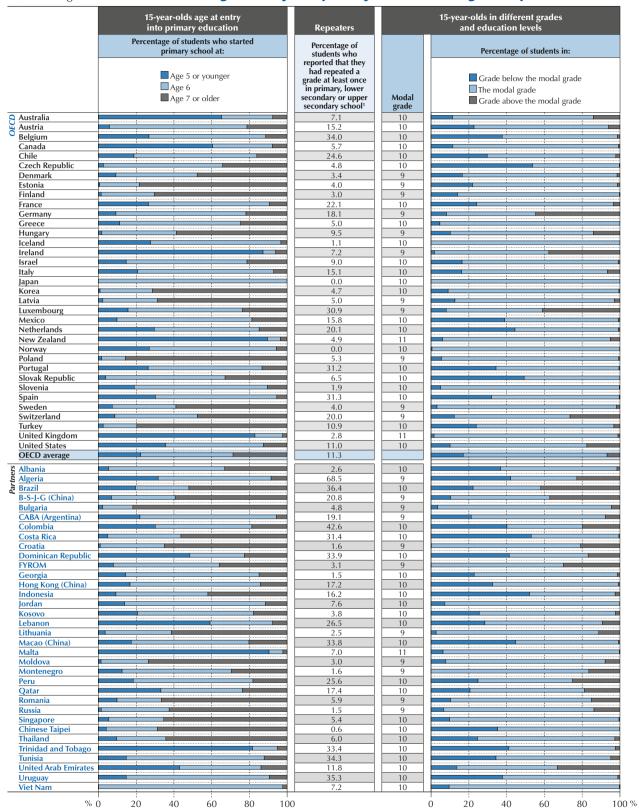
Countries and economies are ranked in descending order of the total variance in grade levels explained by the three factors.

Source: OECD, PISA 2015 Database, Tables II.5.3 and II.5.8.

^{2.} Joint effects are not shown.



Figure II.5.3 • Grade level, age of entry into primary education and grade repetition



^{1.} The questions on grade repetition were not administered in Japan and Norway. A value of zero has been set in agreement with countries since there is a policy of automatic grade progression.

Source: OECD, PISA 2015 Database, Tables II.5.1, II.5.3 and II.5.9.

StatLink http://dx.doi.org/10.1787/888933436097

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Students' age at entry into the school system

One of the determinants of the variation in students' grade levels is the variation in their age at entry into the school system. Children are expected to start compulsory school at a certain age, typically between the ages of five and seven. In practice, however, not all students do. There is no consensus on what is the best age for children to start their formal education. Some argue that staying at home or in early childhood education and care for a longer period might allow children to learn through play and to develop more fully before they enter school; others say that the early years are crucial for acquiring the foundations for later stages of education.

PISA 2015 asked students about their age at entry into primary education (ISCED 1).⁵ This question yields important information to assess the degree of age-related heterogeneity in student populations in the early stages of schooling. Students were also asked to report whether they had participated in pre-primary education (ISCED 0)⁶ and how old they were when they started doing so. Results about the variation across countries in pre-primary education participation rates are discussed in Chapter 6.

In education systems with a compulsory starting age, most students will be within one year of each other when they enter school. In countries where parents have more freedom to choose the age at which their children enter school, children may be two or more years above or below the modal age at entry. Thus, the proportion of students who started schooling outside this modal two-year window gives an approximate indication of the diversity of students' ages at entry into the school system.

Considerable differences across countries are observed in students' age at entry into primary education (ISCED 1), according to students' self-reports. On average across OECD countries, 49% of the students participating in PISA 2015 started primary school at age 6, while another 25% started at age 7, and 22% started before they were 6. In 36 PISA-participating countries/economies, a majority of students started primary school when they were 6 years old; in 18 countries/economies, at least half of the students started primary education when they were 7 years old. In Ireland, Malta, New Zealand, Trinidad and Tobago and the United Kingdom, more than eight in ten students had started primary school at age 5 or earlier, while in Bulgaria, Estonia, Poland and Turkey, more than three out of four students had started primary education when they were 7 or older (Table II.5.1).

Variations in the age at entry into primary school are associated with some characteristics of the schools attended by the 15-year-olds who participated in PISA. On average across OECD countries, 15-year-old students in socio-economically advantaged schools were slightly younger than their counterparts in disadvantaged schools when they entered primary school (Table II.5.2).

At the same time, starting primary school at a younger age is positively associated with performance in science at age 15. On average across OECD countries, and after accounting for both students' and schools 'socio-economic profile, for each year that entry into primary education is delayed, students' science scores decline by six score points. In Austria, Korea and Viet Nam the decline is of at least 15 score points. By contrast, in Jordan, Singapore, Sweden and the United Kingdom, each year of entry later into primary school is associated with an increase of at least five score points in science (Table II.5.2).

Grade repetition

The second factor with a major influence on the distribution of 15-year-olds across different grades is grade repetition over the course of compulsory schooling. Grade repetition is the practice of requiring students who have been in a grade level for a full school year to remain in the same grade for an additional school year (Jimerson, 2001; Jackson, 1975). Grade repetition is usually a non-reversible decision, in that repeaters will thereafter be a grade below other students of the same age for the rest of their progress through school. School leaders and teachers, sometimes in consultation with parents, are responsible for decisions on who will be promoted or retained, sometimes within guidelines or regulations coming from national or other levels of government (European Commission, 2011). Grade repetition can be a costly policy, as it generally requires greater expenditure on education and delays students' entry into the labour market (OECD, 2013).

In theory, repeating a grade gives students whose teachers believe are not yet ready for more advanced coursework time to "catch up" with their peers. If the curriculum is cumulative and further learning depends on a solid understanding of what had been previously learned, then promoting students regardless of their mastery of the content might put low-performing students in an increasingly difficult position at higher grades. If the practice is widespread, it might compromise performance in the school or school system as a whole.



But reviews of research encompassing different disciplines and time periods have mainly found negative effects of grade repetition on academic achievement (Jimerson, 2001). Students who have repeated a grade often also show more negative attitudes and behaviours towards school (Finn, 1989; Gottfredson, 1994; Ikeda and García, 2014) and are more likely to drop out of school (Jacob and Lefgren, 2004; Manacorda, 2012). In addition, any positive short-term effects of grade repetition appear to decline over time (Allen et al., 2009).

PISA uses a self-reported measure of grade repetition based on students' responses to questions in the student questionnaire that ask at which education level (primary or secondary) and how often (never, once, or more than once) they had repeated a grade.

The incidence of grade repetition varies considerably across countries, reflecting the wide range of policies, cultural traditions and societal beliefs about the benefits of grade repetition (European Commission, 2011; Goos et al, 2012). For example, Japan and Norway have established policies whereby students in compulsory schooling are promoted automatically to the next grade at the end of each school year, a practice known as "social promotion". In these two countries, grade repetition rates have traditionally been negligible. The incidence of grade repetition is also minimal in Iceland and Chinese Taipei (Table II.5.9). However, in 13 countries and economies, at least 30% of students had repeated a grade at least once in primary or secondary education by the age of 15. For example, in Algeria, 69% of 15-year-old students had repeated a grade at least once, and in Colombia, 43% of students had done so. In Brazil, 36% of students had repeated a grade; in Uruguay 35% of students had done so; in Belgium, the Dominican Republic, Macao (China) and Tunisia, 34% of students had repeated a grade; in Trinidad and Tobago, 33% of students had done so; and in Costa Rica, Luxembourg, Portugal and Spain, 31% of students had repeated a grade.

Box II.5.1. Interpreting school results and grade repetition

PISA assesses students who were between 15 years and 3 (complete) months and 16 years and 2 (complete) months at the beginning of the assessment period, and who were enrolled in an educational institution in grade 7 or higher. This age-based sampling has obvious advantages over grade-based sampling for international comparisons since age is strictly comparable across school systems. However, an age-based sampling means that students are tested regardless of the grade level or type of institution in which they are enrolled. In PISA, students are not sampled to be representative of their schools. Interpreting differences between schools correctly therefore requires specific knowledge about how school systems are structured.

For example, in France, as in some other countries, one of the complexities in interpreting school-level results is that a majority of 15-year-old students enrolled in lower secondary education had repeated a grade. PISA 2015 data show that, in France, approximately 24% of 15-year-old students are enrolled in lower secondary education (ISCED 2), 92% of whom had repeated a grade at least once; 76% of 15-year-old students are enrolled in upper secondary education (ISCED 3), only 1% of whom had repeated a grade at least once (Tables II.5.3 and II.5.12). When interpreting school-level results, it is important to bear in mind that differences in results between lower and upper secondary schools mainly reflect differences in student characteristics between those who had repeated a grade and those who had not, or differences in the characteristics of the schools attended by those two groups of students.

Portugal, Tunisia and Uruguay are in similar situations. In these countries, approximately 90% or more of students enrolled in lower secondary education reported that they had repeated a grade at least once, while 3% of less of students in upper secondary education reported so (Table II.5.12). In a few school systems, all or almost all 15-year-old students are enrolled in the same level of education, even if grade repetition is prevalent. For example, in Spain, while 31% of 15-year-olds reported that they had repeated a grade at least once, both those who had repeated a grade and those who had not are enrolled in lower secondary education. There are other school systems, such as those in the Czech Republic, Ireland and the Slovak Republic, where grade repetition is not the main reason why students are enrolled in different levels of education (Tables II.5.3, II.5.9 and II.5.12).

In countries where grade repetition was less prevalent in 2015 than before, there are fewer complications and challenges, compared with previous cycles of PISA, in interpreting differences in school-level results for some analyses, but the fundamental issue persists. For example, in France, the incidence of grade repetition decreased by 16 percentage points between 2009 and 2015. Consequently, the percentage of 15-year-old students enrolled in lower secondary education fell from 37% to 24% over the past six years (Tables II.5.3 and PISA 2009 Volume IV).



Grade repetition is more prevalent in school systems where students score lower in the PISA science assessment (Figure II.5.4). However, in some countries and economies, such as Algeria, Belgium, Colombia, Luxembourg, Macao (China), Portugal and Spain, the incidence of grade repetition is considerably greater than would be expected given their mean scores in science. Conversely, in other education systems, like those in the Former Yugoslav Republic of Macedonia (hereafter "FYROM"), Georgia, Kosovo, Moldova and Montenegro (and of course in countries with automatic progression, such as Japan and Norway), fewer students had repeated a grade than would be expected given these countries' mean scores in science.

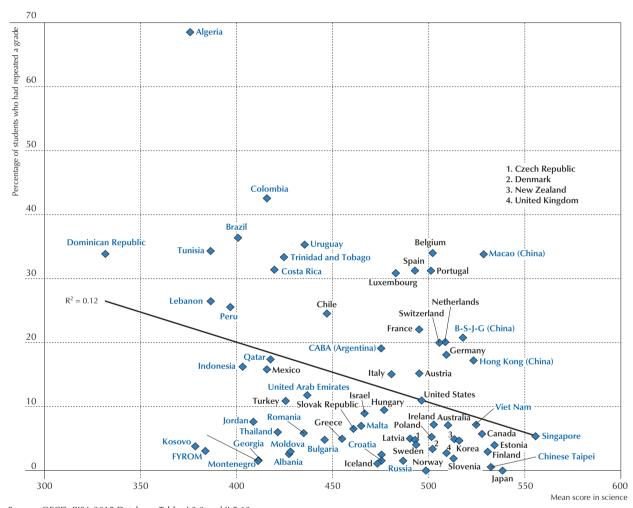


Figure II.5.4 ■ Science performance and grade repetition

Source: OECD, PISA 2015 Database, Tables I.2.3 and II.5.12. StatLink http://dx.doi.org/10.1787/888933436103

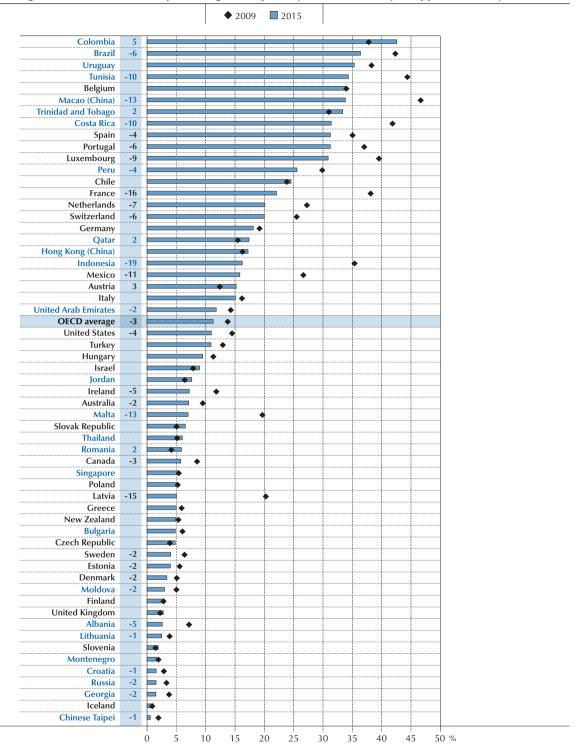
At what point, over the course of students' school careers, are grade repetition rates greater? Results from PISA show that the prevalence of grade repetition is about the same in primary and secondary education, regardless of whether the country's/economy's repetition rate is high or low.⁷ On average across OECD countries, 7% of students in PISA 2015 had repeated a grade in primary education, whereas 6% had repeated a grade in lower secondary school and 2% had repeated a grade in upper secondary school at least once. At any of the three levels, those who had repeated a grade were usually retained for one grade only; multiple repetitions (i.e. more than once) affected less than 1% of students (Table II.5.9).

The incidence of grade repetition in primary education is highest in Algeria, Brazil, Colombia, the Dominican Republic and Trinidad and Tobago, where it affects more than one in five students at that level. In Algeria, Brazil, Colombia, Costa Rica, Macao (China), Portugal, Spain, Tunisia and Uruguay, more than one in five students had repeated a grade at least once in lower secondary school.



Figure II.5.5 ■ Change between 2009 and 2015 in grade repetition rates

Percentage of students who had repeated a grade in primary, lower secondary or upper secondary school



Notes: Statistically significant differences are shown next to the country/economy name (see Annex A3).

Only countries and economies with comparable data from PISA 2009 and PISA 2015 are shown.

For Costa Rica, Georgia, Malta and Moldova, the change between the PISA 2009 and PISA 2015 represents change between 2010 and 2015 because these countries implemented the PISA 2009 assessment in 2010 as part of PISA 2009+.

Countries and economies are ranked in descending order of the percentage of students who had repeated a grade, in 2015.

 $\textbf{Source:} \ \mathsf{OECD}, \ \mathsf{PISA}\ 2015\ \mathsf{Database}, \ \mathsf{Tables}\ \mathsf{II}.5.9, \ \mathsf{II}.5.10\ \mathsf{and}\ \mathsf{II}.5.11.$



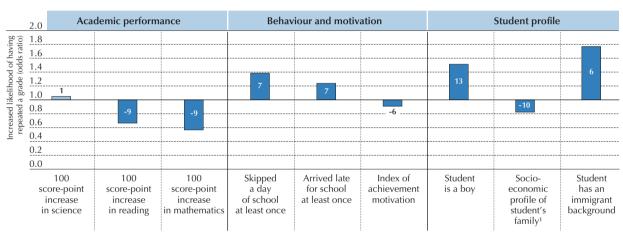
Across OECD countries, the percentage of students who reported that they had repeated a grade at least once decreased by almost 3 percentage points between 2009 and 2015 (Figure II.5.5). A reduction in the incidence of grade repetition was observed across all education levels. The percentage of students who had repeated a grade in either primary, lower secondary or upper secondary school dropped significantly and by a margin of 10 percentage points or more in Costa Rica, France, Indonesia, Latvia, Macao (China), Malta, Mexico and Tunisia. By contrast, in Ausrtia, Colombia, Qatar, Romania and Trinidad and Tobago, the percentage of students who reported that they had repeated a grade was higher in 2015 than it was in 2009.

Which students are more likely to have repeated a grade?

Grade repetition is most often and explicitly decided on the basis of academic performance; but previous studies suggest that students' behaviour and other factors can also influence the decision to retain students at a grade (Willson and Hughes, 2009; OECD, 2015a). Figure II.5.6 shows that, across OECD countries, students with poorer academic performance are more likely to have repeated a grade. For instance, an increase of 100 score points on the PISA mathematics assessment is associated with a 43% decrease in the likelihood of having repeated a grade; and an increase of 100 score points in reading is associated with a 34% decrease in the likelihood of repeating a grade.⁸

Figure II.5.6 • Factors associated with grade repetition

Student-level analysis, OECD average



1. The socio-economic profile is measured by the PISA index of economic, social and cultural status.

Notes: Statistically significant coefficients are marked in darker tone (see Annex A3).

All nine explanatory variables are included jointly in a logit regression model explaining grade repetition.

The level of confidence that a relationship exists measured in z-scores is shown inside the bars.

Source: OECD, PISA 2015 Database, Table II.5.13.

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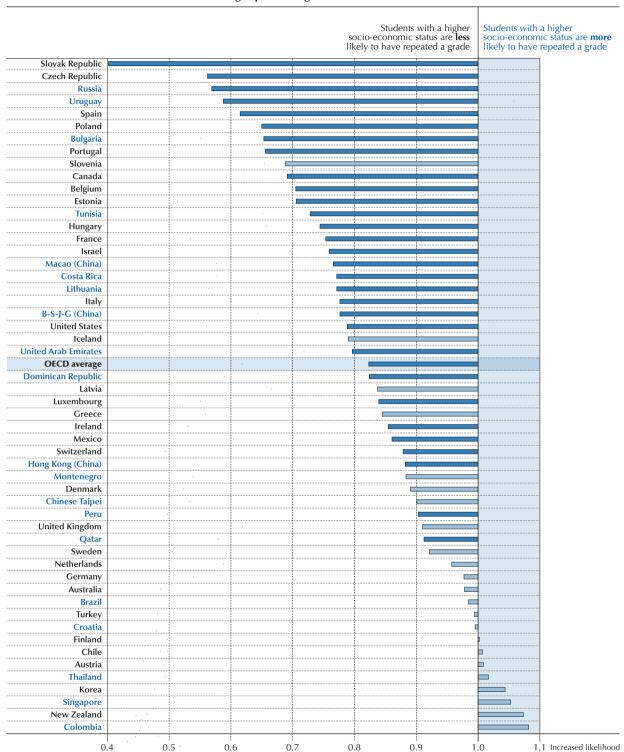
In addition to student performance, the behaviour and motivation of students are also related to grade repetition. Students who reported that they had skipped a day of school or arrived late for school at least once in the two weeks prior to the PISA test are 38% and 24% more likely, respectively, to have repeated a grade than students who reported that they had not done so. Students who agreed with statements such as "I want top grades in most or all of my courses", "I see myself as an ambitious person" or "I want to be one of the best students in my class" – all components of the index of achievement motivation – are less likely to have repeated a grade than students who did not agree with such statements (Figure II.5.6).

Many people would agree that performance, behaviour and motivation are legitimate reasons for deciding which students repeat a grade. However, what is more troubling is that, even after accounting for students' academic performance, and self-reported behaviour and attitudes, in many education systems, a student with certain characteristics is more likely to have repeated a grade than other students. For instance, across OECD countries, boys are more likely than girls, socio-economically disadvantaged students are more likely than advantaged students, and students with an immigrant background are more likely than students with no immigrant background to have repeated a grade. In some countries, like Austria, Colombia, Korea, New Zealand, Singapore or Thailand, advantaged and disadvantaged students are equally likely to have repeated a grade, after accounting for their academic performance, behaviour and motivation (Figure II.5.7). However, in others, such as Bulgaria, Canada, the Czech Republic, Poland, Portugal, Russia, the Slovak Republic, Spain or Uruguay, disadvantaged students are more likely to have repeated a grade than advantaged students.



Figure II.5.7 ■ Students' socio-economic profile¹ and grade repetition

Increased likelihood of having repeated a grade associated with socio-economic status



^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status.

Notes: The logit regression model accounts for students' performance, truancy, motivation, gender and immigrant background. Statistically significant coefficients are marked in a darker tone (see Annex A3).

Countries and economies are ranked in ascending order of the likelihood of having repeated a grade at least once in primary or secondary school. Source: OECD, PISA 2015 Database, Table II.5.13.

StatLink http://dx.doi.org/10.1787/888933436132

of having repeated a grade (odds ratio)



HORIZONTAL STRATIFICATION: HOW EDUCATION SYSTEMS ORGANISE SCHOOL PROGRAMMES

Students with different abilities and interests are found in every grade and school. School systems address this diversity in different ways. They can offer a single, comprehensive programme in which students of different abilities and aspirations are exposed to similar content, pedagogy and peers, delaying any type of sorting and giving more time for "late bloomers". They can also group students of similar abilities, interests and motivation into the same schools or classes so that what is learned (content and difficulty) and how it is taught (pedagogy and instruction) can be tailored to better meet students' skills and interests. This type of stratification, referred to as "horizontal" stratification in this report, is the product of decisions made at the system level, such as offering the choice of general/academic and vocational programmes; of decisions made at the school level, such as admitting students based on their academic records, interests or social background, or grouping students by ability between classes (Dupriez et al., 2008); and of decisions made by parents, such as choosing a place to live and a school for their children.

Despite some potential advantages of this type of stratification, such as creating more homogeneous classes or preparing less academically-oriented students for the labour market, there is some concern that tracking replicates socio-economic disparities (Oakes, 2005) and increases inequalities in education (Hanushek and Woessmann, 2006; Maaz et al., 2008). Sorting students into different schools also seems to be particularly negative for disadvantaged and low-performing students (Epple et al., 2002; Pekkarinen et al., 2009), unless there is a greater emphasis on vocational skills in these schools (Heisig and Solga, 2015).

Differentiation among education programmes: Age at selection, and the number and types of study programmes

In comprehensive school systems, all 15-year-old students follow the same programme; in differentiated school systems, students are streamed into different programmes. Some of these programmes may be primarily academic, others primarily vocational, and others still may be combinations of academic and vocational elements (Kerckhoff, 2000; LeTendre et al., 2003). Differentiated systems must determine the age at which students will be sorted into these different programmes. Evidence from PISA 2012 shows that in countries and economies that sort students into different education programmes at an early age, the impact of students' socio-economic status on their performance is stronger than in systems that select and group students later (OECD, 2013).

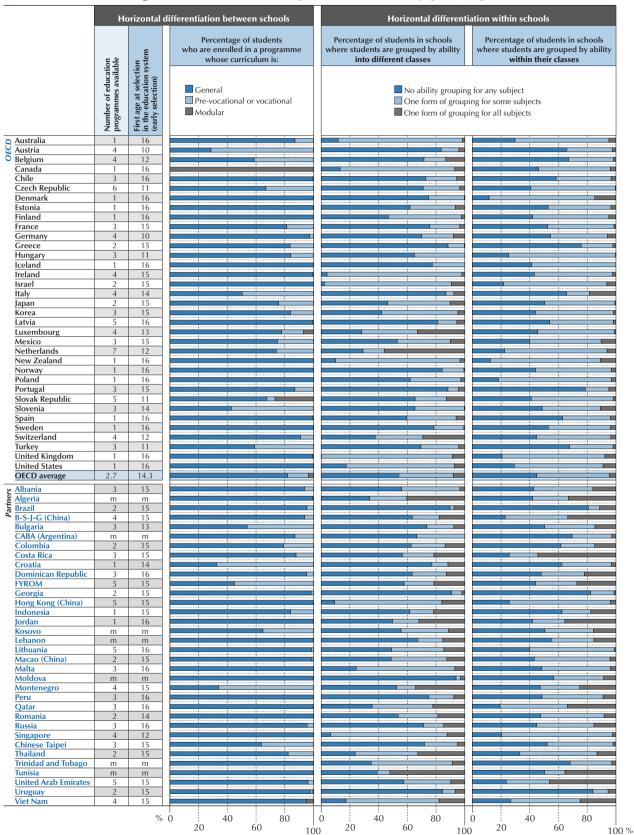
On average across OECD countries, school systems begin selecting students for different programmes at the age of 14 (Figure II.5.8). Some OECD countries, including Austria and Germany, start selecting students as early as age 10; but the most common age at selection is 16, the practice followed in Australia, Canada, Chile, Denmark, Estonia, Finland, Iceland, Latvia, New Zealand, Norway, Poland, Spain, Sweden, the United Kingdom and the United States. Among the 31 partner countries and economies with available data, the most common practice, observed in 18 education systems, is to start selection into different programmes at the age of 15. A few countries select students earlier: Argentina, Croatia and Romania begin selecting students for different programmes at age 14, Bulgaria begins at age 13, and Singapore starts as early as age 12. The Dominican Republic, Jordan, Lithuania, Malta, Peru and Qatar delay selection into different study programmes until students are 16 years old (Table II.5.27).

The number of school types or distinct education programmes available to 15-year-old students also varies across countries (Figure II.5.8). Among OECD countries, it ranges from a single school type or programme in Australia, Canada, Denmark, Estonia, Finland, Iceland, New Zealand, Norway, Poland, Spain, Sweden, the United Kingdom and the United States, to five or more programmes in the Czech Republic, Latvia, the Netherlands and the Slovak Republic. Among partner countries and economies with available data, Croatia, Indonesia and Jordan offer a single programme. Most frequently, students attend two or three programmes (in 17 out of 31 countries and economies), but B-S-J-G (China), Montenegro, Singapore and Viet Nam offer four programmes; FYROM, Hong Kong (China), Lithuania, Malaysia and the United Arab Emirates offer five programmes; and students in Kazakhstan can choose from eight distinct education programmes or school types at the age of 15.

PISA 2015 asked students to report on the kind of programme in which they are enrolled. Students' responses were then classified into three categories of programme orientation: general, pre-vocational or vocational, or modular. In 2015, across OECD countries, an average of 82% of 15-year-old students were enrolled in a programme with a general curriculum, 14% were enrolled in a programme with a pre-vocational or vocational curriculum, and 4% were in modular programmes that combine characteristics of the other two programmes (Figure II.5.8). In 27 countries, including OECD countries Chile, Denmark, Estonia, Finland, Iceland, Ireland, Israel, Latvia, New Zealand, Norway, Poland, Spain, Sweden, the United Kingdom, and the United States, more than 99% of 15-year-old students were enrolled in a general programme.







Source: OECD, PISA 2015 Database, Tables II.5.14, II.5.22, II.5.27. StatLink IIII http://dx.doi.org/10.1787/888933436141



Enrolment in vocational or pre-vocational programmes is largest in Austria, Croatia, FYROM, Montenegro and Slovenia, where more than one in two students follow this curricular orientation at the age of 15. The largest proportions of students enrolled in modular programmes are found in Canada, with all students enrolled in such programmes, and the Slovak Republic with one in four students enrolled in such programmes.

On average across OECD countries, the percentage of students enrolled in vocational or pre-vocational programmes decreased by 1 percentage point between 2009 and 2015. This modest change masks much more substantial trends in some countries. For example, in Romania, the Slovak Republic, and Trinidad and Tobago, the percentage of students enrolled in these programmes dropped by more than 10 percentage points over the period. In the Slovak Republic, the reduction of 35 percentage points in the share of students enrolled in vocational or pre-vocational programmes is mostly explained by a much larger enrolment in modular programmes. Students in Bulgaria and France were more likely – by eight percentage points or more – to attend programmes with a pre-vocational or vocational curriculum in 2015 than their counterparts were in 2009 (Table II.5.16).

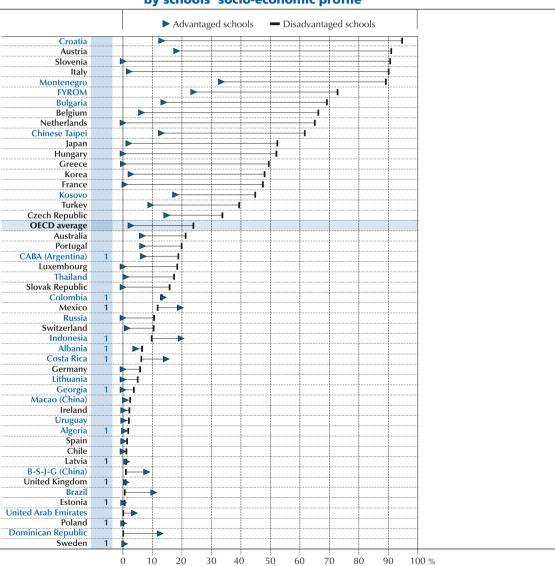


Figure II.5.9 • Enrolment in pre-vocational or vocational programmes, by schools' socio-economic profile

Countries and economies are ranked in descending order of the percentage of students in disadvantaged schools who are enrolled in a pre-vocational or vocational programme.

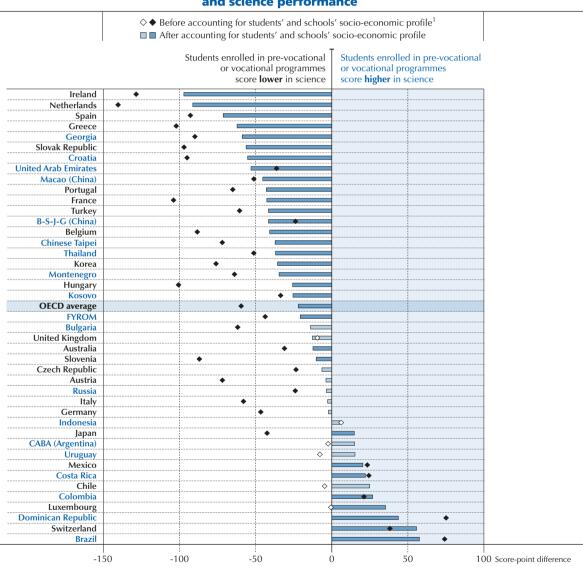
Source: OECD, PISA 2015 Database, Table II.5.17.

^{1.} Differences between advantaged and disadvantaged schools are not statistically significant (see Annex A3).



In countries and economies with large enrolments in pre-vocational or vocational programmes, these enrolments vary markedly according to schools' socio-economic profiles. On average across OECD countries, the proportion of 15-year-old students enrolled in a vocational track is 21 percentage points smaller among students in advantaged schools than among students in disadvantaged schools. The difference in enrolment in pre-vocational or vocational programmes related to schools' socio-economic profile is largest in Austria, Croatia, Italy, the Netherlands and Slovenia (Figure II.5.9). In these countries, the difference in enrolment in these programmes between students in advantaged and disadvantaged schools is 60 percentage points or larger. In Austria and Italy, the incidence of enrolment in vocational programmes is also significantly higher, by a margin of 15 percentage points or more, among students attending rural schools than among their peers in urban schools; however, there is no significant difference, on average, across OECD countries. In Austria, Croatia, FYROM and Slovenia, public school students are over 25 percentage points more likely than private school students to enrol in vocational or pre-vocational programmes. Across OECD countries, the difference is a statistically significant 3 percentage points.

Figure II.5.10 • Enrolment in pre-vocational or vocational programmes and science performance



1. The socio-economic profile is measured by the PISA index of economic, social and cultural status.

Note: Statistically significant differences are marked in a darker tone (see Annex A3).

Countries and economies are ranked in ascending order of the change in science score when students are enrolled in a pre-vocational or vocational programme, after accounting for students' and schools' socio-economic profile.

Source: OECD, PISA 2015 Database, Table II.5.17.



When considering the performance of students enrolled in general, modular and vocational programmes, students in general or modular programmes score 22 points higher on the PISA 2015 science assessment than students in prevocational or vocational programmes, on average across OECD countries after accounting for students' and schools' socio-economic profile (Figure II.5.10). However, among countries and economies where enrolment rates in vocational programmes are higher than 10%, these performance differences can amount to as much as 91 score points, as in the Netherlands, approximately 60 score points, as in Greece, or between 40 and 60 score points, as in Belgium, Croatia, France, Portugal and Turkey. In some school systems, such as Brazil, Colombia, Costa Rica, the Dominican Republic, Japan, Luxembourg, Mexico and Switzerland, students in pre-vocational or vocational programmes score higher in science than students in general or modular programmes.

School admissions policies

Admissions and placement policies establish frameworks for selecting students for academic programmes and for streaming students according to career goals, education needs and academic performance. In countries with large differences in student performance between programmes and schools, admissions and grouping policies have high stakes for parents and students. The most effective schools may be those more successful in attracting motivated students; conversely, a "brain drain" of students can undermine schools that cannot attract or retain high-performing students.

PISA 2015 asked school principals to report on the extent to which different criteria are considered for admitting students to their schools. Six potential and not mutually exclusive criteria for admissions were considered: students' academic performance, based on past records, placement tests or both; recommendations of feeder schools; parental endorsement of the instructional or religious philosophy of the school; students' requirement of or interest in a special programme offered by the school; preference to family members of current or former students; and families' residence in a particular area (Table II.5.18).

According to principals' reports, on average across OECD countries, 41% of students attend schools where residence in a particular area is always considered as part of the criteria for admission. In Canada, Greece, Norway, Poland and Switzerland, more than two in three students are enrolled in such schools, whereas in Belgium, Bulgaria, Chile, FYROM, Macao (China), Mexico, Macao (China), Montenegro and Slovenia, the same proportion of students attends schools where residential location is never used to determine admissions.

Students' prior academic performance is another widely used criterion for admissions in PISA-participating countries and economies. On average across OECD countries, 38% of students attend schools where prior academic performance is always considered as a factor in the admissions process. In Bulgaria, Croatia, Hong Kong (China), Hungary, Japan, Singapore, Thailand and Viet Nam, more than eight in ten students attend schools that consider this criterion; but in Finland, Greece, Norway, Spain and Sweden, at least seven out of ten students attend a school that never bases admission on student performance.

Students' requirement of or interest in a special programme is the third criterion most commonly cited by school principals as always used in admissions decisions. On average across OECD countries, 28% of students are in schools where this consideration is always applied. By contrast, fewer than one in five students, on average across OECD countries, attends a school that always considers the recommendation of feeder schools, parental endorsement of the instructional or religious philosophy of the school, or whether an applicant's family members have attended or are attending the school during the admissions process.

On average across OECD countries, the percentage of students in schools where prior academic performance is always considered for admission remained the same between 2012 and 2015; in Chile, Korea and the Netherlands, this percentage shrank by over 15 percentage points. By contrast, the percentage of students in schools that always select students based on their prior academic achievement increased by 35% in Turkey and by 22% in Romania during the period (Table II.5.20).

According to principals' reports, on average across OECD countries, the percentage of students in schools that always use residence in a particular area as part of their selection criteria remained the same between 2012 and 2015. However, in several countries and economies, the importance of residential criteria for school admissions changed significantly over the period. In Lithuania and Turkey, the percentage of students in schools that always select students on the basis of residence decreased by approximately 15 percentage points over the period, while students in Russia and Switzerland were more likely in 2015 than their counterparts were in 2012 (by 15 percentage points or more) to attend schools that always take into account residential rules for admissions.

On average across OECD countries, the percentage of schools that always consider recommendations of feeder schools did not change over the period. By contrast, schools were more likely in 2015 than in 2012 to always consider whether



the parents endorse the philosophy of the school or whether the student requires or is interested in a special programme. On average, schools were also slightly more likely in 2015 than in 2012 to afford special treatment to family members of current or former students.

Are selective admissions policies related to student performance? Results from PISA 2015 suggest that, on average across OECD countries, the association between different school admissions criteria and student performance in science is modest, after accounting for students' and schools' socio-economic profile. For instance, students attending schools that consider prior academic performance as a criterion for admission tend to score five points higher on the science assessment than students enrolled in schools that never use this criterion. But score-point differences in performance related to this policy can be as large as 20 points or more in Austria, B-S-J-G (China), Hungary, Qatar, Turkey and the United Arab Emirates (Table II.5.21).

Three other admissions policies, namely parental endorsement of the instructional or religious philosophy of the school, preference for family members of current or former students, and residential location, are negatively associated with student performance across OECD countries. The performance differences between students in schools that apply and do not apply these criteria are small, ranging between three and five score points, on average.

However, in some countries and economies, selection based on these criteria is more strongly associated with performance. In France, Japan and Uruguay, for example, students attending schools where affinity with the instructional or religious philosophy of the school is considered score 20 points or more below their peers who attend schools that disregard this consideration. In Japan, Kosovo and Chinese Taipei, students attending schools that always or sometimes give priority in admissions to family members of current or former students score more than 20 points below students in schools that do not consider this criterion. And in Qatar, Singapore, Slovenia, Turkey and the United Arab Emirates, students attending schools that apply a catchment area criterion in their admissions policy score 20 or more points below students who attend schools that do not apply this criterion. Overall, the results suggest that, even after accounting for the socio-economic profile of both students and schools, admissions policies at the school level are associated with student performance, although these associations tend to be weak and are observed in less than half of the countries and economies that participated in PISA 2015.

Other policies and practices that sort students between schools

School transfer policies can also affect the extent of horizontal stratification between schools. Transferring students out of school because of low academic achievement, behavioural problems or special learning needs is one way that schools reduce heterogeneity in the learning environment and facilitate instruction for the remaining students. While PISA 2015 did not collect information about school transfers, prior PISA assessments asked school principals about policies governing student transfers, namely about the likelihood of transferring a student to another school for different reasons, including low or high academic achievement, behavioural problems, or special learning needs. In 2012, on average across OECD countries, 13% of students attended schools whose principals reported that the school would "very likely" transfer students because of low achievement, behavioural problems or special learning needs.

Another policy with a potentially substantial impact on horizontal stratification is allowing families to choose their child's school. School choice and its relation to science performance and school characteristics are examined along with other school governance issues in Chapter 4.

Are stratification policies related to academic inclusion across schools?

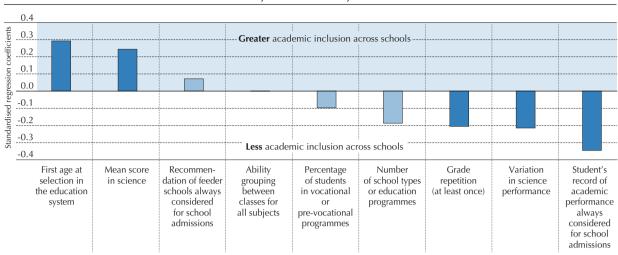
One way in which the academic inclusion of an education system can be measured is the extent to which student performance varies between and within schools, in relation to the total variation in student performance. According to the index of academic inclusion, in a perfectly inclusive education system (i.e. a value of "100"), all schools would have the same academic performance, whereas the students within these schools would perform differently. Conversely, a completely exclusive system (i.e. a value of "0") would be one where schools have marked differences in their academic performance, but all the students attending these schools have exactly the same academic performance (see Volume I, Chapter 6 for further details). Many of the horizontal stratification policies described in this section are expected to contribute to the academic inclusion of an education system; but how exactly are these policies associated with academic inclusion?

The system-level analysis in Figure II.5.11 shows that considering students' record of academic performance as a criterion for admission to school, the first age at selection into different academic programmes (i.e. early tracking), and grade repetition are the policies most strongly associated with academic inclusion across schools. The less selective school admissions policies are, the later students are selected into different academic programmes, and the fewer the students who had repeated a grade, the greater the academic inclusion across schools (meaning that student performance varies more within schools than between schools).



Figure II.5.11 • Factors associated with academic inclusion in science performance

System-level analysis



Notes: All variables are included in the same regression model and explain 62% of the variance in the index of academic inclusion (R2).

Statistically significant coefficients are marked in a darker tone.

Analysis based on 64 countries and economies.

Source: OECD, PISA 2015 Database.

StatLink http://dx.doi.org/10.1787/888933436172

100 Social inclusion across schools (%) Norway 90 Sweden Iceland Çanada Finland Montenegro ◆ New Zealand **♦** Denmark Trinidad and Tobago **♦ FYROM** ◆ FYROM United

OECD average Kingdom Algeria 🄷 ◆ Ireland Switzerland $R^2 = 0.21$ 80 United Arab Emirates Japan Q Germany Q Italy Croatia Rus Malta **♦**Korea Netherlands Qatar Greece Lithuania Australia Slovenia Belgium Singapore◆ Portugal ◆ Turkey 🔷 United States Czech Republic Austria Luxembourg Georgia 🔷 70 Moldova ◆ Dominican Republic Spain Macao (China) Bulgaria 🌢 Brazil Slovak Republic Uruguay Viet Nam Hungary < Costa Rica Thailand Lebanon 60 Mexico B-S-J-G (China) Colombia Chile Indonesia 🔷 50 CABA (Argentina) 40 50 70 40 60 80 90 100 Academic inclusion across schools (%)

Figure II.5.12 ■ Academic and social inclusion across schools

Notes: The index of academic inclusion is calculated as 100*(1-rho), where rho stands for the intra-class correlation of performance. The intra-class correlation, in turn, is the variation in student performance between schools divided by the total variation in student performance.

The index of social inclusion is calculated as 100*(1-rho), where rho stands for the intra-class correlation of socio-economic status. The intra-class correlation, in turn, is the variation in students' socio-economic status between schools divided by the total variation in students' socio-economic status. The socio-economic status is measured by the PISA index of economic, social and cultural status.

Source: OECD, PISA 2015 Database, Tables I.6.9 and I.6.10.



Interestingly, the percentage of students in pre-vocational or vocational programmes, considering the recommendations of feeder schools as a criterion for school admission, and grouping students by ability between classes (within schools) are not associated with academic inclusion.

Social cohesion may be at a greater risk in education systems where students are both academically and socio-economically segregated across schools (i.e. low academic and social inclusion). Figure II.5.12 shows that school systems that are more socio-economically inclusive (meaning that students' socio-economic status varies more within schools than between schools) also tend to be more academically inclusive. However, some countries and economies, such as the Netherlands, have low academic inclusion (performance varies considerably between schools) and high social inclusion (advantaged and disadvantaged students are relatively evenly distributed across schools), whereas others, like Spain, have high academic inclusion and low socio-economic inclusion (see Box II.5.2 for further information on the Netherlands).

Box II.5.2 Stratification policies in the Netherlands: Context matters

The education system in the Netherlands provides an opportunity to consider stratification policies from an equity perspective. The Dutch system makes extensive use of early tracking (horizontal stratification; Figure II.5.8) and school choice (OECD, 2012) and is above the OECD average in grade repetition rates (vertical stratification; Figure II.5.3). Yet the country is a consistently high performer in international assessments and shows satisfactory levels of academic equity. In particular, the Netherlands has policies and practices in place to mediate the effects of early tracking.

As in many other countries, most students in the Netherlands start secondary education at the age of 12. What distinguishes their path through education from that of their counterparts in many other countries is that, after completing primary school, they no longer follow a unified curriculum. Instead, they are selected into one of eight¹ different programmes that will prepare them for vastly different occupations later in life. For those who are educated in comprehensive systems, these choices are typically made much later, at the age of 15 or 16, once students have had more time to develop and explore their academic potential and their career interests (OECD, 2016a).

The eight programmes available to Dutch students are largely organised within four orientations: practical training, which lasts four years; pre-vocational programmes, which also last four years; senior general education, which lasts five years and prepares students for applied studies at the university level; and pre-university secondary education, which lasts six years and prepares students for tertiary education. Nearly half of students enrol in pre-vocational programmes, 28% in general education, 19% in the pre-university track and 2% in practical training. Special secondary education is also available; in 2010, 3% of primary school leavers enrolled in special programmes (OECD, 2016a; Nusche, D. et al., 2014).

Given the high number of education tracks available in the country and the early age at selection into them, one would expect to see considerable discrepancies in academic performance between schools. In fact, the Netherlands' score on the PISA 2015 measure of academic inclusion across schools confirms this: 58% of the variation in students' science performance is attributable to the variation between schools – the highest percentage among all PISA-participating countries and economies (the OECD average is 30%; Figure II.5.12). But these results are not entirely surprising, given students' early selection into tracks based on their performance, the different curricula they follow in distinct tracks and likely peer effects.

However, the country's score on the PISA 2015 index of social inclusion is near the OECD average (Figure II.5.12). Specifically, 22% of the variation in students' socio-economic status lies between schools, compared to the OECD average of 23%. The low academic inclusion in the Netherlands is not associated with greater socio-economic segregation of students across schools. This could be one of the reasons why, despite using grade repetition and placing students in different academic programmes at an early age, only 12.5% of the variation in science performance is attributed to students' socio-economic status (Table I.6.12a), compared to 12.9% on average across OECD countries. It may also explain why the proportion of low performers in science (those who score below proficiency Level 2) among disadvantaged students is smaller in the Netherlands than the OECD average. Specifically, in the Netherlands, 30% of students in the bottom quarter of the PISA index of economic, social and cultural status are low performers in science compared with 34% on average across OECD countries.

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Almost universal pre-primary education. Although compulsory education begins at age 5, enrolment in early childhood education and care at age 4 is nearly universal in the Netherlands. Unlike many other countries, a substantial proportion (nearly one-third) of spending on pre-primary education comes from public funds. Day care centres and pre-kindergartens also offer free supplementary programmes for disadvantaged children between the ages of 2.5 and 6 years for up to four days per week. These programmes, called VVE (*voor en vroeg schoolse educatie*), focus on Dutch language development and are publicly funded.

Compulsory education with autonomy and accountability. Education is compulsory from the age of 5 to 18. Primary school lasts 8 years, typically from the age of 4 to 12. There is no national curriculum; instead, there are national attainment targets and reference levels for literacy and numeracy, which gives schools and teachers considerable freedom in selecting content and teaching methods. At the end of primary school, students are selected into one of the education tracks offering practical training, pre-vocational, general and pre-university secondary education. Students are assigned to various tracks based on their performance on a national examination at the end of primary school and on their primary teachers' recommendation. Responsibility over national education policy, examinations and standards of quality lies with central authorities while matters concerning school management and school policies are largely decided at the local level by school boards and schools. Teachers are evaluated every three or four years, and the results of their appraisal can have an impact on their career advancement.

School choice. Parents have considerable freedom in selecting their child's school, but schools may also establish their selection criteria, especially at the secondary level. School choice is valued and abundant, particularly in densely populated areas, where nearly 90% of primary school children live within one kilometre of their school (OECD, 2016a).

Equitable allocation of funds. Public funds account for most of the spending on educational institutions at all levels. With the exception of some schools funded entirely by private sources, public funds are allocated equitably between public and private schools, provided that certain criteria are met. This may help prevent serious imbalances in school resources and in schools' socio-economic profile. The Netherlands is one of the PISA-participating education systems where principals in socio-economically disadvantaged schools are not more concerned than principals in advantaged schools about the resources at their school (see Tables II.6.2 and II.6.15 in Chapter 6). It is also one of the education systems where principals in public schools are equally concerned about the material and human resources at their school as principals in private schools.

Additional funding mechanisms. Schools receive block grants based on their student population, and special funds are available to schools that serve disadvantaged students as well as those with special needs. At the primary level, schools receive grants from the government based on the educational background of the parents. At the secondary level, schools also receive extra funds for disadvantaged students; those funds, however, are not based on the educational background of the parents, but on school location. Targeted funding is also available to schools for special purposes (e.g. dropout prevention) and weighted formulas are used to ensure social diversity in schools. At the tertiary level, even though students pay a tuition fee, they are entitled to grants and loans based on their family's socio-economic status. Performance-based budgeting is another option for schools to help boost the performance of students, teachers and school leaders at these levels.

Higher-than-OECD-average spending on secondary education. Expenditure per student in general programmes is USD 10 804 compared to the OECD average of USD 9 484. In vocational programmes, annual spending per student is more than twice the OECD average: USD 16 002 (the highest amount among countries with available data) compared to the average of USD 7 380 (OECD, 2015).

Wide range of vocational education programmes. The entry point of vocational training is the pre-vocational secondary education programme that is offered from grades 7 to 10 and prepares students for further vocational training or general education. Pre-vocational programmes consist of four types of schooling, each with a special emphasis: theoretical; combined (mixing theoretical and practical subjects); middle-management (for those interested in further vocational training); and basic vocational (a mixture of general education and practical experience). Upper secondary vocational education (starting at grade 11) is also diversified, but well-structured. Training is available at four different levels: training to become an assistant (level 1) lasts one year or less; basic training (level 2) requires between 2 and 3 years; professional training (level 3) lasts 2 to 4 years; and middle management

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training (level 4) lasts about 4 years. Upper secondary vocational education operates on two parallel structures: apprenticeship and school-based tracks, both of which combine learning and working. The vocational system has strong ties to the labour market: in 2012, more than half of the labour force had a vocational qualification (OECD, 2016a). Relatively few young people in the Netherlands are neither employed nor in education or training (NEET).

General education. Two secondary programmes prepare students for higher education. Students in the general education track typically pursue their university-level education in applied sciences, while those in the pre-university track can gain access to all universities. Even though a considerable proportion of students is selected into vocational tracks, the share of 25-34 year-olds who attain tertiary education is larger in the Netherlands than the OECD average: 44% compared to the average of 41% (OECD, 2016b). But the pre-university track appears to be relatively inaccessible to certain groups of students: in the 2008/09 school year, students from the most advantaged families were four times more likely to be enrolled in that track than those from the most disadvantaged backgrounds (OECD, 2016a).

Track mobility and access to tertiary education. The risk of placing such young students in secondary programmes that do not correspond to their current or potential performance can, in principle, be offset by some built-in mechanisms in the system. First, students are allowed to transfer between programmes, although in reality, practical barriers may discourage such mobility. Second, in the first years of secondary school, teachers can use their discretion and, when needed, delay the selection of students by placing them in "bridge classes". Third, a legal framework of "scaffolding" diplomas allows students, upon graduation from their track level, to automatically proceed to the next level. This enables graduates from every programme to pursue tertiary education, although graduates from vocational programmes will be on a longer route.

Career guidance. Extensive counselling and career guidance is available at critical transition points (from primary to secondary education and from secondary to tertiary education) to help guide students through the various choices of programmes available.

Teaching, a valued profession. Teachers' salaries are higher than the OECD average, but relatively lower when compared to similarly educated professionals in the country (OECD, 2016b). Compared to the OECD average, a larger proportion of teachers in the Netherlands considers teaching to be a valued profession in society. Renewed efforts are underway to attract high-performing students into teaching, improve pre-service training, provide support to teachers at various stages of their career, and strengthen a results-oriented culture (OECD, 2016a).

While early tracking generally exacerbates existing social and economic disparities among students, the Netherlands example shows that it can be mitigated to some extent. As students progress into secondary education, even those placed in the lower tracks are unlikely to be in schools that suffer from a shortage or lack of resources or staff. The rigidity of the tracking system may also be softened by the possibility of transfers. In short, the education system behind early tracking is well-structured, well-resourced, and includes various opportunities along students' path through education to correct some obvious socio-economic imbalances, starting from early childhood all the way up to tertiary education.

Note

1. The eight programmes available to 12-year-old students include: practical training (PRO), pre-vocational education (VMBO; 4 levels), senior general secondary education (HAVO), pre-university education (VWO), and special secondary education (VSO). The seven programmes available to 15-year-old students (Table II.5.27) include all the programmes above except the special secondary education, which varies in duration.

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Horizontal stratification within schools: Ability grouping

Nearly all schools have to decide how to handle diversity in students' learning abilities and interests. Ability grouping refers to the practice of sorting students within the schools they attend based on ability or prior performance, most often with the objective of better meeting students' needs by creating a more homogeneous learning environment. Ability grouping may occur within or between classes in a given school.

Some schools mix students of all levels of performance into the same classrooms and teach them the same curriculum. This approach relies heavily on teachers' capacity to engage students with a wide range of abilities, which can be challenging, but can create greater opportunities for students to learn from each other. Other schools sort their lowest-performing and highest-performing students into different classrooms, and offer them different curricula or the same curriculum, but at different levels of difficulty ("ability grouping"). While grouping by ability creates more homogeneous classes, students in lower-ability groups often do not benefit as much as those in the higher-ability groups from this way of sorting students, partly because underachieving students cannot learn from or be inspired by their higher-performing peers if they are not sitting in the same classroom (Lucas, 1999).

Ability grouping within the same school appears to be becoming popular again (Garelick, 2013). A recent field experiment conducted by Duflo, Dupas and Kremer (2011) in Kenya observed significant academic gains from separating students by achievement, including low-performing students, into different classes. These gains persisted one year after the programme ended. Similar beneficial effects of sorting students by achievement were observed by Borman and Hewes (2002), Collins and Gan (2013) and Zimmer (2003) in the United States. However, correlational evidence at the system level suggests that there is only a weak relationship between ability grouping within schools and the share of low/top performers in an education system (OECD, 2016c).

PISA 2015 asked school principals whether their schools organise instruction differently for students with different abilities. Principals reported separately on whether students were grouped by ability into different classes or within the same classes, and whether this happened for all, some or none of the subjects.

Ability grouping between classes

Across OECD countries, 46% of students attend schools whose principal reported that students are grouped by ability into different classes (Table II.5.22). This comprises 38% of students who are grouped for some subjects, and 8% of students who are grouped for all subjects. However, the incidence of ability grouping between classes varies widely among countries. In Austria, Brazil, Georgia, Greece, Italy, Latvia, Moldova, Norway, Portugal and Uruguay, less than 20% of students are grouped by ability into different classes. By contrast, in Australia, Canada, Hong Kong (China), Ireland, Israel, Malta, New Zealand, Singapore, Thailand, the United Kingdom, the United States and Viet Nam, at least three in four students receive instruction in at least one subject in an ability-grouped class.

Sorting students into different classes for all subjects based on their ability is most common in Algeria, Jordan, Luxembourg, Montenegro, the Netherlands, Thailand and Tunisia, where this practice affects between 30% and 60% of students (Table II.5.22). A substantial proportion of students in these countries is also grouped by ability for some subjects.

Between 2006 and 2012, the percentage of students who are grouped into different classes increased by 1.1% across OECD countries (Table II.5.24). This slightly higher incidence of ability grouping reflects a 4 percentage-point increase in the percentage of students who are grouped for only some subjects and a 3 percentage-point decrease in the percentage of students grouped for all classes. Hong Kong (China) had the largest increase in the incidence of ability grouping between classes (43 percentage points), reflecting a wider use of subject-specific ability grouping. Principals in Brazil, Korea and Romania reported a reduction in ability grouping of more than 20 percentage points. In Brazil, this largely reflects less ability grouping for all subjects, while in Korea the reduction was almost entirely due to reduced subject-specific ability grouping.

Ability grouping within classes

Ability grouping within classes is more common than ability grouping between classes. On average across OECD countries, 55% of students attend classes in at least one subject where there is ability grouping (Table II.5.22). This comprises 50% of students who are instructed in some subjects in classes where ability grouping is used and 5% of students where ability grouping within a class is used for all subjects.



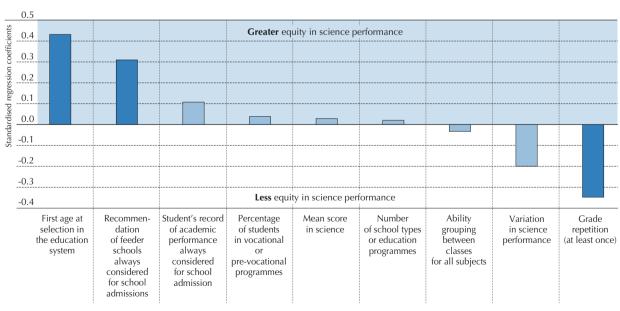
In 24 countries and economies, more than one in two students attend schools that sort students by ability, within classes, for some but not all subjects. This proportion is highest in Denmark, Hong Kong (China), Hungary, Israel, the Netherlands, New Zealand, Poland, Singapore and the United Kingdom, where between 70% and 80% of students attend such schools. Within-class sorting for all school subjects is most common in Algeria, B-S-J-G (China), Costa Rica, Jordan, Qatar, Tunisia and the United Arab Emirates, where between 30% and 55% of students are systematically sorted by ability within their classes. By contrast, in Ciudad Autónoma de Buenos Aires (Argentina) (hereafter "CABA [Argentina]"), Belgium, Brazil, Georgia, Greece, Portugal, Trinidad and Tobago, Turkey and Uruguay, fewer than one in three students attends a school that groups students by ability within their classes (Table II.5.22).

Grouping students by ability for specific subjects became more common between 2006 and 2015. On average across OECD countries, the share of students in schools where students are grouped by ability within classes for some subjects increased by 4 percentage points over the period, while there was no significant change in the percentage of students who are sorted within their classes for all subjects (Table II.5.24). In Hong Kong (China), Luxembourg, Macao (China), Poland and the United States, more than one in two students in 2015 attended classes where there is ability grouping for at least for one subject, while this practice involved fewer than one in two students in 2006. The proportion of students subject to within-class ability grouping increased by more than 25 percentage points in each of these countries during this time. By contrast, ability grouping for some subjects became much less common in Brazil, Indonesia and Jordan, where the percentage of students grouped for at least some subjects shrank by more than 25 percentage points over the period.

HOW POLICIES ON GROUPING AND SELECTING STUDENTS ARE RELATED TO EQUITY IN SCIENCE PERFORMANCE

Policies on stratification, such as grade repetition or placing students into different programmes or schools at an early age, are related to equity in science performance (or the extent to which students' socio-economic status is associated with student performance in science). Comparing 64 education systems with data for all 9 variables analysed, equity in science performance is most strongly associated with the age at first selection into the education system, grade repetition, and whether schools always consider the recommendations of feeder schools for school admissions (Figure II.5.13).

Figure II.5.13 • Factors associated with equity in science performance System-level analysis



Notes: Statistically significant coefficients are marked in a darker tone (see Annex A3).

All variables are included in the same regression model and explain 44% of the variance in equity in science performance (R2).

Analysis based on 64 countries and economies.

Source: OECD, PISA 2015 Database.



Figure II.5.14 ■ Use of selected stratification policies in PISA-participating countries

Countries/economies are **above** the OECD average Countries/economies are not statistically different from the OECD average Countries/economies are **below** the OECD average

	Countries/economies are bei	Countries/economies are below the OECD average						
	Grade Repetition	Tracking	School Admission based on Academic Performance	Between Classroom Ability Grouping				
	Percentage of students who have repeated a grade at least once in primary, lower secondary or upper secondary school	Age of selection into	Percentage of students in schools whose principals reported that "students' records of academic performance (including placement tests)" are "always" considered for admittance	Percentage of students in schools where students are grouped by ability into different classes for all subjects				
OFCD	%	different programmes	%	%				
OECD average	11.3	14.3	38.4	7.8				
Australia	7.1	16	34.0	1.6				
Austria	15.2	10	73.8	4.0				
Belgium Canada	34.0 5.7	12 16	28.4 30.5	13.1 6.8				
Chile	24.6	16	17.3	5.6				
Czech Republic	4.8	11	53.6	3.5				
Denmark	3.4	16	9.0	0.2				
Estonia	4.0	16	27.5	6.6				
Finland	3.0 22.1	16 15	5.5	2.3				
France Germany	18.1	10	33.9 47.8	3.4 8.0				
Greece	5.0	15	6.3	0.3				
Hungary	9.5	11	81.3	0.0				
Iceland	1.1	16	15.7	0.0				
Ireland	7.2	15	22.3	2.0				
Israel	9.0	15	52.0	9.3				
Italy	15.1 0.0	14 15	49.2 92.3	7.6 10.1				
Japan Korea	4.7	15	92.3	4.7				
Latvia	5.0	16	30.5	5.4				
Luxembourg	30.9	13	74.9	33.0				
Mexico	15.8	15	59.6	10.0				
Netherlands	20.1	12	74.5	56.1				
New Zealand	4.9	16	37.8	3.2				
Norway Poland	0.0 5.3	16 16	5.6 16.8	0.5 2.7				
Portugal	31.2	15	30.9	4.3				
Slovak Republic	6.5	11	57.0	12.9				
Slovenia	1.9	14	32.6	0.2				
Spain	31.3	16	5.3	6.0				
Sweden	4.0	16	6.0	0.6				
Switzerland Turkey	20.0	12 11	57.9 77.0	29.2 4.2				
United Kingdom	2.8	16	21.1	8.5				
United States	11.0	16	30.7	7.1				
Albania Algeria Brazil	2.6 68.5	15 m	59.9 62.2	3.4 40.3				
Brazil	36.4	15	23.6	7.4				
B-S-J-G (China)	20.8	15	40.2	17.6				
Bulgaria	4.8	13	83.1	7.6				
CABA (Argentina)	19.1	a	32.2	0.0				
Colombia	42.6	15	49.9	13.6				
Costa Rica Croatia	31.4 1.6	15 14	47.8 95.4	21.4 11.7				
Dominican Republic	33.9	16	31.1	11.7				
FYROM	3.1	15	69.1	21.4				
Georgia	1.5	15	29.7	1.9				
Hong Kong (China)	17.2	15	93.7	15.9				
Indonesia	16.2	15	64.6	21.9				
Jordan Kosovo	7.6 3.8	16 m	27.7 77.8	31.9 11.2				
Lebanon	26.5	m	77.6	15.1				
Lithuania	2.5	16	27.1	14.5				
Macao (China)	33.8	15	79.3	12.5				
Malta	7.0	16	35.4	6.8				
Moldova	3.0	m	47.7	2.9				
Montenegro	1.6 25.6	15 16	60.0 21.2	34.2 7.5				
Peru Qatar	25.6 17.4	16	50.9	22.1				
Romania	5.9	14	53.0	18.7				
Russia	1.5	16	18.9	14.6				
Singapore	5.4	12	87.4	12.2				
Chinese Taipei	0.6	15	43.5	5.2				
Thailand	6.0	15 m	90.0	32.7				
Trinidad and Tobago Tunisia	33.4 34.3	m m	69.1 62.1	8.5 52.1				
United Arab Emirates	11.8	15	67.6	9.6				
Uruguay	35.3	15	26.4	6.7				
Viet Nam	7.2	15	80.2	17.8				

Source: OECD, PISA 2015 Database, Tables II.5.9, II.5.18, II.5.22 and II.5.27.



The later students are selected into different academic programmes/schools and the lower the percentage of students who had repeated a grade, the greater the equity in science performance, even after accounting for the school's mean score in science and the variation in student performance. Also, the higher the percentage of students enrolled in schools where the recommendations of feeder schools are considered for school admissions, the greater the equity in science performance. Other policies on selecting and grouping students, including grouping students between classes by ability, the percentage of students in vocational programmes, or the number of school types or education programmes, are not associated with equity in science performance.

This chapter concludes with a snapshot of selected stratification policies used by PISA-participating countries (Figure II.5.14).

Notes

- 1. Analysis based on the Herfindahl index. See Annex A3 for further clarification.
- 2. Other factors, for which PISA does not have detailed information, might be responsible for differences in the grade levels of 15-year-old students. These factors include special education (these students often follow a different timeframe for progression than average students) or different regulations about age at entrance across regions within countries.
- 3. Although the term "15-year-olds" is used to describe the students who sit the PISA test, in fact the students may be between 15 years and 3 months and 16 years and 2 months old at the time of assessment. The exact cut-off date for registering a child (in primary education) could therefore result in different grade levels for children within this one-year age range.
- 4. See Boxes II.2.1, II.2.2 and II.2.3 in Chapter 2 for a description of how PISA defines socio-economically disadvantaged and advantaged schools, public and private schools, and urban and rural schools.
- 5. Level 1 in the 1997 ISCED classification corresponds to primary education or the first stage of basic education. Usually, children begin this level of education between the ages of 5 and 7.
- 6. Level 0 in the 1997 ISCED classification corresponds to the initial stage of organised instruction, and is typically designed to introduce very young children to a school-like environment. This level of education is aimed at children from age 3 to the typical age at which they start primary education in each country/economy.
- 7. The results between primary and secondary education are not strictly comparable since students who sat the PISA test generally have a few more school years until they finish secondary education.
- 8. All the variables mentioned in this section have been included in the same regression model.
- 9. System-level data that are not derived from the PISA 2015 student or school questionnaire are extracted from the OECD's annual publication, *Education at a Glance*, for those countries and economies that participate in that periodic data collection. For other countries and economies, a special system-level data collection was conducted in collaboration with PISA Governing Board members and National Project Managers.



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Resources invested in education

This chapter examines the resources invested in education in PISA-participating countries and economies, how these resources have evolved over time, and how they are allocated across schools. The relationship between educational resources, including financial, material, human and time resources, and student performance is also analysed.

A note regarding Israel

The statistical data for Israel are supplied by and under the responsibility of the relevant Israeli authorities. The use of such data by the OECD is without prejudice to the status of the Golan Heights, East Jerusalem and Israeli settlements in the West Bank under the terms of international law.



Despite the widely accepted idea that more resources improve student performance, previous research on education has generally shown that, once an adequate level of resources is reached, additional resources may not necessarily contribute to better learning outcomes (Burtless, 1996; Nannyonjo, 2007; Nicoletti and Rabe, 2012; OECD, 2013, 2016a; Suryadarma, 2012; Wei, Clifton and Roberts, 2011). This implies that governments, schools and families should also focus on how educational resources are distributed and used, and which resources actually improve student learning, as well as on how much is spent on education.

Each additional dollar can only be spent once, so countries need to decide whether to invest in salary increases, more instruction time for students, more professional development for teachers, improved educational resources or school infrastructure. Equally important, countries need to decide how to distribute resources across schools, and how to align additional resources with socio-economic circumstances and other needs. Some research, for instance, suggests that increasing the educational resources available to disadvantaged students and schools offers good returns, both for student achievement (Bressoux, Kramarz and Prost, 2009; Lavy, 2012; Henry, Fortner and Thompson, 2010; Schanzenbach, 2007) and in redressing inequalities in education (Henry, Fortner and Thompson, 2010). PISA also shows that in high-performing education systems, resources tend to be allocated more equitably between socio-economically advantaged and disadvantaged schools (OECD, 2016a). PISA shows that countries differ widely in where they choose to invest their spending on education, so it is worth comparing policies and practices in this area.

This chapter analyses in detail how the resources invested in education are distributed across schools, and how they are related to student outcomes (Figure II.6.1). It starts by describing expenditure on education across education systems, how it has changed since previous PISA cycles, and its relationship with student performance. It then describes how this expenditure trickles down to the school system by focusing on the availability and quality of the material resources (educational material, computers and school size); human resources (teachers' salaries, initial training, qualifications and professional development; shortage of human resources; student-teacher ratios and class size); and time resources (actual teaching time, student learning time, homework assistance, extracurricular activities and attendance at pre-primary school). Given the correlational, not causal, nature of the analyses, the chapter only suggests avenues that policy makers may explore to allocate resources more fairly and efficiently.

What the data tell us

- Almost all school systems where schools principals in socio-economically disadvantaged schools are considerably
 more concerned than principals in advantaged schools about the material resources at their school score below
 the OECD average in science.
- Students in larger schools score higher in science and are more likely to expect to work in a science-related
 career in the future than students in smaller schools. But students in smaller schools reported a better disciplinary
 climate in their science lessons and they are less likely than students in larger schools to skip days of school
 and arrive late for school.
- On average across OECD countries, students in smaller classes reported more frequently than students in larger classes that their teachers adapt their instruction to their needs, knowledge and level of understanding.
- Students score five points higher in science for every additional hour spent per week in regular science lessons, after accounting for socio-economic status.
- School systems where students spend more time learning after school, by doing homework, receiving additional
 instruction or in private study, tend to perform less well in science.

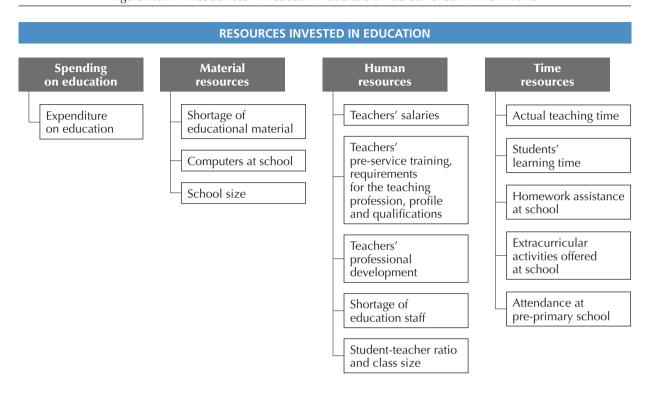
FINANCIAL RESOURCES

Policy makers must constantly balance expenditure on education with expenditure for many other public services, particularly in the face of fiscal constraints. Yet despite the competing demands for resources and the recent economic crisis, expenditure on education has increased over the past few years. Between 2005 and 2013, expenditure per primary, secondary and post-secondary non-tertiary student¹ increased by 6%, on average across OECD countries with data available for both 2005 and 2013 (OECD, 2016b).

Financial resources in education can be allocated to salaries paid to teachers, administrators and support staff; maintenance or construction costs of buildings and infrastructure; and operational costs, such as transportation and meals for students.



Figure II.6.1 ■ Resources invested in education as covered in PISA 2015



In 2013, the average cumulative expenditure by educational institutions per student between the ages of 6 and 15² exceeded USD 100 000 (PPP-corrected dollars) in Austria, Belgium, Denmark, Finland, Iceland, Luxembourg, Malta, Norway, Singapore, Sweden, Switzerland, the United Kingdom and the United States.³ In Luxembourg, cumulative expenditure per student exceeded USD 180 000. By contrast, in Colombia, the Dominican Republic, Georgia, Kazakhstan and Peru, cumulative expenditure per student over this age period totalled less than USD 25 000 (Table II.6.58).

As would be expected, spending on education and per capita GDP are highly correlated (r = 0.91 across OECD countries; the correlation is the same across all participating countries and economies in PISA 2015). School systems with greater total expenditure on education tend to be those with higher per capita GDP.

A first glance at PISA results gives the impression that students in high-income countries and economies – and countries/ economies that can and do spend more on education – perform better. High-income countries and economies (defined here as those with a per capita GDP above USD 20 000) have more resources to spend on education. These countries and economies cumulatively spend USD 87 261 on each student from age 6 to 15, on average, while countries that are not considered to be in that group spend USD 28 071, on average (Tables II.6.58 and II.6.59). Students in high-income countries and economies score 81 points higher in science, on average, than students in countries whose per capita GDP is below the USD 20 000 benchmark.

Yet the relationship among a country's/economy's income per capita, its level of expenditure on education per student, and its PISA score is far more complex (Baker, Goesling and LeTendre, 2002; OECD, 2012). Among the countries and economies whose cumulative expenditure per student is under USD 50 000 (the level of spending in 18 countries), higher expenditure on education is significantly associated with higher PISA science scores. But this is not the case among countries and economies whose cumulative expenditure is greater than USD 50 000, which include most OECD countries (Figure II.6.2). It seems that for this latter group of countries and economies, factors other than the level of investment in education are better predictors of student performance.

Among the former group of countries and economies, systems whose cumulative expenditure per student is USD 10 000 higher than other systems score an average of 26 points higher in the PISA science assessment. For example, Turkey, with a cumulative expenditure of USD 32 752, has an average PISA science score of 425 points – 22 points lower than that of Chile, whose cumulative expenditure per student is nearly USD 8 000 higher than that of Turkey.



However, among those countries and economies whose cumulative expenditure per student is more than USD 50 000, the relationship between spending per student and performance is no longer observed. Among these countries and economies, it is common to find some with substantially different levels of spending per student yet similar science scores. For example, Poland and Denmark score 501 and 502 points in science, respectively, but the cumulative expenditure per student in Denmark is more than 50% greater than that in Poland. Similarly, although countries and economies might have similar levels of expenditure on education, they can perform very differently. For example, while Iceland and Finland both spend roughly USD 100 000 per student from the age of 6 to 15, Iceland's science score in PISA 2015 is 473 points and Finland's score is 531 points (Figure II.6.2).

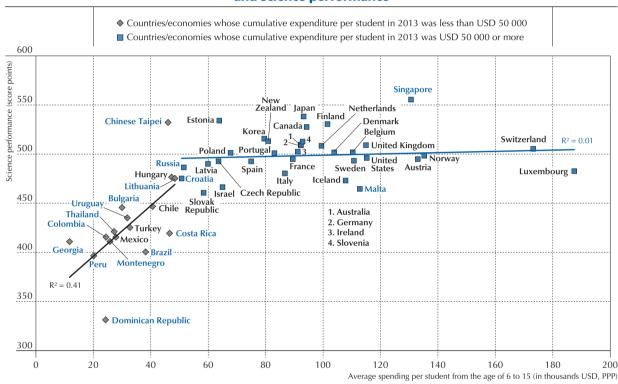


Figure II.6.2 • Spending per student from the age of 6 to 15 and science performance

Notes: Only countries and economies with available data are shown. A significant relationship (p < 0.10) is shown by the black line. A non-significant relationship (p > 0.10) is shown by the blue line. Source: OECD, PISA 2015 Database, Tables I.2.3 and II.6.58. StatLink ALDA http://dx.doi.org/10.1787/888933436215

Whatever the reason for the lack of a relationship between spending per student and learning outcomes, at least in the countries and economies with larger education budgets, excellence in education requires more than money. How resources are allocated is just as important as the amount of resources available to be allocated.

MATERIAL RESOURCES

While poor physical infrastructure and an inadequate supply of educational resources could have adverse effects on learning (Schneider, 2002; Uline and Tschannen-Moran, 2008), there is little evidence that these material resources – such as the quality of buildings, heating, lighting or IT equipment – has a strong impact on student outcomes (Cervini, 2009; Hanushek, 2003; OECD, 2015; Wei, Clifton and Roberts, 2011). What matters for student achievement and other education outcomes is not necessarily the amount of resources – at least once a minimum level has been reached – but the quality of those resources, how effectively they are used, and how equitably they are distributed across schools (Gamoran, Secada and Marrett, 2000; OECD, 2016a).



PISA 2015 asked school principals to report the extent to which their school's capacity to provide instruction was hindered ("not at all", "very little", "to some extent" or "a lot") by a shortage or inadequacy of physical infrastructure, such as school buildings, heating and cooling systems and instructional space; and educational material, such as textbooks, laboratory equipment, instructional materials and computers. The responses were combined to create an index of shortage of educational material. The average on the index is zero and the standard deviation is one across OECD countries. Positive values reflect principals' perceptions that the shortage of educational material hinders the capacity to provide instruction to a greater extent than the OECD average; negative values indicate that school principals believe the shortage hinders the capacity to provide instruction to a lesser extent.

On average across OECD countries, about one in three students attends a school whose principal reported that the lack or inadequacy of physical infrastructure does not hinder the capacity to provide instruction at all (Table II.6.1). A similar proportion attends a school whose principal reported that a shortage of educational material does not hinder instruction at all. In some countries and economies, physical infrastructure is a great concern for school principals. For example, in Albania, Colombia, Costa Rica, Croatia, Indonesia, Italy, Jordan, Trinidad and Tobago, and Tunisia, more than one in four students attend a school whose principal reported that a lack of physical infrastructure hinders the capacity to provide instruction a lot; in five of these countries, a similar proportion attends a school whose principal reported that inadequate or poor-quality physical infrastructure hinders the capacity to provide instruction a lot.

In other education systems, school principals are more concerned about the quality of the educational material at school. For instance, in Colombia, Costa Rica, Indonesia, Jordan, Kosovo, Peru and Tunisia, more than one in four students attend schools whose principal reported that a lack of educational material hinders the capacity to provide instruction a lot; in three of these seven countries, the same proportion attends schools whose principal reported that the inadequacy of educational material hinders the capacity to provide instruction a lot. These results should be interpreted with caution, however, since the benchmarks of what constitutes "lack" or "inadequacy" are likely to differ across and within countries.

In 29 PISA-participating education systems, the capacity to provide instruction in socio-economically disadvantaged schools is hindered by a lack or inadequacy of educational material and physical infrastructure to a greater extent than in advantaged schools, according to school principals, while the opposite is reported only in the Former Yugoslav Republic of Macedonia (hereafter "FYROM"), Iceland and Latvia (Figure II.6.3).⁴ On average across OECD countries, student learning in rural schools is also hindered to a greater extent than in urban schools by a lack or inadequacy of the material resources. In as many as 35 out of 57 education systems, the capacity of public schools to provide instruction is more likely to be hindered by a shortage of educational material than private schools. Only in Malta and Singapore do public schools enjoy more and better educational materials than private schools, according to principals' reports.

Not surprisingly, in about half of the education systems that participated in PISA 2015, students score lower in schools whose principals reported that the capacity to provide construction is hindered to a greater extent by a shortage of infrastructure and educational material (Figure II.6.3). However, after accounting for the socio-economic profile of students and schools, a shortage of educational material is negatively associated with performance in only 13 education systems.

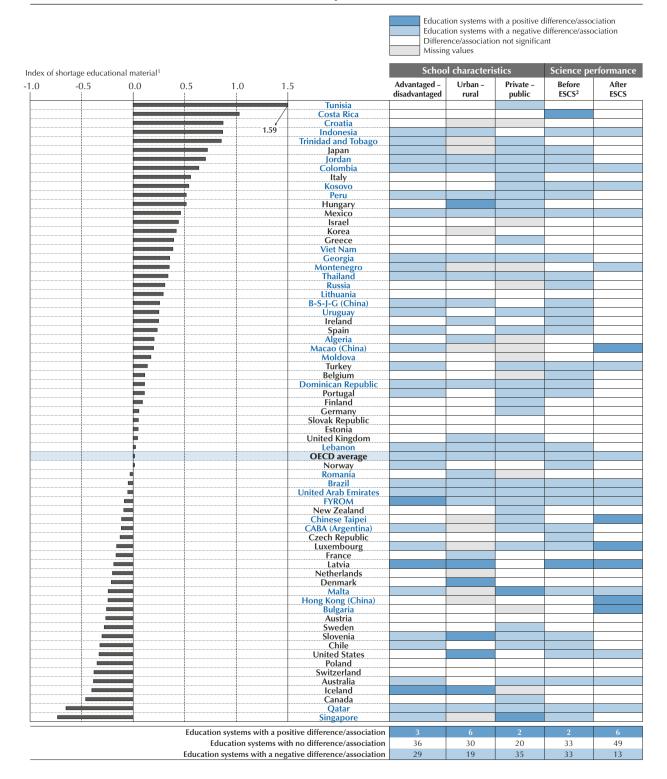
Equity in resource allocation

How equitably resources are allocated across schools determines whether or not all students are given equal opportunities to learn (Roemer, 1998). In this context, an equitable resource allocation would mean that the schools attended by socio-economically disadvantaged students are at least as well-equipped as the schools attended by advantaged students, to compensate for inequalities in the home environment. This is measured by the index of equity in resource allocation (material), which assesses the extent to which the socio-economic profile of a school is positively or negatively associated with the principal's concern about the lack or inadequacy of educational material at school.⁵ Positive values indicate that principals of disadvantaged schools reported less concern about the material resources at their schools than principals of advantaged schools.

Based on school principals' reports, only in Iceland, Latvia and Montenegro are principals of advantaged schools more likely to believe that learning is hindered by a lack of resources (Table II.6.3). Conversely, and as would be expected, in 26 countries and economies advantaged schools are better equipped than disadvantaged schools. In Brazil, Ciudad Autónoma de Buenos Aires (Argentina) (hereafter "CABA [Argentina]"), Lebanon, Macao (China), Mexico and Peru at least 15% of the difference in principals' concern about the lack or inadequacy of educational material is explained by the schools' socio-economic profile.



Figure II.6.3 • Index of shortage of educational material, school characteristics and science performance



^{1.} Higher values on the index indicate a greater shortage of educational material.

Note: See Annex A7 for instructions on how to interpret this figure.

Countries and economies are ranked in descending order of the index of shortage of educational material.

Source: OECD, PISA 2015 Database, Table II.6.2.

^{2.} ESCS refers to the PISA index of economic, social and cultural status.



In countries and economies where more resources are allocated to disadvantaged schools than advantaged schools, overall student performance in science is somewhat higher (Figure II.6.4). With the exception of CABA (Argentina) and Macao (China), all school systems where schools principals in disadvantaged schools are considerably more concerned about the material resources at their school than principals in advantaged schools – values below -10% in equity in resource allocation – score below 450 score points in science. Across OECD countries, 31% of the variation in science performance is explained by the degree of equity in the allocation of educational resources between advantaged and disadvantaged schools. Evidence from a previous PISA report suggests that low-performing students appear to benefit the most when more resources are allocated to disadvantaged schools than advantaged schools, but not at the expense of the highest-performing students in the education system (OECD, 2016a).

More concern about the lack or quality of educational material or quality of educational material in socio-economically disadvantaged schools in socio-economically advantaged schools 600 Singapore 550 Canada Japan 🔷 Macao (China) Chinese Taip Finland Hong Kong (China)
United Kingdom B-S-I-G (China) Australia 🔷 Portugal > Spain 🔷 **♦** Latvia Luxembourg ^{CO}no_{nies} ◆ CABA (Argentina) . Lithuania Hungary Iceland $R^2 = 0.10$ Slovak Republic 450 Greece Chile Israel Uruguay **Romania** Albania Trinidad and Tobago Turkey Moic. Γhailand Qatai Moldova ♠ Costa Rica A Austria **♦** Mexico Colombia 4 OECD Georgia Montenegro Belgium 400 Czech Republic Denmark Tunisia Peru **FYROM** France Kosovo 🔷 Lebanon Germany Algeria United Arab Ireland 350 Netherlands New Zealand Norway Dominican Republic Slovenia Sweden Switzerland 300 **United States** -30 -20 -10 0 20 -50 10 Equity in resource allocation (material) (%)

Figure II.6.4 ■ Equity in resource allocation and science performance

Note: Equity in resource allocation is the percentage of variance of the principal's concern about the educational material at the school explained by the school's socio-economic profile. A negative sign indicates that principals of socio-economically disadvantaged schools are more concerned about the educational material at the school than principals of advantaged schools.

Source: OECD, PISA 2015 Database, Tables I.2.3 and II.6.3.

StatLink http://dx.doi.org/10.1787/888933436236

Computers at school

Introducing computers into the classroom can be justified on several grounds, including preparing students to become full participants in today's digital public space, equipping them with the digital skills needed for the labour market, and allowing teachers to explore new teaching tools (OECD, 2015). It is therefore hardly surprising that governments have invested substantial resources on computers, Internet connections, software, and information and communications technology (ICT) more generally. But this investment has not always produced obvious gains in student learning. As the PISA report, *Students, Computers and Learning: Making the Connection* (OECD, 2015) concludes: in general, schools and education systems have not been effective in leveraging the potential of technology.



PISA 2015 asked school principals to report the number of computers available to students in the school for educational purposes, and how many of these are connected to the Internet. Across OECD countries, there is 0.77 computer per student in school, 96% of which are connected to the Internet (Table II.6.4). There are large differences in the computer-student ratio across education systems. In Australia, Austria, Canada, the Czech Republic, Iceland, Macao (China), New Zealand, the United Kingdom and the United States, there is at least one computer available per student, and at least 95% of the computers are connected to the Internet. By contrast, in Albania, Algeria, Indonesia, Kosovo and Tunisia, there is less than one computer per every five students, and less than 70% of the computers are connected to the Internet.

On average across OECD countries, there are more computers per student available for educational purposes in socioeconomically disadvantaged schools than in advantaged schools, and more in rural than in urban schools (Table II.6.5). Education systems may be compensating for the fact that disadvantaged students and students living in rural areas often have limited access to computers and the Internet at home (OECD, 2015). However, the percentage of computers connected to the Internet in socio-economically disadvantaged schools is lower than in advantaged schools, and is also lower in rural than in urban schools (Table II.6.6). There are considerably more education systems (26) where school computers in private schools are more frequently connected to the Internet than those in public schools, than there are education systems (3) where computers in public schools are more frequently connected to the Internet.

Across OECD countries, the more computers available for educational purposes per student, the lower students score in science, but only before accounting for the socio-economic profile of students and schools (Table II.6.5). There is a similar number of PISA-participating countries and economies where the relationship is positive (7) as education systems where it is negative (11), after accounting for the socio-economic profile of students and schools.

School size

Smaller schools may allow for greater interactions among school staff, parents and students, and also among students of different ages. Smaller learning communities may also foster a greater sense of belonging. However, through economies of scale, larger schools may be in a better position to offer more optional courses and a broader range of activities. Also, the greater diversity of students often found in larger schools means that students may find it easier to meet other students with similar interests and preferences. But evidence on the effects of school size on student outcomes is mixed (see Box II.6.1).

Box II.6.1. School size, efficiency and effectiveness

The relationship between school size, educational effectiveness and economic efficiency has been a subject of long-standing debate among policy makers and researchers. Populations of school-age children have shrunk in many OECD countries, while in others, enrolments in urban schools have swelled alongside internal migration to cities. Both situations have raised concerns about the quality and cost of small schools, particularly in rural areas. Rather than identifying an "optimal size", empirical studies indicate that the effect of school size varies across student groups and levels of education.

Student achievement

The relationship between school size and student achievement remains empirically contested, with studies finding both positive and negative relationships and varying effects, depending on students' socio-economic status and grade level (Slate and Jones, 2005). In general, secondary school students tend to benefit more from larger schools than primary school pupils, and low-income and minority students appear to perform better in smaller schools (Howley and Howley, 2004). Some studies also find evidence of diminishing returns to scale, suggesting that student performance improves up to a certain school size (which tends to be smaller in primary education than in secondary education) and declines thereafter.

Efficiency

Larger schools benefit from economies of scale, which allow them to reduce their capital, operating and administrative expenses, although schools above a certain size may be confronted with diminishing or even negative returns to expansion (Andrews et al., 2002). Many countries offset the higher cost of maintaining small schools by providing them with additional funding or promoting consolidation programmes to reduce the fiscal burden of a fragmented school network.



Educational offerings and teachers' working conditions

Small schools may struggle to provide a broad curriculum, organise students into learning groups, offer single-grade teaching and use ability streaming. Early studies on school size found that larger schools attract more qualified teachers, provide better facilities and offer more diverse extracurricular activities. However, recent studies have also found that students and teachers in smaller schools form closer ties, which can lead to improved attendance and retention rates, fewer disciplinary problems and a stronger sense of belonging. Advantages may also include more interaction with parents and higher rates of participation in extracurricular activities, particularly among disadvantaged students (Leithwood and Jantzi, 2009).

The size of a school also affects the work of teachers. Instructing multiple grade levels at once poses a challenge to staff members who are often not adequately trained for the task and lack appropriate teaching material. Teachers in larger schools also tend to benefit from a lighter administrative burden and more opportunities for professional development and peer learning.

Policy considerations

OECD countries have adopted different policy strategies related to small schools. Canada, Korea and Portugal underwent periods of extensive consolidation over the past decades, and Estonia provides municipalities with incentives to reorganise their school networks to make them more efficient (Santiago et al., 2016). Although school consolidation can increase efficiency and education quality in some contexts, its feasibility depends on a range of factors, including geographic context. In remote and sparsely populated areas, school closures are likely to impose additional transportation costs on parents, schools and school districts, which may outweigh the benefits of economies of scale (Andrews et al., 2002). Any improvements in quality and financial savings from closures need to be considered alongside equity concerns, broader regional development objectives and the social significance of schools for local communities.

Where consolidation is not feasible, creating school clusters or multifunctional centres, such as those piloted in Lithuania (Shewbridge et al., 2016), can enable small schools to pool resources, offer more specialised classes, and create a wider professional community for teachers and principals. The use of information and communications technology can also be a useful tool to overcome some of the disadvantages students and teachers face in small or isolated schools (Hobbs, 2004). In cases where consolidation was not an option, many countries responded to the higher cost of delivering quality education in small and rural schools by providing them with targeted investment and support.

For further reading, see Ares Abalde, M. (2014), "School Size Policies: A Literature Review", *OECD Education Working Papers*, No. 106, OECD Publishing, Paris, http://dx.doi.org/10.1787/5jxt472ddkjl-en.

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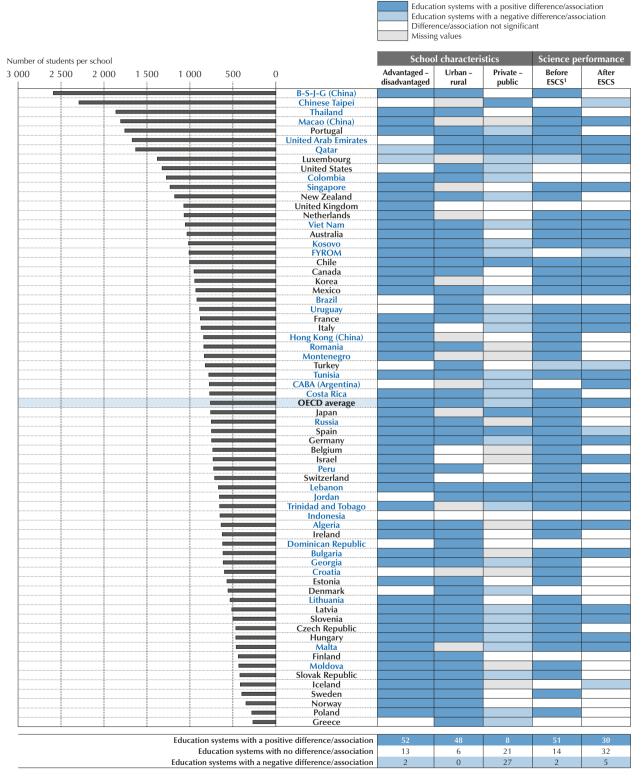
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Shewbridge, C. et al. (2016), OECD *Reviews of School Resources: Lithuania 2016*, OECD Reviews of School Resources, OECD Publishing, Paris, http://dx.doi.org/10.1787/9789264252547-en.

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Figure II.6.5 • Number of students per school, school characteristics and science performance



^{1.} ESCS refers to the PISA index of economic, social and cultural status.

Countries and economies are ranked in descending order of the average number of students per school.

Source: OECD, PISA 2015 Database, Table II.6.7.



Across OECD countries, the average 15-year-old student attends a school with 762 students (Figure II.6.5). The size of schools ranges from more than 2 000 students in Beijing-Shanghai-Jiangsu-Guangdong (China) (hereafter "B-S-J-G [China]") and Chinese Taipei, to fewer than 400 in Albania, Greece, Norway, Poland and Sweden. In about three out of four education systems, significantly fewer students attend socio-economically disadvantaged schools than advantaged schools. In Thailand, for example, there are 737 students per disadvantaged school compared with 2 956 students per advantaged school, on average. Not surprisingly, the largest differences in school size are observed between rural and urban schools. In almost all education systems, fewer students attend rural schools than urban schools. For example, on average across OECD countries, there is a difference of 501 students between the two types of schools, and in B-S-J-G (China), Thailand and the United Arab Emirates, there is a difference of at least 1 500 students between rural and urban schools. On average across OECD countries and in 27 out of 56 education systems, public schools are larger than private schools. As expected, upper secondary schools are larger than lower secondary schools (Table II.6.7). On average across OECD countries, lower secondary students attend school with 667 other students, while upper secondary students attend school with 920 other students.

In almost all education systems, students in larger schools score higher in science (Figure II.6.5). Even after accounting for the socio-economic profile of students and schools, there are still more education systems (30) where the relationship is positive than education systems (5) where it is negative.

On average across OECD countries, larger schools are better equipped (although the difference disappears once the socio-economic profile of students and schools, the level of education and science performance are accounted for), but smaller schools are better staffed, according to school principals (Table II.6.8). Students in larger schools are more likely to expect to work in a science-related career in the future, even after accounting for socio-economic status, level of education and science performance. Conversely, in smaller schools, students reported a better disciplinary climate in their science lessons, and they are less likely to skip days of school and arrive late for school than students in larger schools, after accounting for socio-economic status, level of education and science performance. Based on these correlational data, there are advantages and disadvantages associated with both small and large schools.

HUMAN RESOURCES

Teachers are an essential resource for learning; but not every teacher attribute is related to student outcomes in the same way. Previous studies have shown, for instance, that teachers' knowledge of the subject they teach and the quality of their instruction have a measureable impact on student performance – stronger than their level of education, experience, qualifications, work status or salaries (Allison-Jones and Hirt, 2004; Hanushek and Rivkin, 2006; Hanushek, Piopiunik and Wiederhold, 2014; Lockheed and Komenan, 1988; Metzler and Woessmann, 2012; Palardy and Rumberger, 2008). The type and quality of the training teachers receive, and the requirements to enter and progress through the teaching profession, shape the quality of the teaching force. Attracting, developing and retaining effective teachers are priorities for public policy (Mourshed and Barber, 2007).

Teachers' salaries

Teachers' salaries represent the largest single share of expenditure on education (OECD, 2016b). School systems differ not only in how much they pay teachers, but in the structure of their pay scales. On average, the salaries of teachers⁶ with minimum training and 15 years of experience in OECD countries exceed the per capita GDP in their country by 10% for lower secondary teachers and by 16% for upper secondary teachers.

Relative to their country's national income, lower and upper secondary teachers in Colombia, the Dominican Republic, Germany, Hong Kong (China), Mexico, Qatar, Turkey and the United Arab Emirates earn the most. In these countries/ economies, annual earnings of lower secondary teachers with minimum training and 15 years of experience range between 152% and 217% of per capita GDP, while annual earnings of upper secondary teachers with the same qualifications range between 152% and 256% of per capita GDP. By contrast, in the Czech Republic, FYROM, Kazakhstan, Lithuania and the Slovak Republic, annual earnings for lower and upper secondary teachers are less than 60% of per capita GDP (Table II.6.54).

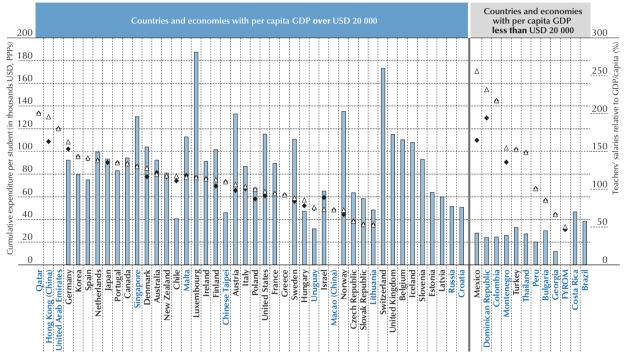
In all school systems, teachers' salaries rise during the course of a career, although the rate of change differs greatly (the initial salaries of teachers also vary widely between countries). In Korea, Peru, Qatar and Singapore, salaries of teachers with minimum training⁷ at the top of the pay scale are at least 2.5 times higher than starting salaries of teachers with similar training, and it takes between 20 and 37 years to reach the top salary. The ratio of teachers' salaries at the top of the scale to starting salaries is particularly high (at least 2.8 times) in two countries, Korea and Singapore, for both



lower and upper secondary teachers. By contrast, in the Czech Republic, Denmark, the Dominican Republic, Georgia, Kazakhstan, Lithuania, Montenegro, Norway and Turkey, the salaries of teachers with minimum training at the top of the scale are 1.3 times higher, at most, than starting salaries of teachers with the same training (Table II.6.54).

Figure II.6.6 • Expenditure on education and teachers' salaries

- Cumulative expenditure by educational institutions per student aged 6 to 15
- ◆ Lower secondary teachers' salaries (after 15 years of experience/minimum training), relative to per capita GDP
- Δ Upper secondary teachers' salaries (after 15 years of experience/minimum training), relative to per capita GDP



Notes: Only countries and economies with available data are shown.

The reference year for the per capita GDP is 2013, except for the following countries: Bulgaria (2012), Canada (2012), Croatia (2015), Macao (China) (2014), Peru (2014) and Uruguay (2014).

Countries and economies are ranked in descending order of upper secondary teachers' salaries.

Source: OECD, PISA 2015 Database, Tables II.6.54, II.6.58 and II.6.59.

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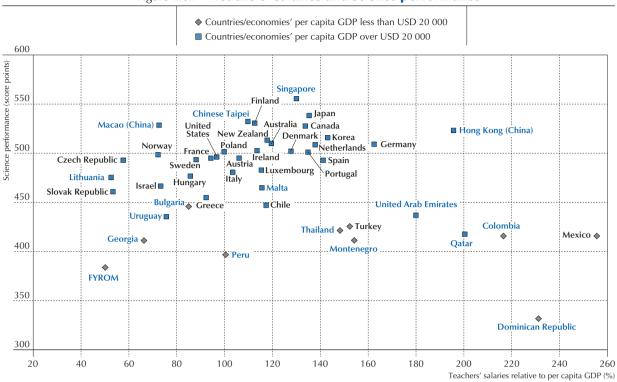
Higher salaries can help school systems attract the best candidates to the teaching profession, and signal that teachers are regarded and treated as professionals. But paying teachers well is only part of the equation. The relationship between science performance and teachers' salaries relative to per capita national income was found not to be statistically significant across PISA participating countries and economies (Figure II.6.7). This finding suggests that other factors, such as the quality of teaching, may be more closely associated with students' performance at the system level. Intervening factors, such as the different criteria used by school systems for identifying and compensating their best teachers and the level of teachers' pay in relation to the system's resources, may also be at play here. For example, if countries do not have enough resources to invest in education, paying relatively high salaries might attract good teachers, but it also might limit the number of teachers the system can afford, thus contributing to shortages of teaching staff.

Pre-service teacher training

System-level data show that competitive examinations are required to enter pre-service teacher training in 20 out of 41 education systems for primary education and in 19 out of 39 systems for secondary education (Table II.6.56). In some countries, even though competitive examinations are not required for pre-service teacher training, a leaving certificate or the results of exams taken by all students at the end of secondary education are used for admission into teacher education programmes. Pre-service teacher training is longest in Germany and Luxembourg, where such training for lower and upper secondary teachers lasts 6 to 7 years.







Notes: Teachers' salaries refer to the salaries of upper secondary teachers with typical qualifications in the respective countries and economies after 15 years of experience.

Only countries and economies with available data are shown.

The reference year for the per capita GDP is 2013, except for the following countries: Bulgaria (2012), Canada (2012), Croatia (2015), Macao (China) (2014), Peru (2014) and Uruguay (2014).

Source: OECD, PISA 2015 Database, Tables I.2.3, II.6.54 and II.6.59.

StatLink http://dx.doi.org/10.1787/888933436260

Figure II.6.8 • Selected pre-service training requirements for lower secondary teachers in public institutions

	No examination to enter pre-service training	Competitive examination to enter pre-service training
Relatively short duration of pre-service	Argentina	Brazil
training programme	Australia	Bulgaria
less than 4.5 years)	Denmark	Georgia
	Dominican Republic	Greece
	England (UK)	Israel
	FYROM	Kazakhstan
	Malta	Korea
	Montenegro	Lithuania
	Norway	Macao (China)
	Singapore	Russia
	Uruguay	Chinese Taipei
		Turkey
Relatively long duration of pre-service	Estonia	Croatia
training programme	Hungary	Czech Republic
(more than 4.5 years)	Ireland	Finland
	Slovak Republic	Hong Kong (China)
	Slovenia	Portugal
	Spain	Peru
	Sweden	

Source: OECD, PISA 2015 Database, Table II.6.56.



Pre-service training for primary school teachers is the shortest (three years) in Austria, Belgium (Flemish and French Communities), Bulgaria, Portugal and Switzerland (Table II.6.56). For lower secondary teachers, pre-service training is shortest (three years) in Belgium (Flemish and French Communities) and Bulgaria. For upper secondary teachers, pre-service training lasts between 4 and 5 years in most education systems. In a few countries/economies, candidates whose bachelor's degree is not specific to education can complete a postgraduate diploma in education in one year. This is the case in Hong Kong (China) and Singapore, for example, for teachers at primary, lower and upper secondary levels.

Countries and economies with available data can be categorised into four groups, according to whether their preservice training system for teachers in public schools requires a competitive examination and by the duration of the training programme for teaching at the lower secondary level, as shown in Figure II.6.8 (only countries with available data for both categories are presented). Competitive examinations may be required for a variety of reasons in any given country. For example, they may be required only for certain fields of education or when the number of candidates exceeds the capacity of a programme. Alternatively, some countries may provide career counselling to students rather than use examinations.

A teaching practicum is required as part of pre-service training for primary teachers in all 54 countries and economies with available data except Chile, Croatia, France, Georgia, Macao (China) and the United States. In these countries, the requirement for teaching practicum is at the discretion of the teacher-education institutions. In Macao (China), even though these institutions have discretion over the offer of such practicums, they do so in response to teachers' certification requirements in the country. A teaching practicum is also required as part of pre-service training for lower and upper secondary teachers in all 54 countries with available data except Chile, Croatia, the Czech Republic, France, Georgia, Macao (China), Mexico and the United States. In these countries, with the exception of Mexico, decisions regarding such requirements are made by the teacher-education institutions. In the United States, decisions regarding requirements for pre-service training and for entrance into the profession (e.g. competitive examinations, teaching practicums, credentials/licenses) are made at the state level. In Mexico, while a teaching practicum is mandatory at the lower secondary level, it is left to the discretion of the students enrolled in pre-service training programmes at the upper secondary level.

Requirements to enter the teaching profession

System-level data show that a competitive examination is required to enter the teaching profession for both primary and secondary teachers in 15 countries (Table II.6.57). In Luxembourg and Uruguay, a competitive examination to enter the profession is required exclusively for primary school teachers.

A credential or license, in addition to the education diploma, is required to start teaching or to become a fully qualified lower or upper secondary teacher in Australia, Austria, Croatia, England, FYROM, Georgia, Greece, Ireland, Israel, Japan, Malta, Montenegro, Scotland, Slovenia, Sweden, Chinese Taipei and Thailand.

Professional development is compulsory for remaining employed as a lower or upper secondary teacher in the teaching profession in 25 of the 53 countries for which information was available (although in Iceland, it is only a requirement at the lower secondary level). Professional development is a compulsory requirement for promotion or salary increases in 16 of 53 countries (although in Mexico, it is only a requirement at the lower secondary level).

Teacher profile and qualifications

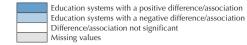
PISA 2015 asked school principals to report on the composition and qualifications of the teachers in their schools; more specifically, they were asked how many teachers work full time or part time and how many are fully certified by an appropriate authority. In most OECD countries, teachers are required to have been certified by an authority; however, many teachers who have earned a university degree do not always need a specific or additional licence to teach.

According to school principals, most of the teachers in their schools are full-time teachers and have some form of certification. Across OECD countries, the average student attends a school where 79% of teachers work full time and 84% have been fully certified (Table II.6.9).

Practices differ across education systems in how much schools rely on part-time teachers. On average across OECD countries, a student attends a school where 21% of teachers work part time. However, students in CABA (Argentina), Mexico, the Netherlands, Switzerland and Uruguay attend schools where more than half of the teachers work part time, while in B-S-J-G (China), Bulgaria, Colombia, Hong Kong (China), Macao (China), Qatar, Trinidad and Tobago, the United Arab Emirates and the United States, less than 4% of teachers work part time (Table II.6.9).



Figure II.6.9 • Percentage of fully certified teachers, school characteristics and science performance



rcentage of fully ce		ied teachers				School characteristics		stics	Science performance	
	80	60	40	20	0	Advantaged – disadvantaged	Urban - Private - rural public		Before ESCS ¹	After ESCS
					Macao (China)	J				
					Lithuania					
					Montenegro					
	-				B-S-J-G (China) Ireland					
		······		······	Slovenia					
					Japan					
					Bulgaria					
					Romania					
				······································	Korea Australia					
					Poland					
					Croatia					
					Thailand					
					Canada					
					Hong Kong (China) Czech Republic					
					Finland					
					Slovak Republic					
					United Kingdom					
	+				Turkev					
					United States Portugal					
					Chinese Taipei					
					New Zealand					
					Singapore					
					Estonia					
!		······			Russia				_	
					Spain Germany					
					Costa Rica					
					Italy					
					Malta					
					Brazil					
	-				Greece Peru					
					CABA (Argentina)					
					Iceland					
					Sweden					
		<u> </u>			Viet Nam					
		<u> </u>		i i	Belgium					
					OECD average Austria					
		······································			Norway					
					Algeria					
					Tunisia					
					Netherlands					
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					FYROM					
					Qatar					
					Jordan					
					Israel					
					Luxembourg					
					Moldova Kosovo					
					Lebanon					
					Latvia Latvia					
	1				Indonesia					
					Uruguay					
		-			Trinidad and Tobago					
					United Arab Emirates Mexico					
					Georgia					
				+	Chile					
					Colombia					
			Educat	ion systems with	a positive difference/association	15	10	9	17	9
					a positive difference/association is with no difference/association		33	27	39	48
					dinici circe, association			1		10

1. ESCS refers to the PISA index of economic, social and cultural status.

Note: In Chile the question about the certification of teachers was adapted as "authorised or enabled by the Ministry of Education". Countries and economies are ranked in descending order of the percentage of fully certified teachers.

Source: OECD, PISA 2015 Database, Table II.6.12.



School systems also differ in whether or not they require teachers to be certified by an appropriate authority. For example, in Chile, Colombia, Georgia, Mexico and the United Arab Emirates, fewer than one in two teachers is fully certified by an appropriate authority, while in 26 out of 67 countries/economies, more than 90% of teachers at an average school are fully certified (Table II.6.9).⁸

In most PISA-participating countries and economies, the percentage of fully certified teachers is similar across advantaged and disadvantaged schools, rural and urban schools, and public and private schools (Table II.6.12 and Figure II.6.9). On average across OECD countries and in 15 countries/economies, particularly France, Georgia, Indonesia, and Trinidad and Tobago, advantaged schools have larger proportions of fully certified teachers than disadvantaged schools, while the reverse is true in 10 education systems, particularly in Algeria and Mexico. In 18 out of 54 countries/economies and on average across OECD countries, public schools have larger proportions of fully certified teachers than private schools. This difference is particularly striking in FYROM and Turkey, where the proportion of fully certified teachers in public schools is more than 50 percentage points larger than that in private schools.

The percentage of full-time teachers is notably higher in disadvantaged schools than in advantaged schools in 22 countries/economies and on average across OECD countries (Table II.6.13). In Luxembourg, Mexico, the Netherlands and Uruguay, the proportion of full-time teachers is at least 15 percentage points larger in disadvantaged schools. In 18 out of 57 countries/economies, full-time teachers are more frequently found in urban schools than in rural schools, while the opposite is observed in 7 countries/economies; there is no significant difference on average across OECD countries. In 32 out of 59 countries/economies and on average across OECD countries, there are more full-time teachers in public schools than in private schools. The most striking case is Tunisia, where virtually all teachers in public schools work full time but only 19% of teachers in the private schools attended by 15-year-old students work full time. In Italy and Poland, the difference in the proportion of full-time teachers between public and private schools is also larger than 30 percentage points.

On average across OECD countries, the proportion of teachers who have been certified to teach is positively, even if modestly, associated with student performance, before and after accounting for the socio-economic profile of students and schools (Figure II.6.9). Across OECD countries, for every ten percentage-point increase in the proportion of fully certified teachers, students score about one point higher in science after accounting for students' and schools' socio-economic profile (Table II.6.12). After accounting for the socio-economic profile of students and schools, there is almost the same number of countries where the proportion of fully certified teachers and science performance are positively associated as where they are negatively associated.

On average across OECD countries, the percentage of teachers working part-time or full-time is not associated with science performance, after accounting for socio-economic status. The proportion of full-time teachers is positively associated with students' science performance only in Bulgaria, Colombia, Japan, Malta, Peru, Chinese Taipei, and Trinidad and Tobago; in Luxembourg, Qatar and Switzerland, the association is negative.

Teachers' professional development

Supporting teachers' participation in professional development activities is one way that schools can strengthen teachers' knowledge base for teaching, one of the three pillars of teacher professionalism, together with teachers' professional autonomy and teachers' participation in peer networks (OECD, 2016c). Just as practitioners in any other profession, teachers need to keep up-to-date with advances in their field. They are often expected to learn about new ways of teaching, discoveries in their field of expertise, new theories about how children learn, curricular changes or innovative tools for the classroom. Professional development for teachers has been shown to be successful in changing the way teachers learn, work and feel about their job, including their self-efficacy and job satisfaction (Desimone et al., 2002; OECD, 2016c), but less so in improving student learning (Hattie, 2009). There is also evidence that the type and quality of professional development activities are critical. Some (Wade, 1985; Timperley, 2008), for instance, report that professional development activities for teachers have a greater impact when teachers are encouraged by their school principal to participate, when the programmes are initiated or funded by education authorities and involve external experts, and when the training is practical rather than theoretical.

PISA asked school principals to report the percentage of all teaching staff and science teaching staff in their school who had attended a programme of professional development in the three months prior to the PISA test. A programme of professional development is defined by PISA as a formal programme of at least one day that is designed to enhance teachers teaching skills or pedagogical practices. Across OECD countries, the average 15-year-old student attends a school whose principal



reported that half of the teaching staff – of all subjects combined – had attended a programme of professional development in the previous three months (Table II.6.17). The proportion is particularly large in English-speaking countries, such as Australia, New Zealand, Singapore, the United Kingdom and the United States, where at least three out of four teachers had attended such a programme in the three months prior to the PISA assessment. By contrast, in FYROM, Georgia, Norway and Turkey, less than one in four teachers had attended a professional development programme in the previous three months. Across OECD countries, the proportion of science teachers who had attended a professional development programme in the previous three months was almost identical to that of all teachers.

Only in a few education systems are there differences across different types of schools in teachers' and science teachers' participation in professional development activities (Figure II.6.10 and Table II.6.18). In 15 education systems, science teachers in advantaged schools participate more than science teachers in disadvantaged schools; in 4 other school systems, the opposite is true. And there are somewhat more education systems where teachers in urban schools participate more in professional development activities than school systems where teachers in rural schools participate more in these activities. Across OECD countries, there are no significant differences between these categories of schools.

The association between teachers' participation in professional development activities and students' performance in science is weak across most PISA-participating countries and economies, regardless of whether the participation of all teachers or only of science teachers is considered (Figure II.6.10 and Table II.6.18). After accounting for the socioeconomic profile of students and schools, in eight education systems, students score higher in science when more of their science teachers had participated in professional development activities; in seven other systems, students score lower in science when their science teachers had participated in such activities.

PISA also asked school principals whether their school offers a series of in-house professional development activities. Across OECD countries, almost all 15-year-old students are enrolled in schools where teachers co-operate by exchanging ideas or material when teaching specific units or series of lessons (96% of students), and a great majority attends schools that invite specialists to conduct in-service training for teachers (80%), organise in-service workshops that address specific issues facing the school (80%) or organise in-service workshops for specific groups of teachers (69%) (Figure II.6.11). According to school principals, professional co-operation among teachers occurs less frequently in Japan and Tunisia, where only around 70% of students attend schools where this occurs compared to at least 89% in every other country/economy. By contrast, activities involving external experts are less common in Algeria, Georgia, Kosovo, Moldova, Tunisia and Viet Nam: less than 50% of students attend schools where these activities are offered.

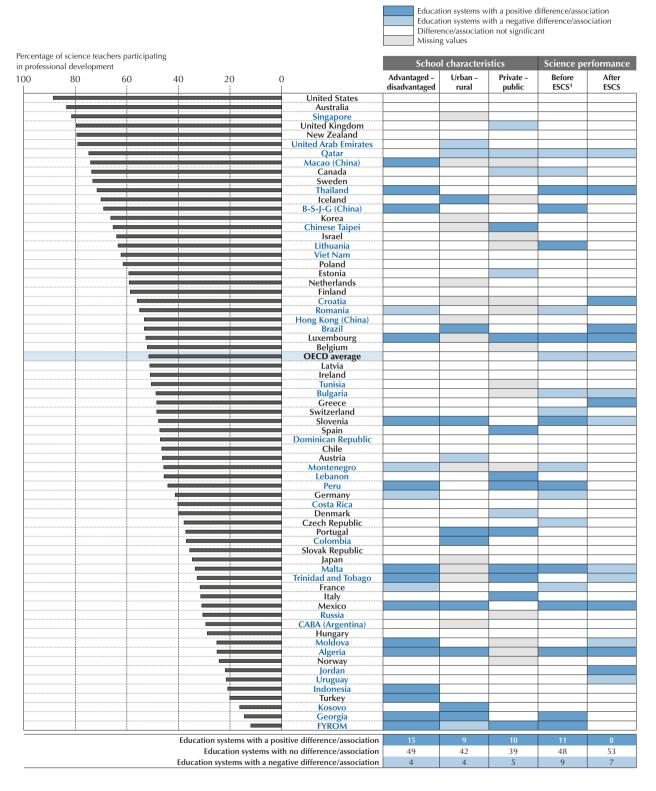
Across OECD countries, inviting specialists to conduct in-service training and organising in-service workshops (whether for specific groups of teachers or for specific issues faced by the school) are more frequently offered in advantaged than in disadvantaged schools, in urban than in rural schools, and in private than in public schools (Tables II.6.22, II.6.23 and II.6.24). There is no significant OECD-wide difference between different types of schools in how often co-operation among teachers takes place, except between private and public schools: co-operation among teachers is somewhat more common in private schools (Table II.6.21). For instance, in 24 out of 60 education systems, private schools engage external specialists more frequently than public schools do, while in 4 systems, the opposite is true. In 19 education systems, teachers in private schools collaborate more frequently by exchanging ideas or material than teachers in public schools do, while only in the Netherlands do public school teachers collaborate more than private school teachers.

On average across OECD countries, three out of the four in-house professional development activities are positively related to student performance in science, before accounting for the socio-economic profile of students and schools; only professional collaboration among teachers in the school is positively associated with student performance in science, after accounting for the socio-economic profile of students and schools. When school principals reported that teachers co-operate by exchanging ideas or material, the average 15-year-old student in OECD countries scores 9 points higher in science; in Slovenia, the average student scores 36 points higher. According to the report, *Supporting Teacher Professionalism* (OECD 2016c), a collaborative culture also shows one of the strongest associations with teachers' self-efficacy and job satisfaction.

On average across OECD countries, the percentage of teachers participating in professional development activities is higher when the school organises these kinds of activities directly, including inviting specialists or organising in-service workshops dealing with specific issues or for specific groups of teachers (Table II.6.25).



Figure II.6.10 • Science teachers' participation in professional development activities, school characteristics and science performance



 $^{1. \} ESCS \ refers \ to \ the \ PISA \ index \ of \ economic, \ social \ and \ cultural \ status.$

Countries and economies are ranked in descending order of the percentage of science teachers participating in professional development. Source: OECD, PISA 2015 Database, Table II.6.19.



Figure II.6.11 ■ In-house professional development activities

Results based on school principals' reports

Less than half of students From 50% to 75% of students More than 75% of students

Indied Kingdom 100		More than 75% of students						
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Countries and economies are ranked in descending order of the percentage of students in schools offering in-house professional development (average of four activities).

Source: OECD, PISA 2015 Database, Table II.6.20.

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Shortage of education staff

The lack or quality of the human resources in schools can also be measured by asking principals if the lack or quality of teaching and assisting staff hinders the capacity to provide instruction in the school. Principals' responses were combined to create an index of shortage of education staff. The average on the index is zero and the standard deviation is one across OECD countries. Positive values reflect principals' perceptions that a shortage of education staff hinders the capacity to provide instruction to a greater extent than the OECD average; negative values indicate that school principals believe a shortage hinders the capacity to provide instruction to a lesser extent.

On average across OECD countries, 39% of students attend schools whose principal reported that a lack of teaching staff does not hinder the capacity to provide instruction at all; only 4% of students are in schools whose principal reported that a lack of teaching staff hinders the capacity to provide instruction a lot (Table II.6.14). A similar proportion of principals reported that the capacity to provide instruction is hindered by an inadequate or poor teaching staff. However, in a number of countries, including Germany, Greece, Ireland, Korea, Luxembourg, Spain and Thailand, school principals appear to be more concerned about the lack of teaching staff than about the quality of the staff. Across OECD countries, one in ten students attends a school whose principal reported that the capacity to provide instruction is hindered a lot by the lack of assisting staff. In Colombia, Greece, Hungary, Korea and Spain, principals were considerably more concerned about the lack of assisting staff than about the quality of the assisting staff. Some of these countries have faced severe budgetary constraints in recent years.

In 34 out of 68 education systems, advantaged schools are better staffed than disadvantaged schools, according to school principals, while the opposite was reported only in FYROM (Figure II.6.12 and Table II.6.15). On average across OECD countries, public schools are more hindered by a lack of and a lower quality of education staff than private schools. In 35 countries and economies, student learning is more likely to be hindered by a shortage of or the inadequacy and poor quality of education staff in public schools. Only in France is the capacity to provide instruction in public schools less hindered by an inadequacy or poor quality of education staff than in private schools, according to school principals.

In about half of the education systems that participated in PISA 2015, students score lower in schools whose principal reported that the capacity to provide instruction is hindered to a great extent by a shortage of education staff (Figure II.6.12). After accounting for the socio-economic profile of students and schools, in only eight education systems is a shortage of education staff still negatively associated with science performance, presumably because of the strong association between a lack or inadequacy of teaching staff and schools' socio-economic disadvantage mentioned above.

Equity in resource allocation can also be measured by how concerned principals are about the human resources at their schools. An equitable allocation of human resources would imply that the schools attended by socio-economically disadvantaged students are at least as well-staffed as the schools attended by advantaged students, to compensate for the inequalities in the home environment. This is measured by the index of equity in resource allocation (staff), which measures the extent to which the socio-economic profile of schools is positively or negatively associated with principals' concern about the lack or inadequacy of human resources at school. Positive values indicate that principals in disadvantaged schools reported less concern about the human resources at their schools than principals in advantaged schools. In FYROM, school principals in disadvantaged schools are less concerned than principals in advantaged schools about the human resources at their schools – the only country where this is observed. In Australia, CABA (Argentina), Peru, Spain and 18 other education systems, principals in disadvantaged schools are more concerned (Table II.6.16).

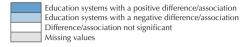
In some education systems, human resources are better distributed between advantaged and disadvantaged schools than material resources, according to school principals. In CABA (Argentina), Lebanon, Macao (China), Mexico and Thailand, for instance, principals of disadvantaged schools are more concerned than principals of advantaged schools about the material than about the human resources in their schools. Conversely, in Australia, B-S-J-G (China), New Zealand and Spain, they are relatively more concerned about the human than about the material resources (Figure II.6.13).

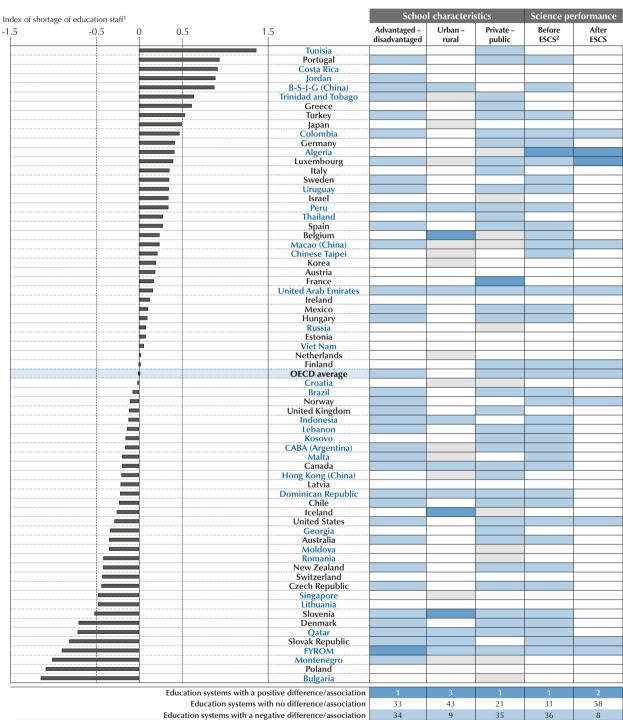
Class size and student-teacher ratio

Class size can affect learning in various ways. Large classes may limit the time and attention teachers can devote to individual students, rather than to the whole class; they may also be more prone to disturbances from noisy and disruptive students. As a result, teachers might have to adopt different pedagogical styles to compensate, and these, in turn, might affect learning.



Figure II.6.12 ■ Index of shortage of education staff, school characteristics and science performance





^{1.} Higher values in the index indicate a greater shortage of educational staff.

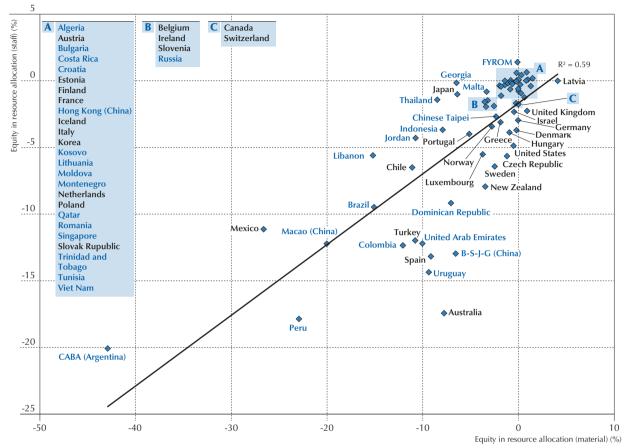
Countries and economies are ranked in descending order of the index of shortage of education staff.

Source: OECD, PISA 2015 Database, Table II.6.15.

^{2.} ESCS refers to the PISA index of economic, social and cultural status.







Source: OECD, PISA 2015 Database, Tables II.6.3 and II.6.16.

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Some studies, particularly those based on the Tennessee STAR experiment, which assigned students randomly to larger or smaller classes, show that smaller classes can improve student outcomes and might be more beneficial for disadvantaged and minority students (Dynarski, Hyman and Schanzenbach, 2013). Chetty et al. (2011) even find long-term effects on college attendance, home ownership and savings. However, other research shows no impact of class size on student performance (Woessmann and West, 2006). For instance, no long-term gains in earnings were observed among students in the Tennessee STAR experiment who attended smaller classes (Chetty et al., 2011); and large classes are found in many Asian countries where average student performance in PISA is high (Figure II.6.16). But given the relatively high cost of reducing class size, the decision to do so or not should ultimately depend on how much it improves student outcomes compared to other, less expensive, policy interventions (Fredriksson, Ockert and Oosterbeek, 2013).

PISA 2015 asked school principals to report the average size of language-of-instruction¹¹ classes in the national modal grade for 15-year-olds. It also asked the total number of teachers and students in their schools, from which the student-teacher ratio was computed (Table II.6.26).¹² According to schools principals, on average across OECD countries, there are 26 students per language-of-instruction class. In B-S-J-G (China), CABA (Argentina), Turkey and Viet Nam, there are 40 or more students per class, while in Belgium, Finland, Iceland, Malta and Switzerland, there are 20 or fewer students.

Across OECD countries, the average student attends a school where there are 13 students for every teacher (Table II.6.26). Student-teacher ratios range from almost 30 students per teacher in Brazil, Colombia, the Dominican Republic and Mexico, to fewer than 10 students per teacher in Albania, Belgium, Greece, Hungary, Iceland, Luxembourg, Malta and Poland.



The comparison of student-teacher ratios and class size can provide a measure of the spare teacher resource capacity within schools. Across education systems, there is a positive association between class size and student-teacher ratios; but there are several education systems, such as those in B-S-J-G (China), CABA (Argentina), Georgia, Japan and Singapore, that have both large classes and low or average student-teacher ratios. Teachers in these systems may, as a result, have more time to prepare for their classes and for other school responsibilities besides teaching. By contrast, there are also some education systems with small or average classes and high student-teacher ratios, such as those in Germany, Ireland, the Netherlands, New Zealand, the Russian Federation (hereafter "Russia"), the United Kingdom and the United States (Figure II.6.14).

35 Student-teacher ratio in the school **D** Italy A Germany C Israel Austalia Lithuania Ireland Czech Republic Lebanon New Zealand Moldov Oatar Norway United Kingdom Tunisia 30 Dominican Republic 1. Austria 2. Bulgaria Colombia 3. Croatia 4. Estonia 5. FYROM 25 6. Montenegro 7. Uruguay $R^2 = 0.25$ Netherlands 20 Thailand Iordan Canada ♦ Chinese Taipei United States Viet Nam Romania Turkey 15 Korea Denmark **United Arab Emirates ♦** Georgia ♦ B-S-J-G (China) Hong Kong (China) Slovak Republic France Switzerland Singapore

Japan Slovenia 10 Finland **4** .CABA (Argentina) Trinidad and Tobago Portugal Iceland Hungary Belgium◆ Greece **♦** Albania Malta Luxembourg 35 40 30 15 20 45 50 Class size in language-of-instruction class

Figure II.6.14 • Relationship between class size and student-teacher ratio

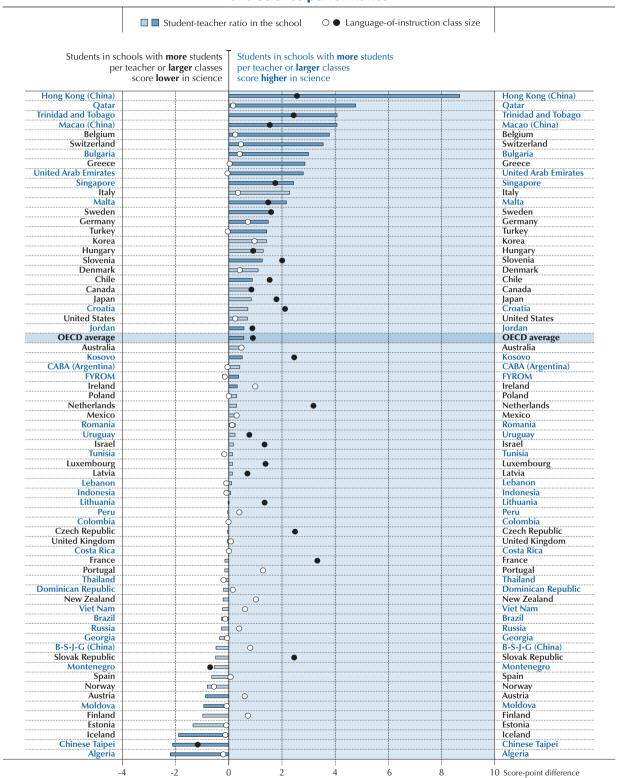
Source: OECD, PISA 2015 Database, Table II.6.26.

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Between 2006 and 2015, both of the above measures decreased across OECD countries – by about one student, when measuring class size, and by 0.7 student per teacher, when measuring the student-teacher ratio (Table II.6.28). Across PISA-participating education systems, class size increased in Denmark, Ireland, the Netherlands, Portugal and especially in Turkey, where it increased from 34 to 47 students. Class size decreased in 27 education systems, particularly in Greece (where it fell from 35 to 24 students per class), Hong Kong (China), Indonesia, Latvia, Macao (China) and Uruguay. The student-teacher ratio increased in 9 education systems during the period, especially in Colombia and the Netherlands, and decreased in 30 others, particularly in Chile, Hong Kong (China), Macao (China) and Tunisia. In Turkey, class size increased at the same time that the student-teacher ratio decreased, while in Colombia, Greece, Italy, Luxembourg and Qatar, class size decreased and the student-teacher ratio increased.

On average across OECD countries, large classes and higher student-teacher ratios are more frequently observed in socio-economically advantaged schools than in disadvantaged schools, in urban than in rural schools, in public than in private schools, and in upper secondary than in lower secondary schools (Tables II.6.29 and II.6.30). For instance, in Italy there are 8 students per teacher in disadvantaged schools while there are 13 students per teacher in advantaged schools.

Figure II.6.15 • Relationship between class size and student-teacher ratio, and science performance



Notes: Statistically significant values are marked in a darker tone (see Annex A3).

The regression analyses accounts for the socio-economic profile of students and schools.

Countries and economies are ranked in descending order of the change in science score associated with a one-unit increase in the student-teacher ratio. Source: OECD, PISA 2015 Database, Tables II.6.29 and II.6.30.



In Chile and FYROM, the difference in the student-teacher ratio between urban and rural schools is approximately ten students per teacher. But in a few countries, classes are larger or student-teacher ratios are higher in disadvantaged schools than in advantaged schools. For instance, in the Dominican Republic, there are 13 more students per teacher in disadvantaged than in advantaged schools. In this country, some students may be facing the double disadvantage of fewer resources both at home and at school.

Students in larger classes and in schools with higher student-teacher ratios score higher in science, on average across OECD countries (Figure II.6.15). The positive association between the student-teacher ratio and science performance is particularly strong in Belgium, Hong Kong (China), Macao (China), Qatar, and Trinidad and Tobago, and that between class size and science scores is particularly strong in France and the Netherlands. After accounting for the socio-economic profile of students and schools, students in Hong Kong (China), for instance, score nine points higher in science for every additional student per teacher in the school. At the system level, there is no linear association between the average size of the language-of-instruction class and average science performance. Students perform moderately lower in countries as the number of students per class increases from 20 to 35, but perform somewhat better after that point, mainly because of the high scores and large classes commonly observed in East Asian countries and economies, such as B-S-J-G (China), Japan, Macao (China), Singapore, Chinese Taipei and Viet Nam (Figure II.6.16).

The relationships between class size/student-teacher ratio and student achievement should be interpreted with caution, given that some education systems may be reducing the size of classes, or the student-teacher ratio, in an effort to tackle low performance. In addition, schools with lower achievement often have difficulty in retaining or attracting good students, which could affect their overall academic performance.

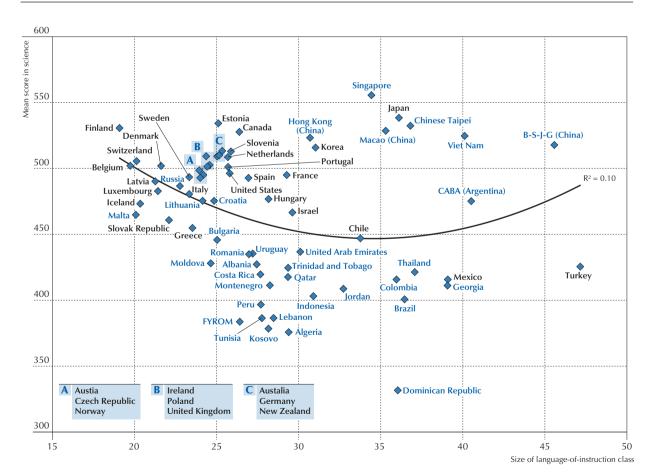


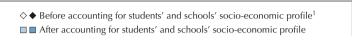
Figure II.6.16 • Relationship between class size and science performance

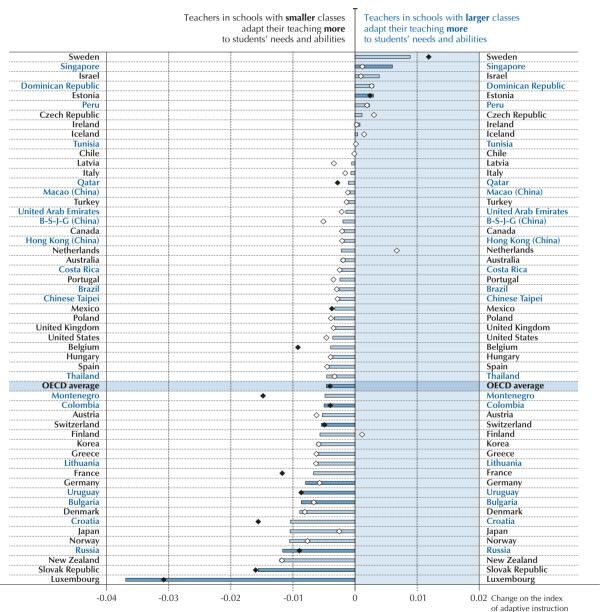
Source: OECD, PISA 2015 Database, Tables I.2.3 and II.6.26. StatLink | http://dx.doi.org/10.1787/888933436345



For instance, an often-mentioned benefit of smaller classes is that teachers can dedicate greater attention to individual students, especially to those who need academic support the most. PISA 2015 findings show that, on average across OECD countries, in schools with smaller classes, students were more likely to report that their teachers adapt their lessons to students' needs and knowledge, ¹³ provide individual help to struggling students, and change the structure of the lesson if students find it difficult to follow (Figure II.6.17). This is particularly the case in Luxembourg, Russia and the Slovak Republic, after accounting for students' and schools' socio-economic profile.

Figure II.6.17 ■ Class size and the index of adaptive instruction





 $^{1. \} The \ socio-economic \ profile \ is \ measured \ by \ the \ PISA \ index \ of \ economic, \ social \ and \ cultural \ status.$

Note: Statistically significant correlation coefficients are marked in a darker tone (see Annex A3).

Countries and economies are ranked in descending order of the regression coefficient, after accounting for students' and schools' socio-economic profile. Source: OECD, PISA 2015 Database, Table II.6.31.



TIME RESOURCES

Ever since the seminal study by John B. Carroll (1963) on the extent of learning as a function of the time a student receives instruction relative to the time the student needs (in addition to the quality of instruction and students' engagement and ability), educators and policy makers have attempted to understand how students' hours in school should be organised to maximise learning (Bloom, 1968). The literature suggests that increasing learning time can improve academic achievement, for instance by giving teachers and students more opportunities to cover the curriculum, repeat material, provide/receive feedback and engage in hands-on activities (Carroll, 1989; Marzano, 2003; Patall, Cooper and Allen, 2010). Increasing learning time can involve, for instance, making school days or years longer, or shortening lunch breaks. However, more learning time does not necessarily result in better student outcomes (Hattie, 2009), and it can actually lead to fatigue and boredom among students and burnout among teachers (Patall, Cooper and Allen, 2010). The key question is how the allocated instruction time translates into actual lesson time, engagement time and, ultimately, into productive or actual learning time (Gromada and Shewbridge, 2016).

Actual teaching time

Most education systems establish the total number of hours teachers are required to work per week or per year in order to earn a full-time salary. The required working time may include both teaching and non-teaching time, which is reserved for a variety of teachers' tasks, such as preparing lessons, correcting students' homework, grading assignments, or attending staff meetings or professional development sessions. Actual teaching time, which, in many countries, may differ from statutory teaching time, is the average number of hours per year that full-time teachers teach a group or a class of students, including overtime. It thus provides a full picture of teachers' actual teaching load (OECD 2016b, Indicator D4).

The allocation of time to each of these activities varies considerably across countries, as many factors may influence how much time teachers spend teaching, including collective and contractual agreements, teacher absenteeism, teacher shortage or variations in teaching load related to a teacher's progression through his or her career (i.e. reduced teaching load for beginning teachers). System-level data reveal that actual teaching time in PISA-participating countries and economies ranges from less than 500 hours per year in Malta, Qatar, Russia, Chinese Taipei and Uruguay to more than 800 hours in Australia and the Dominican Republic at both the lower and upper secondary levels (Table II.6.55). In the United States, actual teaching time also exceeds 800 hours annually at the lower secondary level.

There are also variations by level of education. Among OECD countries with available data for both levels of secondary education, average teaching time is 662 hours per year at the lower secondary level and 619 hours per year at the upper secondary level. The difference in total teaching time between these two levels of education is much smaller among partner countries, where teachers teach, on average, 595 hours per year at the lower secondary level and 589 hours per year at the upper secondary level.

Student learning time

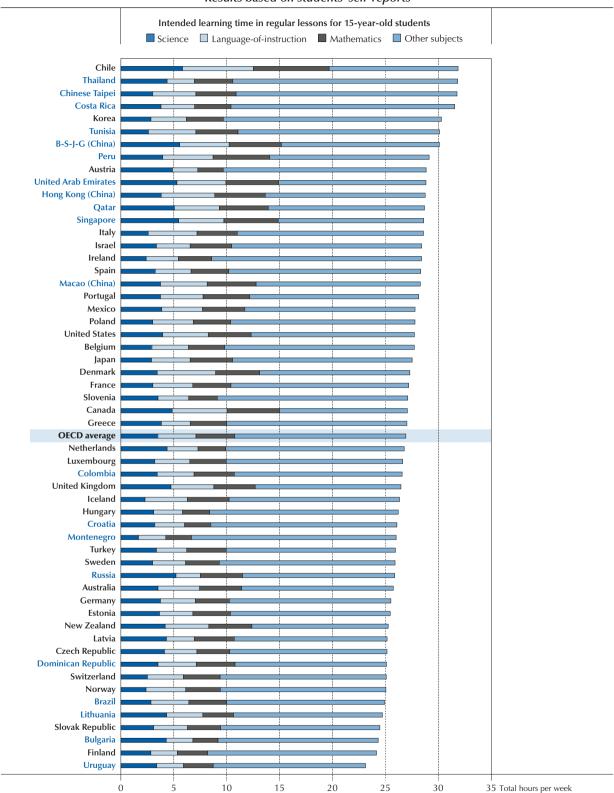
Intended learning time in school

School systems decide the overall amount of time devoted to instruction, and what material students should be taught and at what age. Total intended instruction time is an estimate of the number of hours during which students are taught both compulsory and non-compulsory parts of the curriculum, as per public regulations. On average across OECD countries, students are expected to receive an average of 7 677 hours of instruction in primary and secondary education by the time they are 14 years old. Most of this instruction time is compulsory (OECD, 2016b; Table II.6.53). Total intended instruction time for students up to 14 years ranges from over 9 500 hours in Chile and Denmark to less than 6 000 hours in Bulgaria, Croatia, Estonia, Finland, Georgia, Lithuania, Montenegro and Poland.

Most systems allocate more learning time for older students than younger students. The difference in the average intended instruction time per year for students between 12 and 14 years compared to the average time allocated to students up to the age of 9 varies among countries. It can represent an increase of less than 10% in Canada, Chile, Ireland, Italy, Israel, Macao (China) and Peru, to more than 40% in Bulgaria, Croatia, Georgia, Lithuania, Mexico and Chinese Taipei. By contrast, in Greece, Luxembourg, Malta, Portugal, Singapore and Uruguay, older students are provided with less intended instruction time than younger students. In Greece, Portugal and Uruguay, 12-14 year-old students are given 15% to 26% less instruction time, on average, than students aged 9 or younger (Table II.6.53).

Figure II.6.18 • Time per week spent learning in regular lessons

Results based on students' self-reports



Countries and economies are ranked in descending order of the total intended learning time in regular lessons. **Source:** OECD, PISA 2015 Database, Table II.6.32.



Students' learning time in regular school lessons

PISA 2015 asked students to report the average number of minutes per class period, the total number of class periods per week, and the number of class periods for science, language-of-instruction and mathematics. Across OECD countries, students reported spending 26 hours and 56 minutes per week in lessons, of which 3 hours and 30 minutes per week are spent in science lessons, 3 hours and 36 minutes per week in language-of-instruction classes, and 3 hours and 39 minutes per week in mathematics lessons (Figure II.6.18 and Table II.6.32).

Student learning time in regular lessons varies across school systems. Students in B-S-J-G (China), Chile, Costa Rica, Korea, Chinese Taipei, Thailand and Tunisia spend at least 30 hours per week in regular lessons (all subjects combined), while students in Brazil, Bulgaria, Finland, Lithuania, the Slovak Republic and Uruguay spend less than 25 hours per week. In B-S-J-G (China), Chile, Qatar, Russia, Singapore and the United Arab Emirates, 15-year-old students spend more than five hours in regular science lessons per week, while in Iceland, Ireland, Montenegro and Norway, they spend less than half of that time in science class. In Chile, Peru and Singapore, students spend more than five hours in regular mathematics lessons, whereas in Austria, Bulgaria, Croatia and Montenegro students spend less than half of that time in mathematics class. In Canada, Chile, Denmark and Hong Kong (China), 15-year-olds spend five hours per week in language-of-instruction classes, while students in Austria, Finland and Russia spend less than 2 hours and 30 minutes per week in these classes.

Even within individual school systems, the amount of learning time in regular lessons vaires, especially across schools with different socio-economic profiles (Table II.6.36). Across OECD countries, students in advantaged schools spend 27 hours and 15 minutes in regular lessons per week, while students in disadvantaged schools spend 26 hours and 33 minutes per week. This difference is observed in 31 out of 56 countries for which data are available and exceeds 3 hours per week of extra instruction in advantaged schools in B-S-J-G (China), Chinese Taipei, the United States and Uruguay. Part of the reason for this difference could be that advantaged 15-year-old students are more likely to attend upper secondary schools, where there are more hours of intended learning time than in lower secondary schools.

On average across OECD countries, and in a majority of education systems, students in socio-economically advantaged schools spend more time in science lessons than students in disadvantaged schools (Figure II.6.19 and Table II.6.33). The difference is 41 minutes per week on average across OECD countries but exceeds 2 hours per week in Croatia and Germany. Across OECD countries, students in advantaged schools also spend more time in mathematics lessons than students in disadvantaged schools (8 minutes more per week), but no differences are observed for language-of-instruction lessons (Tables II.6.34 and II.6.35).

On average across OECD countries, and in 14 out of 48 countries and economies, students in private schools spend more time in regular science lessons than students in public schools (Figure II.6.19). In Brazil, Croatia and New Zealand, for instance, there is a difference, in favour of private schools, of more than 80 minutes per week (Table II.6.33).

PISA examined the relationship between the intended time in science, language-of-instruction and mathematics classes with student performance in the corresponding PISA assessment – science, reading and mathematics. On average across OECD countries, and in three out of four education systems, students who spend more time in science lessons score higher in science, even after accounting for the socio-economic profile of students and schools (Figure II.6.19). For every additional hour spent in science lessons, students in OECD countries score five points higher in science – and eight points higher before accounting for the socio-economic profile of students and schools (Table II.6.33).

In most education systems, the association between the time spent in mathematics lessons and mathematics performance is positive but considerably weaker than that concerning science lessons and performance, while the association between intended time in language-of-instruction class and reading scores is negative in almost half of the PISA-participating countries and economies (Tables II.6.34 and II.6.35). The positive and stronger association between time spent in science class and performance in science could reflect the fact that 15-year-old students taking more science classes attend more selective education tracks, schools or classes. Another reason might be that science competencies – particularly in the life sciences – are acquired in a more linear fashion than the skills needed for the PISA reading and mathematics assessments. The recent OECD report, *Equations and Inequalities* (OECD, 2016d), proposes and examines a similar argument for mathematics learning. More frequent exposure to mathematics concepts and formulas is related to better performance on routine problems, i.e. when students are asked to use a simple formula, but seems insufficient when students are asked to solve non-routine problems.



Figure II.6.19 Intended learning time in science lessons, school characteristics and science performance

				Education systems with a negative difference/association Difference/association not significant Missing values				
snent in re	regular science lessons per week (hours)			Schoo	l character	istics	Science pe	rformanc
. эрене ні те	4		0	Advantaged – disadvantaged	Urban – rural	Private – public	Before ESCS ¹	After ESCS
			Chile					
			B-S-J-G (China) Singapore					
			Singapore United Arab Emirates					
			Russia Qatar					
			Austria					
			CanadaUnited Kingdom					
			Netherlands					
			■ Thailand					
		i	Lithuania Latvia					
			■ Bulgaria					
			New Zealand					
			Czech Republic Peru					
			United States					
		4	Mexico Greece					
			Hong Kong (China)					
			Costa Rica					
			Macao (China) Portugal					
			Germany					
			Estonia Slovenia					
			Dominican Republic					
			Australia					
			OECD average Colombia					
			Denmark					
			Uruguay Israel					
			Turkey					
			Spain					
			Croatia Luxembourg					
			Hungary Slovak Republic					
			Slovak Republic France					
			Chinese Taipei					
			Poland					
			Sweden Belgium					
			■ Japan					
			Brazil Korea					
			Finland					
			Tunisia					
	i		Italy Switzerland					
			■ Ireland					
	T T		Norway Iceland					
			Montenegro					
	· ·	Education systems with a no	ositive difference/association	38	7	14	45	42
			ith no difference/association	15	32	30	7	10
		Education systems with a ne		2	6	4	3	3

^{1.} ESCS refers to the PISA index of economic, social and cultural status.

Countries and economies are ranked in descending order of time spent in regular science lessons per week.

Source: OECD, PISA 2015 Database, Table II.6.33.

StatLink http://dx.doi.org/10.1787/888933436374

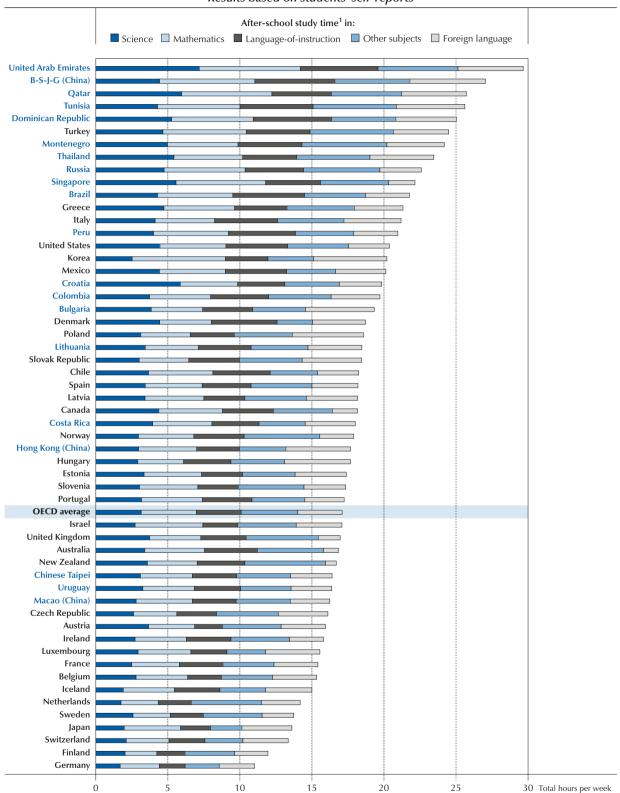
After-school learning time

Students were asked to report the number of hours they typically spend per week, in addition to the required school schedule, learning science, language-of-instruction, mathematics, foreign languages and other subjects, including the time dedicated to homework, additional instruction and private study. Across OECD countries, students spend 3.2 hours per week studying science after school, 3.8 hours studying mathematics, 3.1 hours studying the language of instruction, 3.1 hours studying a foreign language, and almost 4 hours studying other subjects (Figure II.6.20). All subjects combined, in B-S-J-G (China), the Dominican Republic, Qatar, Tunisia and the United Arab Emirates, students reported that they study at least 25 hours per week in addition to the required school schedule; in Finland, Germany, Iceland, Japan, the Netherlands, Sweden and Switzerland, they study less than 15 hours per week.



Figure II.6.20 ■ After-school study time

Results based on students' self-reports



1. Hours spent learning in addition to the required school schedule, including homework, additional instruction and private study. Countries and economies are ranked in descending order of the total time spent learning after school.

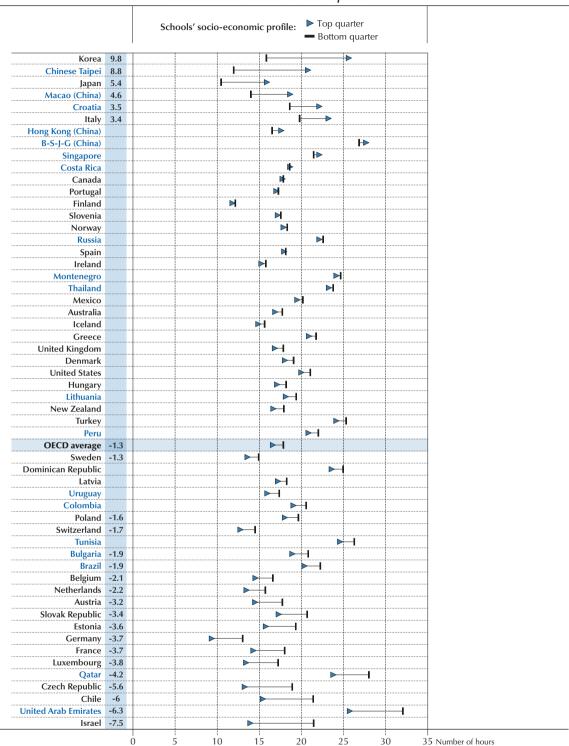
Source: OECD, PISA 2015 Database, Table II.6.37.

Source: OECD, PISA 2013 Database, Table 11.6.37.



Figure II.6.21 ■ After-school study time, by schools' socio-economic status

Results based on students' self-reports



Note: Statistically significant differences in the number of hours studying after school between schools in the top quarter of the PISA index of economic, social and cultural status and those in the bottom quarter are indicated next to the country/economy name.

Hours spent learning in addition to the required school schedule, including homework, additional instruction and private study.

Countries and economies are ranked in descending order of the difference between schools in the top quarter of socio-economic status and those in the bottom quarter.

Source: OECD, PISA 2015 Database, Table II.6.41.



Across OECD countries, students in disadvantaged schools spend more time studying after school (18 hours per week) than students in advantaged schools (17 hours per week) (Figure II.6.21). Evidence from PISA 2012 on the time students spend in different after-school learning activities (OECD, 2013) suggests that, in most education systems, these differences should be interpreted as a compensatory measure, whereby struggling students, who are more likely to come from a disadvantaged background, are offered the possibility to narrow the performance gap between them and their better-performing peers. The important question is: are the schools organising and paying for this extra learning time, or are families shouldering the financial burden?

Probably more worrying is the situation in Croatia, Italy, Japan, Korea, Macao (China) and Chinese Taipei, where students in advantaged schools spend more time studying after school, probably widening the performance gap between advantaged and disadvantaged students. If these differences are the result of private tutoring and a pervasive shadow education system, as other studies suggest for East Asian school systems (Bray and Lykins, 2012), it could undermine the principle of quality (and free) education for all.

On average across OECD countries, students who reported spending more time studying after school score lower in the PISA assessment (Tables II.6.38, II.6.39, II.6.40 and II.6.41). After accounting for the socio-economic profile of students and schools, for every additional hour students spend studying science and the language-of-instruction after school, they score about two and three points lower, respectively, in the corresponding PISA assessment. In mathematics, they score five points lower for every additional hour spent studying mathematics beyond their regular lessons.

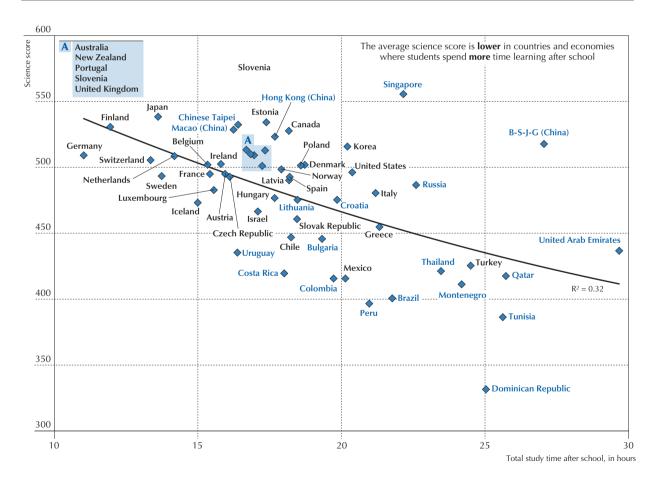


Figure II.6.22

Relationship between after-school study time and science performance

Note: Hours spent learning in addition to the required school schedule, including homework, additional instruction and private study. Source: OECD, PISA 2015 Database, Tables 1.2.3 and II.6.41.

StatLink http://dx.doi.org/10.1787/888933436409



Comparing learning time in and after school, it could be argued that learning time at school is more effective than studying after school. Another plausible interpretation is that students who are struggling at school are more likely to participate in after-school learning activities or put in more effort on their own at home in order to catch up with their better-performing peers. Similarly, at the country level, the more time students spend studying after school, the lower their achievement in science (Figure II.6.22).

By combining the total number of hours that students spend learning or studying in and outside of school, and their scores in science, reading and mathematics, it is possible to get a rough idea of students' efficiency in learning. Of course, the learning time measured in this way cannot adequately capture the accumulated learning time during a student's entire academic life, but it does say something about how much time students devote deliberately to learning and studying across different countries.

The ratio between PISA scores and learning time in and outside of school (how many score points for each hour spent learning) does not necessarily reflect the efficiency of the education system. Students learn mainly at school and in studying for school, but they also learn by interacting with knowledgeable others, such as family members and peers. For these reasons, the ratios can be interpreted in various ways. They can be an indication of the quality of a school system; they can also be indicative of the differences in learning time across education levels. For example, 15-year-olds in some education systems may be compensating for (or reaping the benefits of) the time spent learning in earlier stages of their education. The ratio between learning time and PISA scores can also indicate that, to succeed academically, students in some education systems need to spend more time in "planned" or "deliberate" learning because they have fewer opportunities to learn informally outside of school. The low ratios between PISA scores and learning time observed in some countries and economies with high PISA scores can also signal decreasing returns to learning time, or the increasing difficulty of attaining higher PISA scores.

According to this analysis, students in Finland, Germany, Japan and Switzerland devote less time to learning in relation to their PISA scores in science, compared with students in other countries, while those in the Dominican Republic, Peru, Qatar, Thailand, Tunisia and the United Arab Emirates spend more time learning relative to their academic performance (Figure II.6.23). In the Dominican Republic, for instance, the ratio between the science score and total learning time – in and outside of school – is 6.6 score points per hour, while in Finland it is 14.7 score points per hour.

Assistance with homework at school

Doing homework can help students identify and apply material they have learned, provide additional stimulation for high-performing students, and guarantee that struggling students are learning the basics (OECD, 2014). Previous PISA reports have shown that spending more hours doing homework – up to seven hours per week – is associated with higher academic achievement (OECD, 2016a). However, these benefits can only materialise if students have enough time, a quiet place to study and access to knowledgeable others who can motivate and guide them, should the need arise. Homework-assistance programmes organised by schools can create the right conditions for students to complete their school assignments and gain self-confidence, particularly for those students who would otherwise not be take part in after-school programmes (Beck, 1999; Cosden et al., 2001).

For the first time, PISA 2015 asked school principals if the school provides a room where students can do their homework and staff who can help them with homework. Across OECD countries, about three out of four students are enrolled in schools that provide a room where students can do their homework, and three out of five students attend schools where staff is available to help students with their homework (Table II.6.42). In Japan, Luxembourg, Chinese Taipei and the United Kingdom, at least 95% of 15-year-old students have access to a room to do their homework at school, while in Jordan, Kosovo and Lebanon, less than 30% of students do. In Denmark, Luxembourg, Sweden, the United Kingdom and the United States, more than 90% of students attend schools where staff is available to help with homework; but in Brazil, Colombia, Croatia and Montenegro, less than 20% of students attend such schools.

Across OECD countries, socio-economically advantaged schools are more likely to offer a room for homework than disadvantaged schools, and private schools are more likely than public schools to do so (Table II.6.43). However, disadvantaged schools are more likely than advantaged schools to provide staff that can help students with homework, and rural schools are more likely than urban schools to do so (Table II.6.44). In most education systems, students score similarly whether or not their schools offer study help in the form of either study rooms or staff, at least after accounting for the socio-economic profile of students and schools.



Figure II.6.23 ■ Ratio between learning time and PISA scores

Results based on students' self-reports, OECD average

	Learning time (15-year-old students)			Ratio between learning time and PISA scores				
	Intended learning time at school (hours)	Study time after school (hours) ¹	Total learning time (hours)	Total learning time as a percentage of available time ²	Score points in science per hour of total learning time	Score points in reading per hour of total learning time	Score points in mathematics per hour of total learning time	
Finland	24.2	11.9	36.1	45.1	14.7	14.6	14.2	
Germany	25.5	11.0	36.5	45.7	13.9	13.9	13.8	
Switzerland	25.1	13.4	38.4	48.0	13.2	12.8	13.6	
Japan	27.5	13.6	41.1	51.4	13.1	12.5	12.9	
Estonia	25.4	17.4	42.8	53.5	12.5	12.1	12.1	
Sweden	25.9	13.7	39.6	49.6	12.4	12.6	12.5	
Netherlands	26.8	14.2	41.0	51.2	12.4	12.3	12.5	
New Zealand	25.3	16.7	41.9	52.4	12.2	12.1	11.8	
Australia	25.7	16.8	42.6	53.2	12.0	11.8	11.6	
Czech Republic	25.1	16.1	41.3	51.6	11.9	11.8	11.9	
Macao (China)	28.3	16.2	44.5	55.7	11.9	11.4	12.2	
United Kingdom	26.5	17.0	43.4	54.3	11.7	11.5	11.3	
Canada	27.1	18.2	45.2	56.5	11.7	11.6	11.4	
Belgium	27.7	15.3	43.1	53.8	11.7	11.6	11.8	
France	27.2	15.4	42.6	53.3	11.6	11.7	11.6	
Norway	25.0	17.9	43.0	53.7	11.6	11.9	11.7	
Slovenia	27.1	17.3	44.5	55.6	11.5	11.4	11.5	
Iceland	26.3	15.0	41.3	51.7	11.5	11.7	11.8	
Luxembourg	26.6	15.6	42.2	52.7	11.4	11.4	11.5	
Ireland	28.4	15.8	44.2	55.3	11.4	11.8	11.4	
Latvia	25.2	18.2	43.3	54.2	11.3	11.3	11.1	
Hong Kong (China)	28.8	17.7	46.4	58.0	11.3	11.3	11.8	
OECD average	26.9	17.1	44.0	55.0	11.2	11.2	11.1	
Chinese Taipei	31.8	16.4	48.2	60.2	11.1	10.3	11.3	
Austria	28.8	15.9	44.8	56.0	11.1	10.8	11.1	
Portugal	28.2	17.2	45.4	56.7	11.0	11.0	10.8	
Uruguay	23.1	16.4	39.5	49.4	11.0	11.1	10.6	
Lithuania	24.7	18.5	43.2	54.0	11.0	10.9	11.1	
Singapore	28.6	22.2	50.8	63.5	10.9	10.5	11.1	
Denmark	27.3	18.7	46.0	57.5	10.9	10.9	11.1	
Hungary	26.2	17.7	43.9	54.9	10.9	10.7	10.9	
Poland	27.8	18.6	46.4	58.0	10.8	10.9	10.9	
Slovak Republic	24.5	18.5	42.9	53.7	10.7	10.5	11.1	
Spain	28.3	18.2	46.5	58.2	10.6	10.6	10.4	
Croatia	26.1	19.8	45.9	57.4	10.3	10.6	10.1	
United States	27.7	20.4	48.1	60.1	10.3	10.3	9.8	
Israel	28.4	17.1	45.5	56.9	10.3	10.5	10.3	
Bulgaria	24.3	19.3	43.6	54.5	10.2	9.9	10.1	
Korea	30.3	20.2	50.5	63.1	10.2	10.2	10.4	
Russia	25.9	22.6	48.5	60.6	10.0	10.2	10.2	
Italy	28.6	21.2	49.8	62.2	9.7	9.7	9.8	
Greece	27.0	21.3	48.4	60.4	9.4	9.7	9.4	
B-S-J-G (China)	30.1	27.0	57.1	71.4	9.1	8.6	9.3	
Colombia	26.6	19.7	46.3	57.9	9.0	9.2	8.4	
Chile	31.9	18.2	50.1	62.6	8.9	9.2	8.4	
Mexico	27.8	20.1	47.9	59.9	8.7	8.8	8.5	
Brazil	24.9	21.8	46.7	58.4	8.6	8.7	8.1	
Costa Rica	31.5	18.0	49.5	61.9	8.5	8.6	8.1	
Turkey	25.9	24.5	50.4	63.0	8.4	8.5	8.3	
Montenegro	26.0	24.2	50.2	62.7	8.2	8.5	8.3	
Peru	29.1	21.0	50.1	62.6	7.9	7.9	7.7	
Qatar	28.7	25.7	54.4	68.0	7.7	7.4	7.4	
Thailand	31.8	23.5	55.3	69.1	7.6	7.4	7.5	
United Arab Emirates	28.8	29.7	58.5	73.1	7.5	7.4	7.3	
Tunisia	30.1	25.6	55.7	69.7	6.9	6.5	6.6	
Dominican Republic	25.1	25.0	50.1	62.7	6.6	7.1	6.5	

^{1.} Hours spent learning in addition to the required school schedule, including homework, additional instruction and private study.

Countries and economies are ranked in descending order of the score points in science per hour of total learning time.

Source: OECD, PISA 2015 Database, Tables I.2.3, I.4.3, I.5.3, II.6.32 and II.6.41.

StatLink ** http://dx.doi.org/10.1787/888933436411

Across OECD countries, students who attend schools that provide a room for homework do not spend more time studying after school (Table II.6.45). However, they spend considerably more time studying after school – roughly 13 minutes more per week, after accounting for the socio-economic profile of students and schools – if school staff members are available to help them with homework. The association is particularly strong in Austria and Canada, where students in schools where staff members are available to help them with homework spend at least two hours more studying after school than students in schools where no such staff member is available.

^{2.} Excluding sleeping time (8 hours) and weekends.



Extracurricular activities

Students'school life does not always end when the final school bell rings. Extracurricular activities, such as sports activities and teams, debate clubs, academic clubs, bands, orchestras or choirs, can improve students' cognitive and non-cognitive skills. Skills such as persistence, independence, following instructions, working well within groups, dealing with authority figures and fitting in with peers are needed for students to succeed in school – and beyond (Carneiro and Heckman, 2005; Covay and Carbonaro, 2010; Farb and Matjasko, 2012; Farkas, 2003; Howie et al., 2010). Some research finds that, since extracurricular activities are more frequently offered in advantaged schools, they can play a role in perpetuating socio-economic inequalities in education (Covay and Carbonaro, 2010; Lareau, 2003).

School principals were asked to report whether their school offers various extracurricular activities to students in the modal grade for 15-year-olds. Across OECD countries, 90% of students attend schools that support a sports team or sporting activities; 73% attend schools that offer volunteering or service activities; 66% attend schools that offer science competitions; 63% attend schools that offer an art club or art activities; 61% attend schools that support a band, orchestra or choir; 58% attend schools that produce a school play or musical; 54% attend schools that support a school yearbook, newspaper or magazine; 39% attend schools that support a science club; 39% attend schools that support a club with a focus on computers and information and communications technologies; and 31% attend schools that support a chess club (Figure II.6.24).

Some of the principals' responses to these questions were combined to create an index of creative extracurricular activities at school, which is the sum of principals' responses to questions about whether their school offers: a band, orchestra or choir; a school play or school musical; and an art club or art activities. The index ranges from 0 to 3, with each response weighed equally. Countries and economies where these activities are more frequently offered include Canada, Hong Kong (China), Macao (China), the United Kingdom and the United States, where nearly all of these activities are offered, on average. By contrast, in Austria, Belgium, Denmark and Spain, schools offer, on average, only around one of these activities, and in Norway less than one (Figure II.6.25).

In 53 out of 68 education systems, these creative activities are more frequently offered in advantaged schools than in disadvantaged schools (Figure II.6.25). On average across OECD countries and in many education systems, these activities are more frequently offered in urban than in rural schools, and in private than in public schools. In as many as 54 out of 68 education systems, students score higher in science when their schools offer more creative extracurricular activities. Even after accounting for the socio-economic profile of students and schools, there are still 19 education systems where students perform better in science if these activities are offered at school, and only one country – Tunisia – where they score lower in science.

ATTENDANCE AT PRE-PRIMARY SCHOOL

Whether and for how long students are enrolled in pre-primary education is another important aspect of time resources invested in education. Many of the inequalities observed in school systems are already present when students first enter formal schooling and persist as students progress through education (Berlinski, Galiani and Gertler, 2009; Entwisle, Alexander and Olson, 1997; Mistry et al., 2010). Because research shows that inequalities tend to grow when students are not attending school, such as during long school breaks (Downey, Von Hippel and Broh, 2004), earlier entry into the school system may reduce inequalities in education – as long as participation in pre-primary schooling is universal and the learning opportunities across pre-primary schools are of high quality and relatively homogeneous. Earlier entry into pre-primary school prepares students for entry into – and success in – formal schooling (Chetty et al., 2011).

Across OECD countries, the average time spent in pre-primary education is three years, but around 5% of 15-year-old students reported that they had not attended pre-primary school at all (Tables II.6.50 and II.6.51). Even if a majority of students in all education systems reported that they had attended pre-primary education, in B-S-J-G (China), Croatia, Lithuania, Montenegro, Poland and the United States, more than 17% of students – and in Turkey, almost half of students – reported that they had never attended pre-primary school.

Across OECD countries, students in socio-economically advantaged schools had attended about four months more of pre-primary school than students in disadvantaged schools; in B-S-J-G (China), Croatia, the Dominican Republic, Lithuania, Poland and Russia, the difference is at least one year. There is no country/economy where students in disadvantaged schools had spent significantly more time in pre-primary education, even if students in disadvantaged and advantaged schools in Belgium, the Czech Republic, Germany, Hong Kong (China), Iceland, Italy, Japan, Korea, Macao (China), New Zealand, Switzerland and Chinese Taipei show similar levels of attendance. Across OECD countries, students in urban schools had spent two months more in pre-primary school than students in rural schools, and students in private schools had also spent two months more in pre-primary education than students in public schools.



Figure II.6.24 • Extracurricular activities offered at school

Results based on school principals' reports

Less than half of students From 50% to 75% of students More than 75% of students

	More than 75% of students									
		Percentage of students in schools where the following extracurricular activities are offered								
	Band, orchestra or choir	School play or school musical	School yearbook, newspaper or magazine	Volunteering or service activities	Science club	Science competitions	Chess club	Club with a focus on computers and ICT	Art club/ activities	Sporting team/ activities
Hong Kong (China)	94	81	91	100	95	87	75	95	98	100
Korea	86	55	85	100	93	86	95	84	97	99
Macao (China)	94	95	95	100	74	96	42	79	97	100
Chinese Taipei United States	92 93	60 84	97 95	99 98	80 75	81 72	71 48	76 67	95 92	99
United States United Kingdom	96	88	78	91	79	72	56	69	94	100
Thailand	82	79	86	89	90	72	38	94	89	99
New Zealand	96	82	88	99	49	83	76	64	77	100
B-S-J-G (China)	66	54	79	93	91	90	68	72	95	100
Singapore	99	70	95	100	42	89	25	89	92	100
Canada	88	88	88	97	57	76	52	63	91	100
Poland	65	81	61 87	99 94	79 86	95 91	24	72 74	88	100 99
Qatar Malta	30 73	74 81	56	94	66	75	26 35	61	80 91	99
Australia	92	74	69	85	38	91	62	44	71	98
United Arab Emirates	34	68	75	90	82	88	40	74	74	95
Montenegro	43	79	88	81	76	83	28	62	78	95
Slovenia	69	70	86	86	52	87	29	49	71	98
Russia	68	41	67	92	77	99	33	38	71	98
Slovak Republic	35	47	73	86	60	81	27	84	71	99
Luxembourg	85	77	53	93	32	81	51	21	67	100
Romania	43	69	93	25	73	37	43	84	94	94
Latvia	78	74	55	80	45	85	16	39	86	96
Lithuania	89	56	69	74	34	92	18	36	85	98
Germany	78 91	62 51	55 48	94 91	48 60	59 24	26 33	58 53	75 97	93
Japan Estonia	81	50	57	76	42	94	21	46	75	96
FYROM	71	70	60	84	39	71	23	54	62	100
Indonesia	64	37	68	76	59	80	29	42	80	96
Albania	56	64	37	88	48	85	36	35	78	98
Hungary	50	45	49	82	52	93	21	57	57	98
Croatia	43	57	62	98	52	82	14	36	56	99
Portugal	26	57	69	89	57	89	33	23	58	97
Bulgaria	39	42	57	89	61	83	26	47	59	94
Georgia	32	58	69	82	39	79	35	14	81	98
Turkey Moldova	39 31	50 44	42 42	75 88	42 17	58 98	75 40	51 34	55 90	97 99
Chile	73	58	30	60	35	63	30	47	87	97
OECD average	61	58	54	73	39	66	31	39	63	90
Ireland	81	43	45	66	35	65	38	37	63	100
Kosovo	63	50	50	77	52	58	21	36	59	97
CABA (Argentina)	62	53	26	74	49	54	15	66	79	86
Israel	54	48	55	98	58	57	7	42	55	85
Dominican Republic	49	54	20	79	50	81	46	17	75	86
Trinidad and Tobago	64	45	30	81	39	69	39	18	74	97
Crash Popublic	40	43	41	92	35	68	20	32	68	95
Czech Republic Viet Nam	42 18	25 89	54 45	63 82	47 44	85 47	21 15	46 18	54 67	89 99
Jordan	23	54	45	86	52	25	32	36	57	95
Costa Rica	79	59	12	31	24	91	24	23	70	93
Lebanon	23	49	50	78	44	58	14	35	58	89
Italy	21	68	49	66	46	66	8	33	44	92
Mexico	42	50	33	56	29	69	39	24	63	86
France	45	70	39	37	24	67	20	19	72	97
Netherlands	52	60	49	94	18	51	11	7	63	82
Tunisia	27	44	39	65	59	42	20	47	56	82
Algeria	32	57	45	65	64	33	7	35	44	90
Iceland	48	75	70	31	10	26	47	39	58	69
Peru	49 50	55 60	22 26	44 62	28 19	70 71	27 7	25 19	62	85 85
Greece Finland	81	40	41	36	13	86	8	13	46 37	85
Switzerland	71	57	31	36	37	24	9	22	63	90
Spain	29	46	48	62	16	66	19	22	36	80
Belgium	28	53	37	72	6	69	18	10	36	86
Austria	47	34	42	87	5	31	16	21	28	76
Uruguay	70	43	12	27	35	45	13	27	27	88
Brazil	31	51	26	49	13	27	33	16	43	87
Sweden	62	47	22	41	7	61	11	8	29	76
Denmark	43	40	28	18	9	33	16	12	29	71
Norway	24	33	26	52	2	12	11	11	8	35

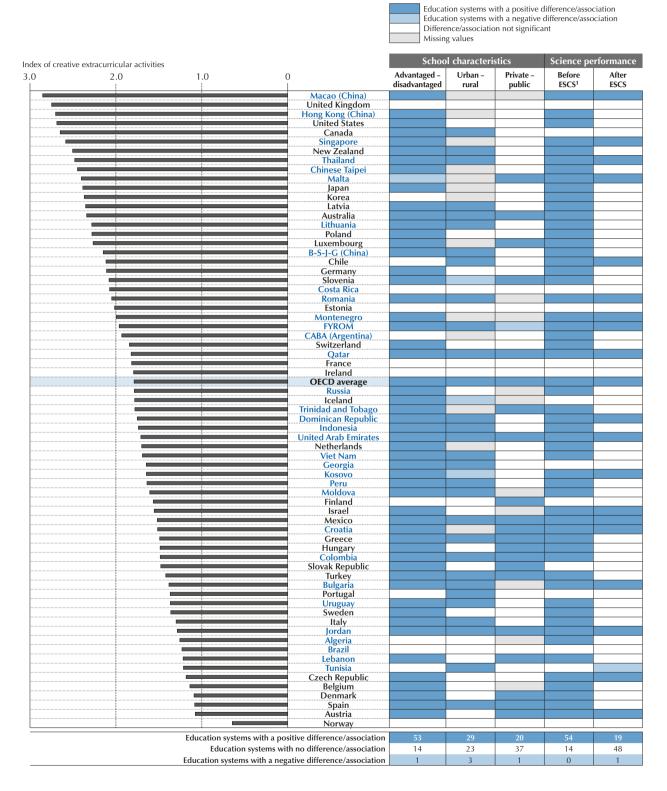
Countries and economies are ranked in descending order of the percentage of students in schools offering extracurricular activities (average 12 activities).

Source: OECD, PISA 2015 Database, Table II.6.46.

StatLink ← http://dx.doi.org/10.1787/888933436425



Figure II.6.25 • Index of creative extracurricular activities, school characteristics and science performance



 $^{1. \} ESCS \ refers \ to \ the \ PISA \ index \ of \ economic, \ social \ and \ cultural \ status.$

Countries and economies are ranked in descending order of the index of creative extracurricular activities.

Source: OECD, PISA 2015 Database, Table II.6.49.

StatLink http://dx.doi.org/10.1787/888933436439



Students score four points higher in science for every additional year they had spent in pre-primary education, but the association disappears once the socio-economic status of students and schools is accounted for. One reason why the association is weak, even before accounting for the socio-economic profile of students and schools, is that the relation is curvilinear: students who had spent too little time (less than one year) in pre-primary education score lower in science than students who had not attended or who had spent more than one year (Table II.6.52).

Notes

- 1. This only covers expenditure on educational institutions.
- 2. These resources are allocated throughout a student's educational, and countries spend different amounts per student. Caution is required in interpreting this indicator, as school systems are organised in many different ways across countries. For example, some school systems include special education in school budgets while others do not. Some school systems sponsor extensive recreational, athletic and extracurricular activities that are not related to academic instruction. In addition, some countries require schools to pay the pensions and health insurance of school staff, while others include these costs in the national budget for all citizens.
- 3. System-level data that are not derived from the PISA 2015 student or school questionnaire are extracted from the OECD's annual publication, *Education at a Glance*, for those countries and economies that participate in that periodic data collection. For other countries and economies, a special system-level data collection was conducted in collaboration with PISA Governing Board members and National Project Managers.
- 4. See Boxes II.2.1, II.2.2 and II.2.3 in Chapter 2 for a description of how PISA defines socio-economically disadvantaged and advantaged schools, public and private schools, and urban and rural schools.
- 5. The index of equity in resource allocation (material) is the percentage of the variation on the index of shortage of educational material explained by the PISA index of economic, social and cultural status of the school multiplied by a negative or positive sign, depending on the sign of the relationship. A value of zero indicates that there is no difference between socio-economically advantaged and disadvantaged schools in how concerned principals are about the educational material at school, and positive values (higher equity) indicate that principals of socio-economically advantaged schools are more concerned than principals of disadvantaged schools.
- 6. Annual statutory salaries of teachers refer to the average scheduled gross salary per year of full-time classroom teachers according to official pay scales (OECD, 2016b).
- 7. Minimum qualifications required to enter the teaching profession may not be the most commonly held qualifications in the teaching force. In several education systems, the "typical" teacher is certified and qualified beyond the minimum requirements and has reached a given position on the salary scale. This is referred to as "typical training" of teachers in Table II.6.54 and it varies depending on the country and the school system (OECD, 2016b, Indicator D3).
- 8. In Chile the question about the certification of teachers was adapted as "authorised or enabled by the Ministry of Education".
- 9. The timing of the PISA data collection can have an impact on principals' responses to this question. For example, if most teachers in a country or economy had participated in professional development programmes during summer holidays and the PISA data collection was conducted before the summer break in this country/economy, the reported proportion would be an underestimate of the reality.



- 10. The index of equity in resource allocation (staff) is the percentage of the variation on the index of shortage of educational staff explained by the school PISA index of economic, social and cultural status of the school multiplied by a negative or positive sign, depending on the sign of the relationship. A value of zero indicates that there is no difference between socio-economically advantaged and disadvantaged schools in how concerned principals are about the educational staff at school, and positive values (higher equity) indicate that principals' in socio-economically advantaged schools are more concerned than principals in disadvantaged schools.
- 11. Language-of-instruction refers to the language in which students from the school took the PISA test.
- 12. The student-teacher ratio is not necessarily the same as class size. For example, schools with large special education programmes and more teaching assistants tend to have more teachers, but the schools' high student-teacher ratio has no impact on the size of regular classes. In addition, the amount of preparation time per day allotted to teachers may vary across schools and across school systems. More teachers are needed where more preparation time is given and class size remains constant.
- 13. See Chapter 2 for details on the index of adaptive teaching.

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What PISA 2015 results imply for policy

By reporting on the achievements of many education systems against a common set of benchmarks, PISA aims to encourage policy makers and practitioners to learn from the policies and practices of their peers around the world. This chapter examines how some of these policies and practices are associated with student outcomes, particularly those related to performance in and attitudes towards science.

A note regarding Israel

The statistical data for Israel are supplied by and under the responsibility of the relevant Israeli authorities. The use of such data by the OECD is without prejudice to the status of the Golan Heights, East Jerusalem and Israeli settlements in the West Bank under the terms of international law.



PISA conducts extensive, rigorous and internationally comparable assessments to measure the knowledge and skills of 15-year-old students. The PISA survey also gathers a wide range of data about students, parents, teachers, schools and education systems. The purpose of the assessments is to establish insights that help students learn better, teachers to teach better and school systems to become more effective. Because PISA reports on the achievements of many countries and economies against a common set of benchmarks, it stimulates discussion among key stakeholders in education in participating countries and economies about the strengths and weaknesses of their education systems; and it encourages policy makers and practitioners to learn about which education policies work best from the experiences of their peers around the world.

This volume describes the basic characteristics of schools and education systems, and examines the ways these characteristics are associated with education outcomes. These characteristics include, among others, the working conditions of teachers, the degree to which decisions are shared between different levels of government and school faculty, the frequency and nature of student assessments, how educational resources are allocated across schools, and how conducive the school climate is to learning. Education outcomes considered in PISA 2015 include students' academic performance, their belief in the value of scientific enquiry, their expectations of a career in science, and equity in science performance.

Everyone needs to be able to "think like a scientist" to a greater or lesser extent – to weigh evidence before coming to a conclusion, and understand that scientific "truth" can change over time, as new discoveries are made and as human understanding deepens. This volume describes the patterns of association between key school and system characteristics and students' proficiency in science, which varies considerably across education systems and schools.

While the causal nature of such relationships cannot be established from PISA results alone, an extensive network of correlations can be drawn between certain education outcomes and a large range of school- and system-level factors that could conceivably affect them. One such correlation that has been confirmed over successive PISA assessments is that greater spending on education is not always related to better results. Across those partner countries and economies that spend less per student compared to most OECD countries, greater expenditure is associated with higher PISA science scores (Figure II.6.2). But across those countries and economies that invest more than a threshold amount on education, and that includes most OECD countries, cumulative expenditure per student is no longer associated with student performance. This should prompt countries not only to think about the amount of resources invested in education, but also to carefully consider how these resources should be translated into quality education for all.

ACCOUNTING FOR VARIATIONS IN STUDENT PERFORMANCE

One of the main foci of this volume is to understand the differences in student outcomes between schools and education systems (Volume I examines student-level factors and Volume III explores social and emotional outcomes). Among OECD countries, 10% of the variation in science performance observed among students is attributable to differences in performance among schools within a country, and 62% is attributable to differences in performance among schools within a country, and 62% is attributable to differences in performance among students within schools (Figure II.7.1). Across all the countries and economies that participated in PISA 2015, 22% of the variation in science performance is observed between school systems, 26% between schools, and the remaining between students.

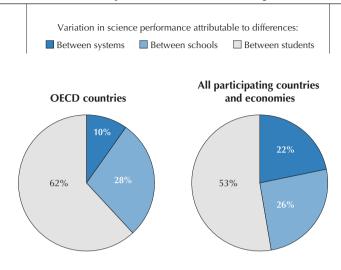
GIVE EVERY 15-YEAR-OLD THE OPPORTUNITY TO LEARN SCIENCE IN SCHOOL

It may seem obvious to say that students need to learn science, but across OECD countries 6% of students reported that they are not required to attend any science lessons at school (Table II.2.3). Not surprisingly, these students score 44 points lower in science than students who attend at least one science course per week, and in 21 countries and economies, the difference is at least 50 points. Their poor performance may be one of the reasons why these students do not take science courses in the first place, but cutting them off entirely from school science may only widen the gap with their better-performing peers.

In many education systems where students are selected into different types of education programmes at an early age, such as Austria, Belgium, Hungary, the Netherlands and Switzerland, many 15-year-olds do not have access to science courses, or science competitions, at school. However, many 15-year-old students in other education systems also have no opportunity to learn science, in many cases because they are given some choice about the courses they attend. Even if all students do not have to learn the same science material, the opportunity to choose science courses need not become an opportunity not to learn science.



Figure II.7.1 • Variation in science performance between systems, schools and students



Source: OECD, PISA 2015 Database.

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All the correlational evidence in this volume suggests that learning science at school may be more effective than learning science outside or after school. Students who spend more time learning science at school score higher in science (Table II.6.33), while this is not necessarily the case with students who spend more time learning science after school (Table II.6.38). Students also score higher in science than in mathematics and reading when they spend more time learning science than learning mathematics and the language of instruction at school (Table II.2.29); but this is less true when students spend more time learning science, than learning mathematics and the language of instruction, after school. At the system level, students also score lower in science the more time they spend learning after school (Figure II.6.22).

After-school learning can also be inequitable. This is likely to be the case in education systems, like those in Croatia, Italy, Japan, Korea, Macao (China) and Chinese Taipei, where socio-economically advantaged students tend to spend more time than disadvantaged students learning after school (Table II.6.41). However, after-school study, such as in remedial programmes, can also help to close the performance gap between these two groups of students. To help make after-school learning opportunities more equitable, schools could consider making staff available to help students with homework at school, and providing a room where students can do homework (Table II.6.45).

Ensure that learning time is productive so that students can develop their academic, social and emotional skills in a balanced way

School systems differ widely in how much time students spend learning, particularly after school, and in how this learning time translates into academic performance. For instance, in Japan and Korea, students score similarly in science; however, in Japan, students spend about 41 hours per week learning (28 hours at school and 14 after school), all subjects combined, whereas in Korea they spend 50 hours (30 hours at school and 20 after school) (Figure II.6.23). In Tunisia and in Beijing-Shanghai-Jiangsu-Guangdong (China) (hereafter "B-S-J-G [China]"), students spend 30 hours per week learning at school, and 27 hours after school, but the average science score in B-S-J-G (China) is 531 points whereas in Tunisia it is 367 points. These differences may be indicative, among other things, of the quality of a school system, the necessity of combining learning time with effective teaching, or of whether students can learn informally after school.

Most parents would like to see their kids in schools where they can learn solid academic knowledge and skills but also have enough time to participate in non-academic activities, such as sports, theatre or music, that develop their social and emotional skills and contribute to their well-being. In this sense, Australia, the Czech Republic, Estonia, Finland, Germany, Japan, Macao (China), the Netherlands, New Zealand, Sweden and Switzerland provide a good balance between learning time and academic performance.

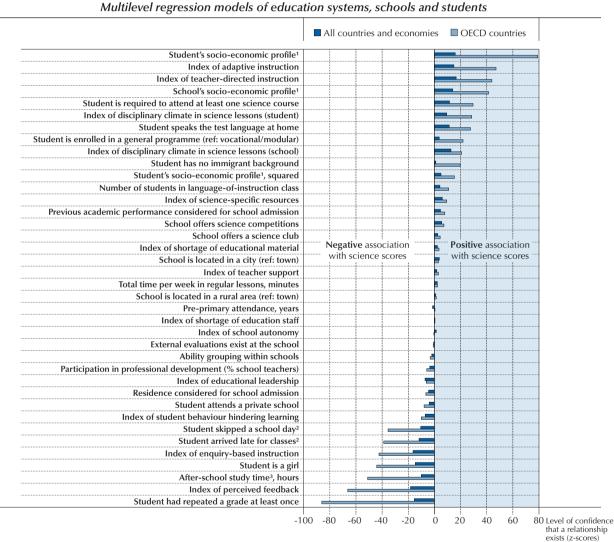


THE MOST AMBITIOUS EDUCATION REFORMS ASPIRE TO CHANGE WHAT HAPPENS INSIDE THE CLASSROOM

What happens inside the classroom is crucial for students' learning and career expectations. How teachers teach science is even more strongly associated with science performance and students' expectations of working in a science-related career than the material and human resources of science departments, including the qualifications of teachers or the kinds of extracurricular science activities offered to students (Figures II.2.21, II.2.22 and II.7.2). For instance, in almost all education systems, students score higher in science when they reported that their science teachers "explain scientific ideas", "discuss their questions" or "demonstrate an idea" more frequently (Table II.2.18). They also score higher in science in almost all school systems when they reported that their science teachers "adapt the lesson to their needs and knowledge" or "provide individual help when a student has difficulties understanding a topic or task" (Table II.2.24).

Figure II.7.2 • Factors associated with science performance

Multilevel regression models of education systems, schools and students



- 1. The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS).
- 2. In the two weeks prior the PISA test.
- 3. Includes homework, additional instruction and private study.

Notes: All variables have been introduced jointly in a three-level regression model.

Statistically significant coefficients have associated z-scores below -1.96 or above 1.96.

The z-scores for «all countries and economies» are generally lower because the uncertainty surrounding the relationships is significantly higher. See Table II.7.1. for results by education system.

Factors are ranked in descending order of the z-scores for OECD countries.

Source: OECD, PISA 2015 Database.

StatLink http://dx.doi.org/10.1787/888933436455



Interestingly, students are more likely to expect to pursue a career in a science-related occupation when they perceive that their science teachers use a greater diversity of teaching strategies, regardless of which they are (Figure II.2.22).

While changing how teachers teach is challenging, school leaders and governments should try to find ways to make teaching more effective. For instance, in some education systems granting schools more autonomy over the curriculum may give teachers more opportunities to adapt their instruction to students' needs and knowledge (Figure II.2.17). In addition, teachers support their students more in countries and economies that separate their students later into different types of schools or education programmes.

Ensure that science laboratory work is meaningful

Experiments and hands-on activities can be inspiring and can help students develop a conceptual understanding of scientific ideas and transferable skills, such as critical thinking. However, the opportunity costs of these instructional methods can be high. Finding the right balance between different learning opportunities is therefore important. Moreover, in order for experiments and hands-on activities to be truly effective, school principals and teachers need to be prepared. Principals need to ensure that the laboratory material is in good shape and that teachers are supported and trained accordingly. Teachers need to design well-structured laboratory activities that make tangible key scientific concepts and ideas, and help students make the links between the hands-on activities, scientific ideas and real-life problems. Students should also be made aware that when participating in these activities, they are manipulating ideas as well as objects (Hofstein and Lunetta, 2004; Woolnough, 1991).

CREATE A POSITIVE LEARNING ENVIRONMENT FOR ALL

PISA shows that students tend to perform better in schools that provide an environment that is conducive to learning. However, the results suggest that learning environments across OECD countries have deteriorated in recent years: more students in 2015 than in 2012 reported that they had skipped a day of school or classes, or had arrived late for school in the two weeks prior to the PISA test (Table II.3.3); and principals were more likely in 2015 than in 2012 to report that teacher and student behaviours hindered student learning (Tables II.3.14 and II.3.19).

In a positive learning environment, everyone plays their part:

- Students attend school regularly, listen to the teacher, treat other students with respect, and do not disrupt the flow
 of instruction.
- Teachers co-operate by exchanging ideas or material and support their students by showing an interest in every student, providing extra help or giving students opportunities to express their ideas.
- The school principal ensures that children with different abilities and from different backgrounds are given the same opportunities to learn, reacts swiftly when behavioural and academic problems arise, and ensures that a range of extracurricular activities are offered at school.
- Parents participate in a range of school activities, not only when their child has behavioural or academic problems, and interact with other parents.
- Governments use assessments and information systems, already in place in most countries and economies, and
 informal mechanisms to identify individual schools that are struggling with student-behaviour problems and may
 need special assistance.

ENCOURAGE SCHOOLS TO USE MULTIPLE TYPES OF ASSESSMENTS

Student assessments serve different purposes, and some assessments are better suited to achieving some goals than others. For instance, standardised tests seem to be used most commonly for comparing schools, awarding certificates to students or monitoring a school's progress from year to year, whereas teacher-developed tests tend to be used more frequently for informing parents about their child's progress, identifying aspects of the instruction that could be improved or guiding student learning (Figures II.4.24 and II.4.25). It is important to combine multiple types of assessments strategically, including traditional written exams designed by teachers, oral tests, teachers' judgements, collaborative problem solving, long-term projects or standardised tests, so that a wide variety of education goals can be fulfilled and students can develop the skills they need for the future (OECD, 2013a). School leaders and teachers should be prepared to design and grade their own assessments, provide fair and balanced judgements, and be comfortable with conducting and interpreting standardised tests.



The PISA test, itself, offers some guidance for schools and teachers (OECD, 2016):

- Develop balanced assessments. In addition to using multiple types of assessments, schools and teachers should ask
 questions in different formats (e.g. open-ended or multiple choice), of varying levels of difficulty, that are set in various
 contexts (e.g. personal, social, global, occupational) and cover the range of skills for a "typical" student.
- Design assessments strategically. For instance, tests can start with easy questions, so that students gain confidence, and leave the most challenging topics for the end.
- Focus on students' abilities and skills. When assessing students, it is always worth asking what type of skills will students need to lead a successful life.
- Be fair. Assess students in ways that are fair and inclusive for everyone, regardless of gender, socio-economic status
 or ability.
- Innovate. New types of assessments are constantly being developed around the world, with varying degrees of success.
 Learn about them by talking to colleagues, participating in innovation networks or researching the web. For instance, reading the PISA assessment questions made public might give some ideas to governments, schools and teachers about how to design assessments.

BUILD A SKILLED AND DEDICATED TEACHER WORKFORCE

Most policy interventions that aspire to have an impact on student learning, such as by changing classroom dynamics or creating a positive learning environment, depend on teachers for their success. The most successful education systems select and retain highly qualified candidates for the teaching profession and ensure that they are constantly improving.

Attract and retain qualified teachers, and ensure that they continue to learn throughout their careers

To build a skilled and effective teacher workforce, school systems need to attract talented graduates into the teaching profession and retain teachers who are skilled, dedicated and effective. In the school systems that have been more successful in attracting and retaining qualified teachers, the following typically happens (OECD, 2014):

- Education and the teaching profession are greatly valued by society.
- Teachers are adequately compensated.
- The teaching career is transparent and clearly structured, and the recruitment process for entering the teaching profession is fair and rigorous.
- Teachers are given many opportunities to learn. Offering professional development activities in-house, for instance by
 organising workshops or inviting specialists to the school, can be a very effective way of engaging teachers (Table II.6.25).
 Teachers are also encouraged to participate in professional development communities and co-operate with their
 colleagues. This can create a stimulating learning environment from which students can benefit greatly (Table II.6.21).
- Teachers receive feedback on their teaching regularly, such as through mentoring programmes organised by schools.

BALANCE SCHOOL AUTONOMY WITH ACCOUNTABILITY, AND DEVELOP CAPACITY AT THE LOCAL LEVEL

In the past decades, a number of changes have occurred in how school systems allocate school-management responsibilities to various actors. While some countries have decentralised decision making related to school operations, giving local actors, such as principals and teachers, more responsibility over a range of budgetary, operational and instructional issues, in other countries, education authorities at the local, regional and national levels gained more control over these matters. The latest results show that, compared to 2009, fewer school principals in 2015 hold considerable responsibility for the school budget, the hiring of teachers or the courses offered at school (Table II.4.4). Principals and teachers are also less responsible for school policies related to assessment, disciplinary actions and school admissions.

Giving schools greater control over these matters has been advocated on the grounds that local actors understand their students' needs better than higher administrative bodies, and thus can make better decisions to improve their students' outcomes (Caldwell and Spinks, 2013; Department of Education, 2010). PISA 2015 offers a nuanced picture of the relationship between greater school autonomy and students' performance, which seems to depend not only on the particular areas of school management delegated to principals and teachers, but also on how these areas are related to certain accountability measures and to the capacity of local actors.



In particular, students score higher in science when principals exercise greater autonomy over resources, curriculum and other school policies, but especially so in countries where achievement data are tracked over time or posted publicly more extensively or when principals show higher levels of educational leadership (Figures II.4.8 to II.413). These findings highlight the interplay between school autonomy and accountability already identified in earlier PISA assessments. When principals lack the preparation and capacity to exercise leadership, transferring authority to schools may inadvertently work against students, since school staff might then be deprived of the resources and expertise available at higher levels of the system. Students also score higher in science in countries where more teachers have autonomy over the curriculum. This finding underscores the importance of tapping into teachers' expertise. Teachers can not only help design and implement rigorous curricula, but they can also adapt content to students of varying ability.

STRIVE TO HAVE EXCELLENT SCHOOLS IN EVERY NEIGHBOURHOOD AND MAKE THEM ACCESSIBLE TO ALL STUDENTS

Some countries, such as the Netherlands and the United Kingdom, have a strong tradition of offering an extensive choice of schools to parents. But in many other education systems, the issue of school choice and competition can be controversial. Advocates of market-based models argue that giving more school choice to parents can improve the quality of education overall, so that, in the end, all parents and students benefit from better schools (Card, Dooley and Payne 2010; Woessmann et al., 2007). But this argument is challenged by those who say that advantaged families might move their children to better schools, resulting in less – and perhaps poorer quality – material and human resources being allocated to neighbourhood public schools, especially if school funding is linked to enrolment (Behrman et al., 2016; Ladd, 2002; Valenzuela, Bellei and Rios, 2014).

In a majority of countries/economies, competition among schools is positively associated with science performance at the school level (Table II.4.14), but school competition does not benefit everyone to the same extent. PISA 2015 shows that in most of the 18 education systems that distributed the parents' questionnaire, more schools are available to families whose children attend advantaged and urban schools than to those whose children are enrolled in disadvantaged and rural schools. Increasing school competition is difficult in some situations, such as in rural areas, and healthy competition implies that parents are well-informed about the options available to them and can choose a school without financial constraints. While parents from all backgrounds cite school reputation as an important consideration when choosing a school for their child, disadvantaged parents are much more likely than advantaged parents to report that they consider "low expenses" to be an important factor when choosing a school (Figures II.4.17 and II.4.18). Allowing parents to choose their child's school can open up a world of opportunities if all families can choose on an equal basis; if not, a world of inequalities can be the result instead.

In most school systems, disadvantaged students are more likely to attend public schools than advantaged students. It is therefore not surprising that across OECD countries, students enrolled in private schools perform better in science than students in public schools (Figures II.4.14). But when students and schools have a similar socio-economic profile, the "advantage" of private schools disappears, except in a handful of countries, and students in public schools in about one in three education systems score higher in science. In other words, the performance advantage of private schools tends to reflect either the more privileged home background of students and their families, or the fact that more privileged students tend to be enrolled in schools with a better instructional climate or better educational resources. PISA shows no clear association between the percentage of students enrolled in public and private schools and a school system's average performance in science (Figure II.4.15).

Nurturing academic excellence for all students might then entail having excellent schools easily accessible in every neighbourhood, providing adequate transportation and reducing the financial burden on parents, particularly those in low-income areas. In systems that offer choice, creating or improving websites or other information systems that provide parents with clear information about schools in their area – such as the schools' academic performance, graduation rates and admissions policy – can be one way to help them navigate the full range of choices available to them. Increasing opportunities for face-to-face discussions between the school community and parents of prospective students, such as open-door events, can also help bridge the information gap between advantaged and disadvantaged families if well planned. Providing incentives for schools, including private schools, to increase the social diversity of their student body might help make the schools more welcoming to all families.



ADJUST THE SIZE OF SCHOOLS AND CLASSES IF FINANCIAL RESOURCES ARE LIMITED

Evidence presented in the volume (Tables II.6.7 and II.6.8) shows that the relationship between school size and student outcomes is not clear-cut. Across OECD countries, students in larger schools score higher in science and are more likely to expect to work in a science-related career than students in smaller schools. But students in smaller schools reported a better disciplinary climate in their science lessons, and they are less likely than students in larger schools to skip days of school and arrive late for school, after accounting for socio-economic status. Previous research also shows ambiguous findings, such that the effect of school size varies across student groups and levels of education, and often changes after certain thresholds are crossed (Box II.6.1). Because deciding the optimal size of schools based on student outcomes alone is not straightforward, the decision should be based to a great extent on financial considerations. Running larger schools, which can benefit from economies of scale, is usually more efficient than running small schools. However, above a certain size there may be negative returns to expansion (Box II.6.1), and sometimes, particularly in rural areas, it might be impossible to increase the number of students in schools without forcing students to endure long commutes or enrolling them in boarding schools.

Even if previous research has pointed to some benefits associated with smaller classes, particularly for disadvantaged and minority students (Dynarski, Hyman and Schanzenbach, 2013), PISA data show that large classes have not prevented schools in East Asia from providing good instruction (II.6.16), and that, across OECD countries, students in large classes tend to score higher (Table II.6.30). Given the high costs associated with smaller classes, governments should seriously consider the opportunity costs of reducing class size.

FAVOUR ADDITIONAL SUPPORT TO STRUGGLING STUDENTS RATHER THAN GRADE REPETITION.

What is the best way of helping struggling students? Retaining students in the same grade for an additional year may be a popular idea among policy makers and educators in many countries, but a growing body of research points to the negative consequences of grade repetition. Students who have repeated a grade tend to display more negative behaviours and attitudes towards school, are more likely to drop out and may be stigmatised among their classmates (Ikeda and García, 2014; Rumberger and Lim, 2008; Thompson and Cunnigham, 2000; West, 2012). Previous PISA findings have already revealed that at the system level, higher rates of grade repetition are associated with lower performance in mathematics and lower levels of equity (OECD, 2013b). PISA 2015 results also show that in education systems where grade repetition is used more extensively, overall science performance is lower and equity is compromised (Figure II.5.4 and Figure II.5.13). From the perspective of an education system as a whole, grade repetition is also a costly policy, requiring an additional year of spending per student with no guaranteed results. In some countries that practice grade repetition, such as Belgium and the Netherlands, the additional cost per repeater can be as high as USD 48 900 or more. And the total cost of grade repetition can represent 10% or more of these countries' annual national expenditure on primary and secondary education (OECD, 2013b).

Fortunately, there has been notable progress on this front. Between 2009 and 2015, grade repetition rates in 30 countries dropped – and by at least 10 percentage points in Costa Rica, France, Indonesia, Latvia, Macao (China), Malta, Mexico and Tunisia (Table II.5.11). In fact, France reduced its grade repetition rate by 16 percentage points during this period while maintaining OECD average levels of performance in science in 2015. Further improvement can be achieved in many countries, especially among subgroups of students that seem to be unfairly targeted for grade repetition. Across OECD countries, boys, disadvantaged students and those with an immigrant background are significantly more likely to have repeated a grade at least once in primary or secondary school, even when they perform similarly and have similar motivation and attitudes towards learning as their peers who had not repeated a grade (Table II.5.13). These findings clearly show that grade repetition is a costly policy that is applied in ways that are neither objective nor equitable in many school systems.

It may be difficult for school systems to identify those cases where students are retained unfairly, so setting ambitious goals to reduce the use of such practices throughout the system may help limit abuses. But struggling students still need support. Additional guidance and learning time inside or outside of school, accompanied by the establishment of clear, challenging and achievable goals can help. Curricula are usually designed to be followed by all students. But designing individualised learning plans may allow students who are struggling to learn the material and to progress at their own pace, ultimately meeting the standards set for all students, but over a longer period of time.



DELAY THE AGE AT SELECTION INTO DIFFERENT EDUCATION PROGRAMMES

Countries that offer a variety of education programmes as part of compulsory education, such as general/academic, pre-vocational, vocational or technical programmes, are probably familiar with research evidence showing that sorting students into different tracks may exacerbate social and economic segregation and increase inequality (Hanushek and Woessmann, 2005; Maaz et al., 2008). These concerns are justified, as disadvantaged students tend to be disproportionally represented in vocational programmes (Figure II.5.9).

PISA results show that the age at which students are streamed into various tracks is associated not only with greater performance discrepancies between schools (low academic inclusion), but also with less equity in science performance (Figures II.5.11 and II.5.13). In short, in countries where students are sorted into tracks at an early age (early tracking), the socio-economic status of students has a greater impact on students' scores in science compared with countries where tracking is delayed to a later age.

Why do systems that delay the age of tracking tend to have more equitable outcomes? Is selection into different programmes subject to teachers' biases? Are vocational programmes under-resourced compared to general programmes? Is early selection limiting the learning opportunities and career choices of "late bloomers"? Do students in some tracks lack the kind of social, academic and cultural diversity that makes for a stimulating learning environment? Although PISA data do not allow for an investigation into the underlying causes behind these differences, the findings on system stratification provide some insights into some factors that countries may wish to consider when confronted with the challenge of reducing inequalities among schools and students.

Providing a challenging and rich curriculum in all tracks; delaying the age at selection into different programmes; introducing flexibility into the system so students can transfer between programmes; and offering pathways to higher education to all students are just some of the ways that countries can mitigate undesirable consequences of early tracking.

PROVIDE ACCESS TO QUALITY EARLY EDUCATION FOR ALL CHILDREN

PISA shows that, across OECD countries, students who had attended pre-primary school tend to perform better at the age of 15 than students who had not attended, even after accounting for students' socio-economic status (Table II.6.52). It is not possible to ascertain, though, whether this is an effect of the learning opportunities provided in early childhood education or simply mirrors selection. The data also show that many students had attended pre-school for less than one year, and in almost every school system, these students are more likely to be disadvantaged (Tables II.6.50 and II.6.51). In Croatia, the Dominican Republic, Lithuania, Montenegro, Portugal and Turkey, for instance, at least one in five students had attended pre-primary school for less than a year. Providing access to early education for all children can be accomplished by passing legislation that gives every child the right to participate in pre-primary education, by developing or subsidising a network of free pre-primary education centres to ease the financial burden on disadvantaged families, and by providing information and guidance to parents.

ABOVE ALL, PROVIDE ADDITIONAL SUPPORT TO DISADVANTAGED SCHOOLS

Achieving equity in education means ensuring that students' socio-economic status has little to do with learning outcomes. Learning should not be hindered by whether a child comes from a poor family, has an immigrant background, is raised by a single parent or has limited resources at home, such as no computer or no quiet room for studying. Successful education systems understand this and have found ways to allocate resources so as to level the playing field for students who lack the material and human resources that students in advantaged families enjoy. When more students learn, the whole system benefits. This is an important message revealed by PISA results: in countries and economies where more resources are allocated to disadvantaged schools, overall student performance in science is somewhat higher (Figure II.6.4).

PISA data uncover a number of differences between disadvantaged and advantaged schools, both quantitative and qualitative, that collectively paint a picture of the drastically different learning environments in these distinct types of schools. Disadvantaged schools have fewer qualified science teachers and are less likely to require students to attend science classes (Tables II.2.3 and II.2.6). Their students not only spend less time in regular lessons than students in advantaged schools (Table II.6.36), they are also less exposed to quality teaching. For example, teachers in their schools are less likely to engage in some effective teaching strategies, such as explaining or demonstrating a scientific idea (Table II.2.17). The range of learning opportunities beyond regular classes is also much narrower in disadvantaged schools, as these schools tend to offer fewer extracurricular activities, such as science competitions and clubs, sports, and music



and arts activities (Tables II.2.12, II.2.13 and II.6.49). Disadvantaged schools also tend to be subject to more disciplinary problems and a lack of student engagement, manifested in students arriving late for school or skipping days of school, which compromise students' opportunities to learn and to do well in school (Tables II.3.4, II.3.6 and II.3.11). Some of these differences between disadvantaged and advantaged schools are magnified in countries that practice early tracking.

Compensatory measures are essential and, in many ways, they are already in place in various countries. But further steps need to be taken. For example, it is not enough for disadvantaged schools to have more computers per student; these computers need to be connected to the Internet and, more important, they need to be used in a way that improves learning, not distracts from it. It is not enough for students in these schools to spend more time studying after school; they also need more time in regular lessons with better teaching, which is what their counterparts in advantaged schools already have. And they need more support after class, too, in the form of tutoring, and in enriching extracurricular activities.

PISA findings help countries identify some of these deficiencies, but policy makers are left with the hard work of finding the best ways to address them. Solutions will vary depending on the nature of the gaps. For example, in some education systems, like those in Ciudad Autónoma de Buenos Aires (Argentina), Georgia, Lebanon, Macao (China), Mexico or Thailand, policy makers might try to achieve a better distribution of material resources. In others, such as Australia, B-S-J-G (China), New Zealand, Spain or Uruguay, a better allocation of human resources seems to be a priority.

Even when different schools face similar problems, tailored solutions that capitalise on assets already in place may be needed; and progress towards learning goals should be continuously monitored. Countries should also watch for practices that could undermine the equity of their system. For example, in countries and economies where students in advantaged schools spend more time studying after school, such as Croatia, Italy, Japan, Korea, Macao (China) and Chinese Taipei, the performance disparities between disadvantaged and advantaged schools may well increase. Governments may need to provide additional resources for free-of-charge tutoring in disadvantaged schools so as to prevent the development of a shadow education system – and to ensure equity in education opportunities.



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PISA 2015 TECHNICAL BACKGROUND

All tables in Annex A are available on line

Annex A1: Construction of indices, trends and missing observations

Annex A2: The PISA target population, the PISA samples

and the definition of schools

http://dx.doi.org/10.1787/888933433129

Annex A3: Technical notes on analyses in this volume

Annex A4: Quality assurance

Annex A5: Changes in the administration and scaling of PISA 2015

and implications for trends analyses

Annex A6: System-level data collection for PISA 2015: Sources,

comments and technical notes

Annex A7: Guidelines and caveats about interpreting the results

Note regarding B-S-J-G (China)

B-S-J-G (China) refers to the four PISA participating China provinces: Beijing, Shanghai, Jiangsu, Guangdong.

Note regarding CABA (Argentina)

CABA (Argentina) refers to the Ciudad Autónoma de Buenos Aires, Argentina.

Note regarding FYROM

FYROM refers to the Former Yugoslav Republic of Macedonia.

Notes regarding Cyprus

Note by Turkey: The information in this document with reference to "Cyprus" relates to the southern part of the Island. There is no single authority representing both Turkish and Greek Cypriot people on the Island. Turkey recognises the Turkish Republic of Northern Cyprus (TRNC). Until a lasting and equitable solution is found within the context of the United Nations, Turkey shall preserve its position concerning the "Cyprus issue".

Note by all the European Union Member States of the OECD and the European Union: The Republic of Cyprus is recognised by all members of the United Nations with the exception of Turkey. The information in this document relates to the area under the effective control of the Government of the Republic of Cyprus.

A note regarding Israel

The statistical data for Israel are supplied by and under the responsibility of the relevant Israeli authorities. The use of such data by the OECD is without prejudice to the status of the Golan Heights, East Jerusalem and Israeli settlements in the West Bank under the terms of international law.



ANNEX A1

CONSTRUCTION OF INDICES, TRENDS AND MISSING OBSERVATIONS

Explanation of the indices

This section explains the indices derived from the student and school context questionnaire for PISA 2015 used in this volume.

Several PISA measures reflect indices that summarise responses from students, their parents, teachers or school representatives (typically principals) to a series of related questions. The questions were selected from a larger pool of questions on the basis of theoretical considerations and previous research. The *PISA 2015 Assessment and Analytical Framework* (OECD, 2016) provides an in-depth description of this conceptual framework. Structural equation modelling was used to confirm the theoretically expected behaviour of most indices and to validate their comparability across countries. For this purpose, a model was estimated separately for each country and collectively for all OECD countries. For a detailed description of other PISA indices and details on the methods, see *PISA 2015 Technical Report* (OECD, forthcoming).

There are two types of indices used in this volume: simple indices and scale indices.

Simple indices are the variables that are constructed through the arithmetic transformation or recoding of one or more items, in exactly the same way across assessments. Here, item responses are used to calculate meaningful variables, such as the recoding of the four-digit ISCO-08 codes into "Highest parents' socio-economic index (HISEI)" or, teacher-student ratio based on information from the school questionnaire.

Scale indices are the variables constructed through the scaling of multiple items. Unless otherwise indicated, the index was scaled using a two-parameter item response model (a generalised partial credit model was used in the case of items with more than two categories) and values of the index correspond to Warm likelihood estimates (WLE) (Warm, 1985). For details on how each scale index was constructed see the *PISA 2015 Technical Report* (OECD, forthcoming). In general, the scaling was done in three stages:

- 1. The item parameters were estimated from equally-weighted samples of students from all countries and economies; only cases with a minimum number of three valid responses to items that are part of the index were included.
- The estimates were computed for all students and all schools by anchoring the item parameters obtained in the preceding step.
- 3. The warm likelihood estimates were then standardised so that the mean of the index value for the OECD student population was zero and the standard deviation was one (countries being given equal weight in the standardisation process).

Sequential codes were assigned to the different response categories of the questions in the sequence in which the latter appeared in the student, school or parent questionnaires. Where indicated in this section, these codes were inverted for the purpose of constructing indices or scales. Negative values for an index do not necessarily imply that students responded negatively to the underlying questions. A negative value merely indicates that the respondents answered less positively than all respondents did on average across OECD countries. Likewise, a positive value on an index indicates that the respondents answered more favourably, or more positively, than respondents did, on average, in OECD countries. Terms enclosed in brackets < > in the following descriptions were replaced in the national versions of the student, school and parent questionnaires by the appropriate national equivalent. For example, the term <qualification at ISCED level 5A> was translated in the United States into "Bachelor's degree, post-graduate certificate program, Master's degree program or first professional degree program". Similarly the term <classes in the language of assessment> in Luxembourg was translated into "German classes" or "French classes" depending on whether students received the German or French version of the assessment instruments.

In addition to simple and scaled indices described in this annex, there are a number of variables from the questionnaires that were used in this volume and correspond to single items not used to construct indices. These non-recoded variables have prefix of "ST" for the questionnaire items in the student questionnaire and "SC" for the items in the school questionnaire. All the context questionnaires as well as the PISA international database, including all variables, are available through www.oecd.org/pisa.

Student-level simple indices

Student age

The age of a student (AGE) was calculated as the difference between the year and month of the testing and the year and month of a student's birth. Data on student's age were obtained from both the questionnaire (ST003) and the student tracking forms. If the month of testing was not known for a particular student, the median month for that country was used in the calculation.



Immigration background

The PISA database contains three country-specific variables relating to the students' country of birth, their mother and father (COBN_S, COBN_M, and COBN_F). The items ST019Q01TA, ST019Q01TB and ST019Q01TC were recoded into the following categories: (1) country of birth is the same as country of assessment and (2) other. The index of immigrant background (IMMIG) was calculated from these variables with the following categories: (0) non-immigrant students (those students who had at least one parent born in the country), (1) first- and second-generation immigrant students (those born in the country of assessment but whose parent(s) were born in another country or those born outside the country of assessment and whose parents were also born in another country). Students with missing responses for either the student or for both parents were assigned missing values for this variable.

Language spoken at home

Students indicated what language they usually speak at home (ST022), and the database includes a derived variable (LANGN) containing a country-specific code for each language. In addition, an internationally comparable variable was derived from this information with the following categories: (1) language at home is the same as the language of assessment for that student and (2) language at home is another language.

Relative grade

The relative grade index (GRADE) indicates whether students are in a country's modal grade (value of 0) or whether they are below or above the modal grade (+x grades, -x grades). The information about the students' grade level was taken from the student questionnaire (ST001) and the modal grade was defined by the country and documented in the Student Tracking Form.

Grade repetition

The grade repetition variable (REPEAT) was computed by recoding variables ST127Q01TA, ST127Q02TA, and ST127Q03TA. REPEAT took the value of "1" if the student had repeated a grade in at least one ISCED level and the value of "0" if "no, never" was chosen at least once, given that none of the repeated grade categories were chosen. The index is assigned a missing value if none of the three categories were ticked in any levels.

Study programme

PISA collects data on study programmes available to 15-year old students in each country. This information is obtained through the student tracking form and the Student Questionnaire. In the final database, all national programmes are included in a separate derived variable (PROGN) where the first six digits represent the National Centre code, and the last two digits are the nationally specific programme code. All study programmes were classified using the International Standard Classification of Education (ISCED) (OECD, 1999). The following indices were derived from the data on study programmes:

- Programme level (ISCEDL) indicates whether students were at the lower or upper secondary level (ISCED 2 or ISCED 3);
- Programme orientation (ISCEDO) indicates whether the programme's curricular content was general, pre-vocational or vocational.

Learning time

Learning time in test language regular lessons (LMINS) was computed by multiplying the number of minutes on average in the test language class by number of test language class periods per week (ST061 and ST059). Comparable indices were computed for mathematics (MMINS) and science (SMINS). Learning time in total (TMINS) was computed using information about the average minutes in a <class period> (ST061) in relation to information about the number of class periods per week attended in total (ST060). For convenience purposes, the information on learning time is presented in hours.

Out-of-school study time

Students were asked in a slider-format question how much time they spent studying in addition to their required school schedule (ST071). The index OUTHOURS was computed by summing the time spent studying for different school subjects.

Early childhood education and care

Questions ST125 and ST126 measure the starting age in ISCED 1 and ISCED 0. A difference score of the two indicates the number of years a student spent in early childhood education and care (DURECEC). This information was combined with the answer "I did not attend ISCED 0" from ST125 to measure the number of years that students attended early childhood education and care.

Science-related career expectations

Students were asked, in PISA 2015, to answer a question (ST114) about "what kind of job [they] expect to have when [they] are about 30 years old". Answers to this open-ended question were coded to four-digit ISCO codes (ILO, 2007), in variable OCOD3. This variable was used to derive the index of science-related career expectations.



Science-related career expectations are defined as those career expectations whose realisation requires further engagement with the study of science beyond compulsory education, typically in formal tertiary education settings. The classification of careers into science-related and non-science-related is based on the four-digit ISCO-08 classification of occupations.

Only professionals (major ISCO group 2) and technicians/associate professionals (major ISCO group 3) were considered to fit the definition of science-related career expectations. In a broad sense, several managerial occupations (major ISCO group 1) are clearly science-related: these include research and development managers, hospital managers, construction managers, and other occupations classified under production and specialised services managers (submajor group 13). However, it was considered that when science-related experience and training is an important requirement of a managerial occupation, these are not entry-level jobs and 15-year-old students with science-related career expectations would not expect to be in such a position by age 30.

Several skilled agriculture, forestry and fishery workers (major ISCO group 6) could also be considered to work in science-related occupations. The United States O*NET OnLine (2016) classification of science, technology, engineering and mathematics (STEM) occupations indeed include these occupations. These, however, do not typically require formal science-related training or study after compulsory education. On these grounds, only major occupation groups that require ISCO skill levels 3 and 4 were included among science-related occupational expectations.

Among professionals and technicians/associate professionals, the boundary between science-related and non-science related occupations is sometimes blurred, and different classifications draw different lines.

The classification used in this report includes four groups of jobs:¹

- 1. Science and engineering professionals: All science and engineering professionals (submajor group 21), except product and garment designers (2163), graphic and multimedia designers (2166).
- 2. *Health professionals*: All health professionals in submajor group 22 (e.g. doctors, nurses, veterinarians), with the exception of traditional and complementary medicine professionals (minor group 223).
- 3. ICT professionals: All information and communication technology professionals (submajor group 25).
- 4. Science technicians and associate professionals, including:
 - physical and engineering science technicians (minor group 311)
 - life science technicians and related associate professionals (minor group 314)
 - air traffic safety electronic technicians (3155)
 - medical and pharmaceutical technicians (minor group 321), except medical and dental prosthetic technicians (3214)
 - telecommunications engineering technicians (3522).

How this classification compares to existing classifications

When three existing classifications of 15-year-olds' science career expectations, all based on the International Standard Classification of Occupations (ISCO), 1988 edition (ISCO-88), are compared to the present classification, based on ISCO-08, a few differences emerge. Some are due to the updated version of occupational codings (as discussed in the next section); the remaining differences are summarised in Table A1.1.

Developing a comparable classification for ISCO-88

The same open-ended question was also included in the PISA 2006 questionnaire (ID in 2006: ST30), but students' answers were coded in the PISA 2006 database according to ISCO-88. It is not possible to ensure a strictly comparable classification. To report changes over time, the correspondence described in Table A1.2 was used to derive a similar classification based on PISA 2006 data.

The main differences between ISCO-88 and ISCO-08, for the purpose of deriving the index of science-related career expectations, are the following:

- Medical equipment operators (ISCO-88: 3133) correspond to medical imaging and therapeutic equipment technicians in ISCO-08; air traffic safety technicians (ISCO-88: 3145) correspond to air traffic safety electronics technicians in ISCO-08; building and fire inspectors (ISCO-88: 3151) mostly correspond to civil engineering technicians in ISCO-08.
- Dieticians and nutritionists (ISC0-88: 3223) are classified among professionals in ISCO-08. For consistency, this ISCO-88 occupation was classified among health professionals.
- Physiotherapists and related associate professionals (ISCO-88: 3226) form two distinct categories in ISCO-08, with physiotherapists classified among professionals. Given that students who expect to work as physiotherapists far outnumber those who expect to work as related associate professionals, this ISCO-88 occupation was classified among health professionals.



- Several health-related occupations classified as "modern health associate professionals" in ISCO-88 are included among health professionals in ISCO-08 (e.g. speech therapist, ophthalmic opticians). While health professionals are, in general, included among science-related careers, health associate professionals are not included among science-related careers. In applying the classification to ISCO-88, the entire code was excluded from science-related careers.
- Telecommunications engineering technicians (ISCO-08: 3522) do not form a separate occupation in ISCO-88, where they
 can be found among electronics and telecommunications engineering technicians (ISCO-88: 3114).
- Information and communication technology professionals form a distinct submajor group (25) in ISCO-08 but are classified among physical, mathematical and engineering science professionals in ISCO-88.

Table A1.1 • Differences in the definition of science-related career expectations

	This classification	OECD (2007)	Sikora and Pokropek (2012)	Kjærnsli and Lie (2011)
Science-related managerial jobs	out	in	in	out
Psychologists	out	in	in	out
Sociologists and social work professionals	out	in	out	out
Photographers and image and sound recording equipment operators, broadcasting and telecommunications equipment operators	out	in	in	out
Statistical, mathematical and related associate professionals	out	out	in	out
Aircraft controllers (e.g. pilots, air traffic controllers)	out	in	in	out
Ship controllers (Ships' desk officers, etc.)	out	out	in	out
Medical assistants, dental assistants, veterinary assistants, nursing and midwifery associate professionals	out	in	in	out
Computer assistants, computer equipment operators and industrial robot controllers	out	out	out	in
Air traffic safety electronic technicians	in	in	in	out
Pharmaceutical technicians and assistants	in	in	in	out
Dieticians and nutritionists	in	in	in	out

Table A1.2 ■ ISCO-08 to ISCO-88 correspondence table for science-related career expectations

Group	ISCO-08	ISCO-88		
Science and engineering professionals	21xx (except 2163 and 2166)	21xx (except 213x), 221x		
Health professionals	22xx (except 223x)	22xx (except 221x), 3223, 3226		
ICT professionals	25xx	213x		
Science technicians and associate professionals	311x, 314x, 3155, 321x (except 3214), 3522	311x, 3133, 3145, 3151, 321x, 3228		

Student-level scale indices

Epistemic beliefs about science

The index of epistemic beliefs about science (EPIST) was constructed using students' responses to a new question developed for PISA 2015 about students' views on scientific approaches (ST131). Students reported, on a four-point Likert scale with the answering categories "strongly disagree", "disagree", "agree", and "strongly agree", their agreement with the following statements: A good way to know if something is true is to do an experiment; Ideas in
broad science> sometimes change; Good answers are based on evidence from many different experiments; It is good to try experiments more than once to make sure of your findings; Sometimes
broad science> scientists change their minds about what is true in science; The ideas in
broad science> science books sometimes change. Higher levels of the index correspond to greater levels of agreement with these statements.



Sense of belonging

The index of sense of belonging (BELONG) was constructed using students' responses to a trend question about their sense of belonging to school. Students reported, on a four-point Likert scale with the answering categories "strongly agree", "agree", "disagree", and "strongly disagree", their agreement with the following statements (ST034): I feel like an outsider (or left out of things) at school; I make friends easily at school; I feel like I belong at school; I feel awkward and out of place in my school; Other students seem to like me; I feel lonely at school. The answers to three items were reversed-coded so that higher values in the index indicate a greater sense of belonging.

Science learning in school

PISA 2015 focussed on science learning in school by including several questions about the learning environment in science lessons. They asked how often specific activities happened in the school science course. The questions were used to create the following indices: teacher-directed instruction, perceived feedback, adaptive instruction, enquiry-based instruction, teacher support to students and disciplinary climate. Higher values in these indices indicate that the activities happened more frequently in science lessons.

Teacher-directed instruction

The index of teacher-directed instruction (TDTEACH) was constructed from students' reports on how often ("never or almost never"; "some lessons"; "many lessons"; "every lesson or almost every lesson") the following happened in their science lessons (ST103): The teacher explains scientific ideas; A whole class discussion takes place with the teacher; The teacher discusses our questions; The teacher demonstrates an idea.

Perceived feedback

The index of perceived feedback (PERFEED) was constructed from students' reports on how often ("never or almost never"; "some lessons"; "many lessons"; "every lesson or almost every lesson") the following happened in their science lessons (ST104): The teacher tells me how I am performing in this course; The teacher gives me feedback on my strengths in this <school science> subject; The teacher tells me in which areas I can still improve; The teacher tells me how I can improve my performance; The teacher advises me on how to reach my learning goals.

Adaptive instruction

The index of adaptive instruction (ADINST) was constructed from students' reports on how often ("never or almost never"; "some lessons"; "many lessons"; "every lesson or almost every lesson") the following happened in their science lessons (ST107): The teacher adapts the lesson to my class's needs and knowledge; The teacher provides individual help when a student has difficulties understanding a topic or task; The teacher changes the structure of the lesson on a topic that most students find difficult to understand.

Enquiry-based instruction

The index of enquiry-based instruction (IBTEACH) was constructed from students' reports on how often ("in all lessons"; "in most lessons"; "in some lessons"; "never or hardly ever") the following happened in their science lessons (ST098): Students are given opportunities to explain their ideas; Students spend time in the laboratory doing practical experiments; Students are required to argue about science questions; Students are asked to draw conclusions from an experiment they have conducted; The teacher explains how a science idea can be applied to a number of different phenomena; Students are allowed to design their own experiments; There is a class debate about investigations; The teacher clearly explains the relevance of science concepts to our lives; Students are asked to do an investigation to test ideas.

Teacher support to students

The index of teacher support (TEACHSUP) was constructed from students' reports on how often ("every lesson", "most lessons", "some lessons", "never or hardly ever") the following happened in their science lessons (ST100): The teacher shows an interest in every student's learning; The teacher gives extra help when students need it; The teacher helps students with their learning; The teacher continues teaching until students understand the material; The teacher gives students an opportunity to express their opinions.

Disciplinary climate

The index of disciplinary climate (DISCLISCI) was constructed from students' reports on how often ("every lesson", "most lessons", "some lessons", "never or hardly ever") the following happened in their science lessons (ST097): The teacher shows an interest in every student's learning; The teacher gives extra help when students need it; The teacher helps students with their learning; The teacher continues teaching until students understand the material; The teacher gives students an opportunity to express their opinions.

Achievement motivation

The index of achievement motivation (MOTIVAT) was constructed using students' responses to a new question developed for PISA 2015 (ST119). Students reported, on a four-point Likert scale with the answering categories "strongly disagree", "disagree", "agree", and "strongly agree", their agreement with the following statements: I want top grades in most or all of my courses;



I want to be able to select from among the best opportunities available when I graduate; I want to be the best, whatever I do; I see myself as an ambitious person; I want to be one of the best students in my class. Higher values indicate that students have greater achievement motivation.

Scaling of indices related to the PISA index of economic social and cultural status

The PISA index of economic, social and cultural status (ESCS) was derived, as in previous cycles, from three variables related to family background: highest parental education (PARED), highest parental occupation (HISEI), and home possessions (HOMEPOS) including books in the home. PARED and HISEI are simple indices, described above. HOMEPOS is a proxy measure for family wealth.

Household possessions

In PISA 2015, students reported the availability of 16 household items at home (ST011) including three country-specific household items that were seen as appropriate measures of family wealth within the country's context. In addition, students reported the amount of possessions and books at home (ST012, ST013).

HOMEPOS is a summary index of all household and possession items (ST011, ST012 and ST013). The home possessions scale for PISA 2015 was computed differently than in the previous cycles, to align the IRT model to the one used for all cognitive and non-cognitive scales. Categories for the number of books in the home are unchanged in PISA 2015. The ST011-Items (1="yes", 2="no") were reverse-coded so that a higher level indicates the presence of the indicator.

Computation of ESCS

For the purpose of computing the PISA index of economic, social and cultural status (ESCS), values for students with missing PARED, HISEI or HOMEPOS were imputed with predicted values plus a random component based on a regression on the other two variables. If there were missing data on more than one of the three variables, ESCS was not computed and a missing value was assigned for ESCS.

The PISA index of economic, social and cultural status was derived from a principal component analysis of standardised variables (each variable has an OECD mean of zero and a standard deviation of one), taking the factor scores for the first principal component as measures of the PISA index of economic, social and cultural status. All countries and economies (both OECD and partner countries/economies) contributed equally to the principal component analysis, while in previous cycles, the principal component analysis was based on OECD countries only. However, for the purpose of reporting the ESCS scale has been transformed with zero being the score of an average OECD student and one being the standard deviation across equally weighted OECD countries.

Principal component analysis was also performed for each participating country or economy separately, to determine to what extent the components of the index operate in similar ways across countries or economy.

School-level simple indices

School type

Schools are classified as either public or private according to whether a private entity or a public agency has the ultimate power for decision making concerning its affairs (SC013). As in previous PISA surveys, the index on school type (SCHLTYPE) has three categories, based on two questions: SC013 which asks if the school is a public or a private school, and SC016 which asks about the sources of funding. This index was calculated in 2015 and in all previous cycles.

School size

The index of school size (SCHSIZE) contains the total enrolment at school. It is based on the enrolment data provided by the school principal, summing the number of girls and boys at a school (SC002).

Class Size

The average class size (CLSIZE) is derived from one of nine possible categories in question SC003, ranging from "15 students or fewer" to "more than 50 students".

Availability of computers

School principals were asked to report the number of computers available at school (SC004). The index of availability of computers (RATCMP1) is the ratio of computers available to 15-year olds for educational purposes to the total number of students in the modal grade for 15-year olds. The index of computers connected to the Internet was calculated as the percentage of computers available to 15-year olds for educational purposes that are connected to the Internet.

Responsibilities for school governance

The index of school autonomy (SCHAUT) is calculated as the percentage of tasks included in SC010 (yes/no questions) for which the principal, the teachers or the school governing board have considerable responsibility.



The answers to question SC010 were also recoded so that the responsibilities of the five actors – principals, teachers, school boards, local/regional authorities and national authorities – add to a fixed number within each school – for convenience, 100. For instance, if a principal reports that only teachers have considerable responsibility for selecting course content, then they are assigned a value of 100. If they reported that both teachers and principals have considerable responsibility, then each receives a value of 50. If, according to the principal, the responsibility is shared among principals, teachers and a school board, then each actor is given a value of 33, and so on. The values of these derived variables can be interpreted as the percentage of responsibility held by a given actor. The responsibilities related to resources (selecting teachers for hire; firing teachers; establishing teachers' starting salaries; determining teachers' salary increases; formulating the school budget; deciding on budget allocations within the school) and curriculum (choosing which textbooks are used; determining course content; deciding which courses are offered) were grouped.

Quantity of teaching staff at school

Principals were asked to report the total number of teachers at their school (TOTAT) and provide additional information on how many of the staff was full-time and part-time employed teachers qualified at different ISCED levels (SC018).

The proportion of fully certified teachers (PROATCE) was computed by dividing the number of fully certified teachers by the total number of teachers.

The student-teacher ratio (STRATIO) was obtained by dividing the number of enrolled students (SC002) by the total number of teachers (TOTAT).

An additional question (SC019) asked about the number of science teachers at the school, including information about full-time or part-time employment and the respective ISCED level qualification of these science teachers.

The proportion of fully certified science teachers (PROSTCE) was computed by dividing the number of fully certified science teachers by the total number of teachers.

The proportion of science teachers with an ISCED 5A qualification and a major in science (PROSTMAS) was calculated by dividing the number of these teachers by the total number of science teachers.

Extracurricular activities at school

School principals were asked to report what extracurricular activities their schools offered to 15-year old students (SC053). The index of creative extracurricular activities at school (CREACTIV) was computed as the total number of the following activities that occurred at school: band, orchestra or choir; school play or school musical; art club or art activities.

Science-specific resources

A new index of science-specific resources (SCIERES) was constructed using principals' responses to a series of statements about the school science department. It was constructed by summing up the principals' answers to the eight statements in SC059 (yes/no question).

School efforts to involve parents

The index of school efforts to involve parents (SCHEFFPAR) is the percentage of the of the following statements in SC063 that apply to the school: Our school provides a welcoming and accepting atmosphere for parents to get involved; Our school designs effective forms of school-to-home and home-to-school communications about school programmes and children's progress; Our school includes parents in school decisions; Our school provides information and ideas for families about how to help students at home with homework and other curriculum-related activities, decisions, and planning.

School-level scale indices

School resources

PISA 2015 included a question with eight items about school resources, measuring the school principals' perceptions of potential factors hindering the provision of instruction at school ("Is your school's capacity to provide instruction hindered by any of the following issues?"). The four response categories were "not at all", "very little", "to some extent", and "a lot". A similar question was used in previous cycles, but items were reduced and reworded for 2015 focusing on two derived variables. The index on staff shortage (STAFFSHORT) was derived from the four items: a lack of teaching staff; inadequate or poorly qualified teaching staff; a lack of assisting staff; inadequate or poorly qualified assisting staff. The index of shortage of educational material (EDUSHORT) was scaled using the following four items: a lack of educational material (e.g. textbooks, IT equipment, library or laboratory material); inadequate or poor quality educational material (e.g. textbooks, IT equipment, library or laboratory material); a lack of physical infrastructure (e.g. building, grounds, heating/cooling, lighting and acoustic systems); inadequate or poor quality physical infrastructure (e.g. building, grounds, heating/cooling, lighting and acoustic systems). Positive values on these indices mean that schools principals view the amount and/or quality of resources in their schools as an obstacle to providing instruction to a greater extent than the OECD average.



Educational leadership

A question on school leadership was developed for PISA 2012 and partially taken up again for PISA 2015. Question SC009 with 13 items asks about school leadership. The results provided data for five scaled indices. Principals were asked to indicate the frequency of the listed activities and behaviours in their school during the last academic year. The six response categories were "did not occur", "1-2 times during the year", "3-4 times during the year", "once a month", "once a week", and "more than once a week". Higher values in these indices indicate that these activities and behaviours occur more frequently.

The overall scale for leadership (LEAD) consists of all 13 items.

The index LEADCOM reflects how school's goals and curricular development are framed and communicated and is based on four items: I use student performance results to develop the school's educational goals; I make sure that the professional development activities of teachers are in accordance with the teaching goals of the school; I ensure that teachers work according to the school's educational goals; I discuss the school's academic goals with teachers at faculty meetings.

The index reflecting instructional leadership (LEADINST) is based on three items: I promote teaching practices based on recent educational research; I praise teachers whose students are actively participating in learning; I draw teachers' attention to the importance of pupils' development of critical and social capacities.

The index on how instructional improvements and professional development are promoted by the principal (LEADPD) is based on three items: When a teacher has problems in his/her classroom, I take the initiative to discuss matters; I pay attention to disruptive behaviour in classrooms; When a teacher brings up a classroom problem, we solve the problem together.

The index of teacher participation in leadership (LEADTCH) is based on three items: I provide staff with opportunities to participate in school decision-making; I engage teachers to help build a school culture of continuous improvement; I ask teachers to participate in reviewing management practices.

School climate

The school questionnaire included a trend question on school climate (SC061) that had been used in previous cycles with a larger set of items. It measured the school principals' perceptions of the school climate, in particular his or her perceptions of teacher and student behaviour that might hinder student learning. The four response categories were "not at all", "very little", "to some extent" and "a lot". For PISA 2015, the items were rearranged to reflect student behaviour (STUBEHA) and teacher behaviour (TEACHBEHA) hindering learning. The index of student behaviour hindering learning is based on five items: student truancy; students skipping classes; students lacking respect for teachers; students using alcohol or illegal drugs; students intimidating or bullying other students. The index of teacher behaviour hindering learning is based on five items: teachers not meeting individual students' needs; teacher absenteeism; staff resisting change; teachers being too strict with students; teachers not being well-prepared for classes.

Simple indices from the parent questionnaire Index of parental involvement in school-related activities

The index of parental involvement in school-related activities is the number of questions, or activities, in PA008 to which parents answered "yes", ranging from zero to ten activities. Question PA008 includes the following school-related activities: I discussed my child's behaviour with a teacher on my own initiative; I discussed my child's behaviour on the initiative of one of his/her teachers; I discussed my child's progress with a teacher on my own initiative; I discussed my child's progress on the initiative of one of his/her teachers; I participated in local school government; I volunteered in physical or extracurricular activities; I volunteered to support school activities; I attended a scheduled meeting or conferences for parents; I talked about how to support learning at home and homework with my child's teachers; I exchanged ideas on parenting, family support, or my child's development with my child's teachers.

Year of reference for the trends in resources, policies and practices

Resources, policies and practices are compared between PISA 2015 and previous PISA cycles throughout the report. For instance, the trends for student truancy are presented in chapter 3, those for educational responsibilities and school types are included in chapter 4, the trends for grade repetition, programme orientation and ability grouping are shown in chapter 5, and those for class size and student-teacher ratios are included in chapter 6. Whenever possible, the report compares PISA 2015 to PISA 2006 since science was the core subject in both cycles. However, PISA 2015 is compared to more recent cycles when the questions were not included in the PISA 2006 questionnaires, the wording of the questions changed (even slightly), or the number/order of the items within each question changed substantively between cycles.

Proportion of missing observations for variables used in this volume

Unless otherwise indicated, no adjustment is made for non-response to questionnaires in analyses included in this volume. The reported percentages and estimates based on indices refer to the proportion of the sample with valid responses to the corresponding questionnaire items. Table A1.3, available online, reports the proportion of the sample covered by analyses based on student or school questionnaire variables. Where this proportion shows large variation across countries/economies or across time, caution is required when comparing results on these dimensions.



Table available online

Table A1.3. Weighted share of responding students covered by analyses based on questionnaires (http://dx.doi.org/10.1787/888933433112)

Note

1. In the United Kingdom (excluding Scotland), career expectations were coded to the three-digit level only. As a result, the occupations of product and garment designers (ISCO08: 2163) and graphic and multimedia designers (2166) are included among science and engineering professionals, medical and dental prosthetic technicians (3214) are included among science technicians and associate professionals, while telecommunications engineering technicians (3522) are excluded. These careers represent a small percentage of the students classified as having science-related career expectations, such that results are not greatly affected.

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ANNEX A2

THE PISA TARGET POPULATION, THE PISA SAMPLES AND THE DEFINITION OF SCHOOLS

Definition of the PISA target population

PISA 2015 provides an assessment of the cumulative outcomes of education and learning at a point at which most young adults are still enrolled in initial education.

A major challenge for an international survey is to ensure that international comparability of national target populations is guaranteed.

Differences between countries in the nature and extent of pre-primary education and care, the age at entry into formal schooling and the institutional structure of education systems do not allow for a definition of internationally comparable grade levels. Consequently, international comparisons of performance in education typically define their populations with reference to a target age group. Some previous international assessments have defined their target population on the basis of the grade level that provides maximum coverage of a particular age cohort. A disadvantage of this approach is that slight variations in the age distribution of students across grade levels often lead to the selection of different target grades in different countries, or between education systems within countries, raising serious questions about the comparability of results across, and at times within, countries. In addition, because not all students of the desired age are usually represented in grade-based samples, there may be a more serious potential bias in the results if the unrepresented students are typically enrolled in the next higher grade in some countries and the next lower grade in others. This would exclude students with potentially higher levels of performance in the former countries and students with potentially lower levels of performance in the latter.

In order to address this problem, PISA uses an age-based definition for its target population, i.e. a definition that is not tied to the institutional structures of national education systems. PISA assesses students who were aged between 15 years and 3 (complete) months and 16 years and 2 (complete) months at the beginning of the assessment period, plus or minus a 1-month allowable variation, and who were enrolled in an educational institution with grade 7 or higher, regardless of the grade level or type of institution in which they were enrolled, and regardless of whether they were in full-time or part-time education. Educational institutions are generally referred to as schools in this publication, although some educational institutions (in particular, some types of vocational education establishments) may not be termed schools in certain countries. As expected from this definition, the average age of students across OECD countries was 15 years and 9 months. The range in country means was 2 months and 18 days (0.20 years), from the minimum country mean of 15 years and 10 months.

Given this definition of population, PISA makes statements about the knowledge and skills of a group of individuals who were born within a comparable reference period, but who may have undergone different educational experiences both in and outside school. In PISA, these knowledge and skills are referred to as the outcomes of education at an age that is common across countries. Depending on countries' policies on school entry, selection and promotion, these students may be distributed over a narrower or a wider range of grades across different education systems, tracks or streams. It is important to consider these differences when comparing PISA results across countries, as observed differences between students at age 15 may no longer appear later on as/if students' educational experiences converge over time.

If a country's scores in science, reading or mathematics are significantly higher than those in another country, it cannot automatically be inferred that the schools or particular parts of the education system in the first country are more effective than those in the second. However, one can legitimately conclude that the cumulative impact of learning experiences in the first country, starting in early childhood and up to the age of 15, and embracing experiences in school, home and beyond, have resulted in higher outcomes in the literacy domains that PISA measures.

The PISA target population does not include residents attending schools in a foreign country. It does, however, include foreign nationals attending schools in the country of assessment.

To accommodate countries that requested grade-based results for the purpose of national analyses, PISA 2015 provided a sampling option to supplement age-based sampling with grade-based sampling.

Population coverage

All countries and economies attempted to maximise the coverage of 15-year-olds enrolled in education in their national samples, including students enrolled in special-education institutions. As a result, PISA 2015 reached standards of population coverage that are unprecedented in international surveys of this kind.

The sampling standards used in PISA permitted countries to exclude up to a total of 5% of the relevant population either by excluding schools or by excluding students within schools. All but 12 countries – the United Kingdom (8.22%), Luxembourg (8.16%), Canada (7.49%), Norway (6.75%), New Zealand (6.54%), Sweden (5.71%), Estonia (5.52%), Australia (5.31%),



Montenegro (5.17%), Lithuania (5.12%), Latvia (5.07%), and Denmark (5.04%) - achieved this standard, and in 29 countries and economies, the overall exclusion rate was less than 2%. When language exclusions were accounted for (i.e. removed from the overall exclusion rate), Denmark, Latvia, New Zealand and Sweden no longer had an exclusion rate greater than 5%. For details, see www.pisa.oecd.org.

Exclusions within the above limits include:

- At the school level: schools that were geographically inaccessible or where the administration of the PISA assessment was not considered feasible; and schools that provided teaching only for students in the categories defined under "within-school exclusions", such as schools for the blind. The percentage of 15-year-olds enrolled in such schools had to be less than 2.5% of the nationally desired target population (0.5% maximum for the former group and 2% maximum for the latter group). The magnitude, nature and justification of school-level exclusions are documented in the PISA 2015 Technical Report (OECD, forthcoming).
- At the student level: students with an intellectual disability; students with a functional disability; students with limited assessment language proficiency; other (a category defined by the national centres and approved by the international centre); and students taught in a language of instruction for the main domain for which no materials were available. Students could not be excluded solely because of low proficiency or common disciplinary problems. The percentage of 15-year-olds excluded within schools had to be less than 2.5% of the nationally desired target population.

Table A2.1 describes the target population of the countries participating in PISA 2015. Further information on the target population and the implementation of PISA sampling standards can be found in the PISA 2015 Technical Report (OECD, forthcoming).

- Column 1 shows the total number of 15-year-olds according to the most recent available information, which in most countries means the year 2014 as the year before the assessment.
- Column 2 shows the number of 15-year-olds enrolled in schools in grade 7 or above (as defined above), which is referred to as the "eligible population".
- Column 3 shows the national desired target population. Countries were allowed to exclude up to 0.5% of students a priori from the eligible population, essentially for practical reasons. The following a priori exclusions exceed this limit but were agreed with the PISA Consortium: Belgium excluded 0.21% of its population for a particular type of student educated while working; Canada excluded 1.22% of its population from Territories and Aboriginal reserves; Chile excluded 0.04% of its students who live in Easter Island, Juan Fernandez Archipelago and Antarctica; and the United Arab Emirates excluded 0.04% of its students who had no information available. The adjudicated region of Massachusetts in the United States excluded 13.11% of its students, and North Carolina excluded 5.64% of its students. For these two regions, the desired target populations cover 15-year-old students in grade 7 or above in public schools only. The students excluded from the desired population are private school students.
- Column 4 shows the number of students enrolled in schools that were excluded from the national desired target population, either from the sampling frame or later in the field during data collection.
- Column 5 shows the size of the national desired target population after subtracting the students enrolled in excluded schools. This is obtained by subtracting Column 4 from Column 3.
- Column 6 shows the percentage of students enrolled in excluded schools. This is obtained by dividing Column 4 by Column 3 and multiplying by 100.
- Column 7 shows the number of students participating in PISA 2015. Note that in some cases this number does not account for 15-year-olds assessed as part of additional national options.
- Column 8 shows the weighted number of participating students, i.e. the number of students in the nationally defined target population that the PISA sample represents.
- Each country attempted to maximise the coverage of PISA's target population within the sampled schools. In the case of each sampled school, all eligible students, namely those 15 years of age, regardless of grade, were first listed. Sampled students who were to be excluded had still to be included in the sampling documentation, and a list drawn up stating the reason for their exclusion. Column 9 indicates the total number of excluded students, which is further described and classified into specific categories in Table A2.2.
- Column 10 indicates the weighted number of excluded students, i.e. the overall number of students in the nationally defined target population represented by the number of students excluded from the sample, which is also described and classified by exclusion categories in Table A2.2. Excluded students were excluded based on five categories: students with an intellectual disability (the student has a mental or emotional disability and is cognitively delayed such that he/she cannot perform in the PISA testing situation); students with a functional disability (the student has a moderate to severe permanent physical disability such that he/she cannot perform in the PISA testing situation); students with limited proficiency in the assessment language (the student is unable to read or speak any of the languages of the assessment in the country and would be unable to overcome the language barrier in the testing situation – typically a student who has received less than one year of instruction in the languages of assessment may be excluded); other (a category defined by the national centres and approved by the international centre); and students taught in a language of instruction for the main domain for which no materials were available.



[Part 1/1]

Table A2.1 PISA target populations and samples

Participating Participatin	(12) 5.31 2.11 1.66 7.49 1.75 2.44 5.04 5.52	Coverage Index 1: Coverage Operational desired populational desired population 0.925 0.983 0.926	Coverage Index 2: Coverage of national enrolled population 0.947 0.981 0.914	Coverage Index 3: Coverage of 15-year-old population
Austria 282 888 282 547 282 547 6 940 275 607 2.46 14 530 256 329 681 7 736 2.93 Austria 88 013 82 683 82 683 790 81 893 0.96 7 007 73 379 84 866 1.17 Belgium 123 630 121 954 121 694 1 597 120 097 1.31 9 651 114 902 39 410 0.36 Canada 396 966 381 660 376 994 1 590 375 404 0.42 20 058 331 546 1 830 25 340 7.10 Chile 255 440 245 947 245 852 2 641 243 211 1.07 7 053 203 782 37 1 393 0.68 Czech Republic 90 391 90 076 90 076 1 814 88 262 2.01 6 894 84 519 25 368 0.68 Czech Republic 68 174 67 466 67 466 605 66 861 0.90 7 161 60 655 514 2 644 4.18 Estonia 11 676 11 491 11 491 416 11 075 3.62 5 587 10 834 116 218 1.97	5.31 2.11 1.66 7.49 1.75 2.44 5.04 5.52	0.947 0.979 0.983 0.925 0.983	0.947 0.979 0.981	0.906 0.834
Austria 88 013 82 683 82 683 790 81 893 0.96 7 007 7 3 379 84 866 1.17 Belgium 123 630 121 954 121 694 1 597 120 097 1.31 9 651 114 902 39 410 0.36 Canada 396 966 381 660 376 994 1 590 375 404 0.42 20 058 331 546 1 830 25 340 7.10 Chile 255 440 245 947 245 852 2 641 243 211 1.07 7 053 203 782 37 1 393 0.68 Czech Republic 90 391 90 076 90 076 1 814 88 262 2.01 6 894 84 519 25 368 0.43 Denmark 68 174 67 466 67 466 605 66 861 0.90 7 161 60 655 514 2 644 4.18 Istonia 11 676 11 491 11 491 11 1 075 3.62 5 587 10 834 116 218	2.11 1.66 7.49 1.75 2.44 5.04 5.52	0.979 0.983 0.925 0.983	0.979 0.981	0.834
Canada 396 966 381 660 376 994 1 590 375 404 0.42 20 058 331 546 1 830 25 340 7.10 Chile 255 440 245 947 245 852 2 641 243 211 1.07 7 053 203 782 37 1 393 0.68 Czech Republic 90 391 90 076 90 076 1 814 88 262 2.01 68 94 8 4 519 25 368 0.48 Demark 68 174 67 466 67 466 605 66861 0.90 7 161 60 655 514 2 644 4.18 Estonia 11 676 11 491 11 491 416 11 075 3.62 5 587 10 834 116 218 1.97	1.66 7.49 1.75 2.44 5.04 5.52	0.983 0.925 0.983	0.981	
Chile 255 440 245 947 245 852 2 641 243 211 1.07 7 053 203 782 37 1 393 0.68 Czech Republic 90 391 90 076 90 076 1 814 88 262 2.01 6 894 84 519 25 368 0.48 Demmark 68 174 67 466 67 466 605 68 61 0.90 7 161 60 655 514 2 644 4.18 Estonia 11 676 11 491 11 491 416 11 075 3.62 5 587 10 834 116 218 1.97	1.75 2.44 5.04 5.52	0.983	0.914	0.929
Czech Republic 90 391 90 076 90 076 1 814 88 262 2.01 6 894 84 519 25 368 0.43 Denmark 68 174 67 466 67 466 605 66 861 0.90 7 161 60 655 514 2 644 4.18 Estonia 11 676 11 491 11 491 416 11 075 3.62 5 587 10 834 116 218 1.97	2.44 5.04 5.52			0.835
Denmark 68 174 67 466 67 466 605 66 861 0.90 7 161 60 655 514 2 644 4.18 Estonia 11 676 11 491 416 11 075 3.62 5 587 10 834 116 218 1.97	5.04 5.52	1 0.976	0.982	0.798
Estonia 11 676 11 491 11 491 416 11 075 3.62 5 587 10 834 116 218 1.97	5.52	0.950	0.976	0.935 0.890
		0.945	0.945	0.928
Finland 58 526 58 955 58 955 472 58 483 0.80 5 882 56 934 124 1 157 1.99	2.78	0.972	0.972	0.973
France 807 867 778 679 778 679 28 742 749 937 3.69 6 108 734 944 35 3 620 0.49	4.16	0.958	0.958	0.910
Germany 774 149 774 149 774 149 11 150 762 999 1.44 6 522 743 969 54 5 342 0.71 Greece 105 530 105 253 105 253 953 104 300 0.91 5 532 96 157 58 965 0.99	2.14 1.89	0.979	0.979	0.961
Hungary 94 515 90 065 90 065 1 945 88 120 2.16 5 658 84 644 55 1 009 1.18		0.967	0.967	0.896
Iceland 4 250 4 195 4 195 17 4 178 0.41 3 374 3 966 131 132 3.23	3.62	0.964	0.964	0.933
	3.11	0.969	0.969	0.965
Israel 124 852 118 997 118 997 2 310 116 687 1.94 6 598 117 031 115 1 803 1.52 Italy 616 761 567 268 567 268 11 190 556 078 1.97 11 583 495 093 246 9 395 1.86	3.43	0.966	0.966	0.937
Japan 1 201 615 1 175 907 2 175 907 2 27 323 1 148 584 2.32 6 647 1 138 349 2 318 0.03	2.35	0.976	0.976	0.947
Korea 620 687 619 950 619 950 3 555 616 395 0.57 5 581 569 106 20 1 806 0.32	0.89	0.991	0.991	0.917
Latvia 17 255 16 955 16 955 677 16 278 3.99 4 869 15 320 70 174 1.12	5.07	0.949	0.949	0.888
Luxembourg 6 327 6 053 6 053 162 5 891 2.68 5 299 5 540 331 331 5.64 Mexico 2 257 399 1 401 247 1 401 247 5 905 1 395 342 0.42 7 568 1 392 995 30 6 810 0.49	8.16 0.91	0.918	0.918	0.876
Netherlands 201 670 200 976 7 200 976 6 866 194 110 3.42 5.885 191 817 14 502 0.26	3.67	0.963	0.963	0.951
New Zealand 60 162 57 448 57 448 681 56 767 1.19 4 520 54 274 333 3 112 5.42	6.54	0.935	0.935	0.902
Norway 63 642 63 491 63 491 854 62 637 1.35 5 456 58 083 345 3 366 5.48	6.75	0.933	0.933	0.913
Poland 380 366 361 600 361 600 6 122 355 478 1.69 4 478 345 709 34 2 418 0.69 Portugal 110 939 101 107 101 107 424 100 683 0.42 7 325 97 214 105 860 0.88	2.38	0.976	0.976	0.909 0.876
Forusal 1103 939 101 107 101 107 424 100 605 0.42 7 253 97 214 103 600 0.60 10	4.25	0.957	0.957	0.892
Slovenia 18 078 17 689 17 689 290 17 399 1.64 6 406 16 773 114 247 1.45	3.07	0.969	0.969	0.928
Spain 440 084 414 276 414 276 2 175 412 101 0.53 6 736 399 935 200 10 893 2.65	3.16	0.968	0.968	0.909
Sweden 97 749 97 210 97 210 1 214 95 996 1.25 5 458 91 491 275 4 324 4.51 Switzerland 85 495 83 655 83 655 2 320 81 335 2.77 5 860 82 223 107 1 357 1.62	5.71 4.35	0.943	0.943	0.936
Turkey 1324 089 1100 074 1100 074 5746 1094 328 0.52 5895 925 366 31 5359 0.58			0.989	0.699
United Kingdom 747 593 746 328 746 328 23 412 722 916 3.14 14 157 627 703 870 34 747 5.25	8.22	0.918	0.918	0.840
United States 4 220 325 3 992 053 3 992 053 12 001 3 980 052 0.30 5 712 3 524 497 193 109 580 3.02	3.31	0.967	0.967	0.835
g Albania 48 610 45 163 45 163 10 45 153 0.02 5 215 40 896 0 0 0.00	0.02	1.000	1.000	0.841
Albania 48 610 45 163 45 163 10 45 153 0.02 5 215 40 896 0 0 0.00 Algeria 389 315 354 936 354 936 0 354 936 0.00 5 519 306 647 0 0 0.00 Argentina 718 635 578 308 578 308 2 617 575 691 0.45 6 349 394 917 21 1367 0.34	0.00	1.000	1.000 0.992	0.788
Argentina 718 635 578 308 578 308 2 617 575 691 0.45 6 349 394 917 21 1 367 0.34 Brazil 3 430 255 2 853 388 2 853 388 64 392 2 788 996 2.26 23 141 2 425 961 119 13 543 0.56	2.80	0.992	0.992	0.330
B-S-J-G (China) 2 084 958 1 507 518 1 507 518 58 639 1 448 879 3.89 9 841 1 331 794 33 3 609 0.27	4.15	0.959	0.959	0.639
Bulgaria 66 601 59 397 59 397 1 124 58 273 1.89 5 928 53 685 49 433 0.80	2.68	0.973	0.973	0.806
Colombia 760 919 674 079 674 079 37 674 042 0.01 11 795 567 848 9 507 0.09 Costa Rica 81 773 66 524 66 524 0 66 524 0.00 6 866 51 897 13 98 0.19	0.09	0.999	0.999	0.746
Croatia 45 031 35 920 35 920 805 35 115 2.24 5 809 40 899 86 589 1.42	3.63	0.964	0.964	0.908
Cyprus* 9 255 9 255 9 253 109 9 144 1.18 5 571 8 785 228 292 3.22	4.36	0.956	0.956	0.949
Dominican Republic 193 153 139 555 139 555 2382 137 173 1.71 4 740 132 300 4 106 0.08		0.982	0.982	0.685
FYROM 16 719 16 717 16 717 259 16 458 1.55 5 324 15 847 8 19 0.12 Georgia 48 695 43 197 43 197 1 675 41 522 3.88 5 316 38 334 35 230 0.60	1.67 4.45	0.983	0.983	0.948
Hong Kong (China) 65 100 61 630 61 630 708 60 922 1.15 5 359 57 662 36 374 0.65	1.79	0.982	0.982	0.886
Indonesia 4 534 216 3 182 816 3 182 816 4 046 3 178 770 0.13 6 513 3 092 773 0 0 0.00		0.999	0.999	0.682
Jordan 126 399 121 729 121 729 71 121 658 0.06 7 267 108 669 70 1 006 0.92 Kazakhstan 211 407 209 555 209 555 7 475 202 080 3.57 7 841 192 909 0 0 0.00	0.97	0.990	0.990	0.860
Kazakhstan 211 407 209 555 209 555 7 475 202 080 3.57 7 841 192 909 0 0 0.00 Kosovo 31 546 28 229 28 229 1 156 27 073 4.10 4 826 22 333 50 174 0.77	4.84	0.952	0.952	0.708
Lebanon 64 044 62 281 62 281 1 300 60 981 2.09 4 546 42 331 0 0 0 0.00		0.979	0.979	0.661
Lithuania 33 163 32 097 32 097 573 31 524 1.79 6 525 29 915 227 1 050 3.39	5.12	0.949	0.949	0.902
Macao (China) 5 100 4 417 4 417 3 4 414 0.07 4 476 4 507 0 0 0.00 Malaysia 540 000 448 838 448 838 2 418 446 420 0.54 8 861 412 524 41 2 344 0.56	1.10	0.999	0.999	0.884
Malta 4 397 4 406 4 406 63 4 343 1.43 3 634 4 296 41 41 0.95			0.989	0.764
Moldova 31 576 30 601 30 601 182 30 419 0.59 5 325 29 341 21 118 0.40	0.99	0.990	0.990	0.929
Montenegro 7 524 7 506 7 506 40 7 466 0.53 5 665 6 777 300 332 4.66		0.948	0.948	0.901
Peru 580 371 478 229 478 229 6 355 471 874 1.33 6 971 431 738 13 745 0.17 Qatar 13 871 13 850 13 850 380 13 470 2.74 12 083 12 951 193 193 1.47	1.50	0.985	0.985	0.744
Romania 176 334 176 334 176 334 1 823 174 511 1.03 4 876 164 216 3 120 0.07	1.11	0.936	0.989	0.934
Russia 1 176 473 1 172 943 1 172 943 24 217 1 148 726 2.06 6 036 1 120 932 13 2 469 0.22	2.28	0.977	0.977	0.953
Singapore 48 218 47 050 47 050 445 46 605 0.95 6115 46 224 25 179 0.39	1.33	0.987	0.987	0.959
Chinese Taipei 295 056 287 783 287 783 1 179 286 604 0.41 7 708 251 424 22 647 0.26 Thailand 895 513 756 917 756 917 9 646 747 271 1.27 8 249 634 795 22 2 107 0.33	1.60	0.993	0.993	0.852
Trinidad and Tobago 17 371 17 371 17 371 17 371 17 371 0 17 371 10 0 4 692 13 197 0 0 0.00			1.000	0.760
Tunisia 122 186 122 186 122 186 679 121 507 0.56 5 375 113 599 3 61 0.05	0.61	0.994	0.994	0.930
United Arab Emirates 51 687 51 518 51 499 994 50 505 1.93 14 167 46 950 63 152 0.32 Uruguay 53 533 43 865 43 865 4 43 861 0.01 6 062 38 287 6 32 0.08		0.978	0.977	0.908
Uruguay 53 533 43 865 43 865 4 43 861 0.01 6 062 38 287 6 32 0.08 Viet Nam 1 803 552 1 032 599 1 032 599 6 557 1 026 042 0.63 5 826 874 859 0 0 0.00			0.999	0.715 0.485

Notes: For a full explanation of the details in this table please refer to the *PISA 2015 Technical Report* (OECD, forthcoming).

The figure for total national population of 15-year-olds enrolled in Column 2 may occasionally be larger than the total number of 15-year-olds in Column 1 due to differing data sources.

For Mexico, in 2015, the Total population of 15-year-olds enrolled in grade 7 or above is an estimate of the target population size of the sample frame from which the 15-year-olds students were selected for the PISA test. At the time Mexico provided the information to PISA, the official figure for this population was 1 573 952.

* See note at the beginning of this Annex.

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[Part 1/2]

Table A2.2 Exclusions

	ble A2.2 Exclusion	Student exclusions (unweighted)					
		Number of excluded students with functional disability (Code 1)	Number of excluded students with intellectual disability (Code 2)	Number of excluded students because of language (Code 3)	Number of excluded students for other reasons (Code 4)	Number of excluded students because of no materials available in the language of instruction (Code 5)	School-level exclusion rate (%)
		(1)	(2)	(3)	(4)	(5)	(6)
OFCD	Australia	85	528	68	0	0	681
ζ,	Austria	8	15	61	0	0	84
וכ	Belgium	4	18	17	0	0	39
ı	Chile	156	1 308 30	366 1	0	0	1 830 37
ı	Chile Czech Republic	6 2	9	14	0	0	25
i	Denmark	18	269	156	70	1	514
	Estonia	17	93	6	0	0	116
ì	Finland	2	90	17	8	7	124
ľ	France	5	21	9	0	0	35
1	Germany	4	25	25	0	0	54
	Greece '	3	44	11	0	0	58
	Hungary	3	13	9	30	0	55
	Iceland	9	66	47	9	0	131
	Ireland	25	57	55	60	0	197
ì	Israel	22	68	25	0	0	115
ı	Italy	78	147	21	0	0	246
í	Japan	0	2	0	0	0	2
ı	Korea	3	17	0	0	0	20
ì	Luxambaurg	7	47 254	16	0	0	70
ı	Luxembourg			73			331
ì	Mexico Netherlands	4	23 13	3	0	0	30 14
ı	New Zealand	23	140	167	0	3	333
Ī	Norway	11	253	81	0	0	345
ı	Poland	11	20	0	3	0	34
	Portugal	4	99	2	0	0	105
	Slovak Republic	7	71	2	34	0	114
	Slovenia	33	36	45	0	0	114
	Spain	9	144	47	0	0	200
	Sweden	154	0	121	0	0	275
	Switzerland	8	42	57	0	0	107
	Turkey	1	23	7	0	0	31
	United Kingdom	77	690	102	0	1	870
	United States	16	120	44	13	0	193
	Albania	0	0	0	0	0	0
	Algeria	0	0	0	0	0	0
	Argentina	10	10	1	0	0	21
	Brazil	20	99	0	ő	0	119
	B-S-J-G (China)	6	25	2	0	0	33
	Bulgaria	39	6	4	0	0	49
	Colombia	3	4	2	0	0	9
	Costa Rica	3	1	0	9	0	13
	Croatia	2	75	9	0	0	86
	Cyprus*	12	164	52	0	0	228
	Dominican Republic	1	3	0	0	0	4
	FYROM	7	1	0	0	0	8
	Georgia	3	25	7	0	0	35
	Hong Kong (China) Indonesia	0	35 0	1 0	0	0	36 0
	Jordan	43	17	10	0	0	70
	Kazakhstan	0	0	0	0	0	0
	Kosovo	9	13	27	0	0	50
	Lebanon	0	0	0	0	0	0
	Lithuania	12	213	2	0	0	227
	Macao (China)	0	0	0	0	0	0
	Malaysia	10	22	9	0	0	41
	Malta	8	27	6	0	0	41
	Moldova	12	8	1	0	0	21
	Montenegro	14	23	5	0	258	300
	Peru	4	9	0	0	0	13
	Qatar	76	110	7	0	0	193
	Romania	1	1	1	0	0	3
		3	10	0	0	0	13
	Russia		15	7	0	0	25
	Singapore	3					
	Singapore Chinese Taipei	3	19	0	0	0	22
	Singapore Chinese Taipei Thailand	3	19 19	0 2	0	0	22
	Singapore Chinese Taipei Thailand Trinidad and Tobago	3 1 0	19 19 0	0 2 0	0	0	22 0
	Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	3 1 0 0	19 19 0 0	0 2 0 3	0 0 0	0 0 0	22 0 3
	Singapore Chinese Taipei Thailand Trinidad and Tobago	3 1 0	19 19 0	0 2 0	0	0	22 0

Exclusion codes:
Code 1: Functional disability – student has a moderate to severe permanent physical disability.

Code 2: Intellectual disability – student has a mental or emotional disability and has either been tested as cognitively delayed or is considered in the professional opinion of qualified staff to be cognitively delayed.

Code 3: Limited assessment language proficiency – student is not a native speaker of any of the languages of the assessment in the country and has been resident in the country for less than one year.

Code 4: Other reasons defined by the national centres and approved by the international centre.

Code 5: No materials available in the language of instruction.

Note: For a full explanation of the details in this table please refer to the PISA 2015 Technical Report (OECD, forthcoming).

* See note at the beginning of this Annex.

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[Part 2/2]

Table A2.2 Exclusions

	DIE A2.2 EXCIUSION			Student exclus	ion (weighted)		
		Weighted number of excluded students with functional disability (Code 1)	Weighted number of excluded students with intellectual disability (Code 2)	Weighted number of excluded students because of language (Code 3)	Weighted number of excluded students for other reasons (Code 4)	Weighted number of excluded students because of no materials available in the language of instruction (Code 5)	Total weighted number of excluded students
		(7)	(8)	(9)	(10)	(11)	(12)
OECD	Australia	932	6 011	793	0	0	7 736
Ä	Austria	74	117	675	0	0	866
0	Belgium	33	192	185	0	0	410
	Canada	1 901	18 018	5 421	0	0	25 340
	Chile	194	1 190	9	0	0	1 393
	Czech Republic	40	140	188	0	0	368
	Denmark	122	1 539	551	421	11	2 644
	Estonia	29	176	13	0	0	218
	Finland	18	858	156	67	58	1 157
	France	562 423	2 144	914	0	0	3 620
	Germany		2 562	2 357	0	0	5 342
	Greece	43	729	193	0	0	965
	Hungary	57	284	114	554	0	1 009
	Iceland	9	67	47	9	0	132
	Ireland	213	526	516	570	0	1 825
	Israel	349	1 070	384	0	0	1 803
	Italy	3 316	5 199	880	0	0	9 395
	Japan	0	318	0	0	0	318
	Korea	291	1 515	0	0	0	1 806
	Latvia	21	115	38	0	0	174
	Luxembourg	4	254	73	0	0	331
	Mexico	842	4 802	1 165	0	0	6 810
	Netherlands	33	469	0	0	0	502
	New Zealand	233	1 287	1 568	0	24	3 112
	Norway	105	2 471	790	0	0	3 366
	Poland	876	1 339	0	203	0	2 418
	Portugal	29	818	13	0	0	860
	Slovak Republic	44	567	12	288	0	912
	Slovenia	84	71	92	0	0	247
	Spain	511	7 662	2 720	0	0	10 893
	Sweden	2 380	0	1 944	0	0	4 324
	Switzerland	91	540	726	0	0	1 357
	Turkey	43	4 094	1 222	0	0	5 359
	United Kingdom	2 724	27 808	4 001	0	214	34 747
	United States	7 873	67 816	26 525	7 366	0	109 580
_	All and	0	0	0	0	1 0	0
Partners	Albania	0	0	0	0	0	0 0
į.	Algeria	0 579	0 770	18	0	0	1 367
Pai	Argentina Brazil		11 800	0	0	0	
_		1 743			0	0	13 543
	B-S-J-G (China)	438	2 970	201		0	3 609
	Bulgaria	347	51	35 17	0		433
	Colombia	181	309			0	507
	Costa Rica	22	5	0	71 0	0	98
	Croatia	13	501	75 65		0	589 292
	Cyprus*	16 24	212	65 0	0	0	
	Dominican Republic		82 4	0	0	0	106 19
	FYROM Georgia	15 19	170	41	0	0	230
	Hong Kong (China)	0	363	11	0	0	374
	Indonesia	0	0	0	0	0	0
	Jordan	656	227	122	0	0	1 006
	Kazakhstan	0	0	0	0	0	0
	Kosovo	28	37	104	0	0	174
	Lebanon	0	0	0	0	0	0
	Lithuania	40	1 000	10	0	0	1 050
	Macao (China)	0	0	0	0	0	0
	Malaysia	663	1 100	580	0	0	2 344
	Malta	8	27	6	0	0	41
	Moldova	66	51	1	0	0	118
		27	38	6	0	261	332
	Montenegro						
	Peru	224	520 110	0	0	0	745
	Qatar	76		7	0	0	193
	Romania	31	63	26 0	0	0	120
	Russia	425	2 044			0	2 469
	Singapore Chinese Taipei	22	115	43	0	0	179
		78	568	0	0	0	647
	Thailand	114	1 830	163	0	0	2 107
	Trinidad and Tobago	0	0	0	0	0	0
	Tunisia	0	0	61	0	0	61
	United Arab Emirates	30	75	47	0	0	152
	Uruguay	10	22	0	0	0	32
	Viet Nam	0	U	0	0	0	0

Exclusion codes:
Code 1: Functional disability – student has a moderate to severe permanent physical disability.
Code 2: Intellectual disability – student has a mental or emotional disability and has either been tested as cognitively delayed or is considered in the professional opinion of qualified staff to be cognitively delayed.
Code 3: Limited assessment language proficiency – student is not a native speaker of any of the languages of the assessment in the country and has been resident in the country for less than one year.
Code 4: Other reasons defined by the national centres and approved by the international centre.
Code 5: No materials available in the language of instruction.
Note: For a full explanation of the details in this table please refer to the PISA 2015 Technical Report (OECD, forthcoming).

* See note at the beginning of this Annex.
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- Column 11 shows the percentage of students excluded within schools. This is calculated as the weighted number of excluded students (Column 10), divided by the weighted number of excluded and participating students (Column 8 plus Column 10), then multiplied by 100.
- Column 12 shows the overall exclusion rate, which represents the weighted percentage of the national desired target population excluded from PISA either through school-level exclusions or through the exclusion of students within schools. It is calculated as the school-level exclusion rate (Column 6 divided by 100) plus within-school exclusion rate (Column 11 divided by 100) multiplied by 1 minus the school-level exclusion rate (Column 6 divided by 100). This result is then multiplied by 100.
- Column 13 presents an index of the extent to which the national desired target population is covered by the PISA sample.
 Australia, Canada, Denmark, Estonia, Latvia, Lithuania, Luxembourg, Montenegro, New Zealand, Norway, Sweden and the United Kingdom were the only countries where the coverage is below 95%.
- Column 14 presents an index of the extent to which 15-year-olds enrolled in schools are covered by the PISA sample. The index measures the overall proportion of the national enrolled population that is covered by the non-excluded portion of the student sample. The index takes into account both school-level and student-level exclusions. Values close to 100 indicate that the PISA sample represents the entire education system as defined for PISA 2015. The index is the weighted number of participating students (Column 8) divided by the weighted number of participating and excluded students (Column 8 plus Column 10), times the nationally defined target population (Column 5) divided by the eligible population (Column 2) (times 100).
- Column 15 presents an index of the coverage of the 15-year-old population. This index is the weighted number of participating students (Column 8) divided by the total population of 15-year-old students (Column 1).

This high level of coverage contributes to the comparability of the assessment results. For example, even assuming that the excluded students would have systematically scored worse than those who participated, and that this relationship is moderately strong, an exclusion rate on the order of 5% would likely lead to an overestimation of national mean scores of less than 5 score points (on a scale with an international mean of 500 score points and a standard deviation of 100 score points). This assessment is based on the following calculations: if the correlation between the propensity of exclusions and student performance is 0.3, resulting mean scores would likely be overestimated by 1 score point if the exclusion rate is 1%, by 3 score points if the exclusion rate is 5%, and by 6 score points if the exclusion rate is 10%. If the correlation between the propensity of exclusions and student performance is 0.5, resulting mean scores would be overestimated by 1 score point if the exclusion rate is 1%, by 5 score points if the exclusion rate is 5%, and by 10 score points if the exclusion rate is 10%. For this calculation, a model was used that assumes a bivariate normal distribution for performance and the propensity to participate. For details, see the *PISA 2015 Technical Report* (OECD, forthcoming).

Sampling procedures and response rates

The accuracy of any survey results depends on the quality of the information on which national samples are based as well as on the sampling procedures. Quality standards, procedures, instruments and verification mechanisms were developed for PISA that ensured that national samples yielded comparable data and that the results could be compared with confidence.

Most PISA samples were designed as two-stage stratified samples (where countries applied different sampling designs, these are documented in the PISA 2015 Technical Report [OECD, forthcoming]). The first stage consisted of sampling individual schools in which 15-year-old students could be enrolled. Schools were sampled systematically with probabilities proportional to size, the measure of size being a function of the estimated number of eligible (15-year-old) students enrolled. At least 150 schools were selected in each country (where this number existed), although the requirements for national analyses often required a somewhat larger sample. As the schools were sampled, replacement schools were simultaneously identified, in case a sampled school chose not to participate in PISA 2015.

In the case of Iceland, Luxembourg, Macao (China), Malta and Qatar, all schools and all eligible students within schools were included in the sample.

Experts from the PISA Consortium performed the sample selection process for most participating countries and monitored it closely in those countries that selected their own samples. The second stage of the selection process sampled students within sampled schools. Once schools were selected, a list of each sampled school's 15-year-old students was prepared. From this list, 42 students were then selected with equal probability (all 15-year-old students were selected if fewer than 42 were enrolled). The number of students to be sampled per school could deviate from 42, but could not be less than 20.

Data-quality standards in PISA required minimum participation rates for schools as well as for students. These standards were established to minimise the potential for response biases. In the case of countries meeting these standards, it was likely that any bias resulting from non-response would be negligible, i.e. typically smaller than the sampling error.

A minimum response rate of 85% was required for the schools initially selected. Where the initial response rate of schools was between 65% and 85%, however, an acceptable school-response rate could still be achieved through the use of replacement schools.



This procedure brought with it a risk of increased response bias. Participating countries were, therefore, encouraged to persuade as many of the schools in the original sample as possible to participate. Schools with a student participation rate between 25% and 50% were not regarded as participating schools, but data from these schools were included in the database and contributed to the various estimations. Data from schools with a student participation rate of less than 25% were excluded from the database.

PISA 2015 also required a minimum participation rate of 80% of students within participating schools. This minimum participation rate had to be met at the national level, not necessarily by each participating school. Follow-up sessions were required in schools in which too few students had participated in the original assessment sessions. Student participation rates were calculated over all original schools, and also over all schools, whether original sample or replacement schools, and from the participation of students in both the original assessment and any follow-up sessions. A student who participated in the original or follow-up cognitive sessions was regarded as a participant. Those who attended only the questionnaire session were included in the international database and contributed to the statistics presented in this publication if they provided at least a description of their father's or mother's occupation.

Table A2.3 shows the response rates for students and schools, before and after replacement.

- Column 1 shows the weighted participation rate of schools before replacement. This is obtained by dividing Column 2 by Column 3.
- Column 2 shows the weighted number of responding schools before school replacement (weighted by student enrolment).
- Column 3 shows the weighted number of sampled schools before school replacement (including both responding and non-responding schools, weighted by student enrolment).
- Column 4 shows the unweighted number of responding schools before school replacement.
- Column 5 shows the unweighted number of responding and non-responding schools before school replacement.
- Column 6 shows the weighted participation rate of schools after replacement. This is obtained by dividing Column 7 by Column 8.
- Column 7 shows the weighted number of responding schools after school replacement (weighted by student enrolment).
- Column 8 shows the weighted number of schools sampled after school replacement (including both responding and non-responding schools, weighted by student enrolment).
- Column 9 shows the unweighted number of responding schools after school replacement.
- Column 10 shows the unweighted number of responding and non-responding schools after school replacement.
- Column 11 shows the weighted student participation rate after replacement. This is obtained by dividing Column 12 by Column 13.
- Column 12 shows the weighted number of students assessed.
- Column 13 shows the weighted number of students sampled (including both students who were assessed and students who
 were absent on the day of the assessment).
- Column 14 shows the unweighted number of students assessed. Note that any students in schools with student-response
 rates of less than 50% were not included in these rates (both weighted and unweighted).
- Column 15 shows the unweighted number of students sampled (including both students that were assessed and students who were absent on the day of the assessment). Note that any students in schools where fewer than half of the eligible students were assessed were not included in these rates (neither weighted nor unweighted).

Definition of schools

In some countries, subunits within schools were sampled instead of schools, and this may affect the estimation of the between-school variance components. In Austria, the Czech Republic, Germany, Hungary, Japan, Romania and Slovenia, schools with more than one study programme were split into the units delivering these programmes. In the Netherlands, for schools with both lower and upper secondary programmes, schools were split into units delivering each programme level. In the Flemish community of Belgium, in the case of multi-campus schools, implantations (campuses) were sampled, whereas in the French community, in the case of multi-campus schools, the larger administrative units were sampled. In Australia, for schools with more than one campus, the individual campuses were listed for sampling. In Argentina and Croatia, schools that had more than one campus had the locations listed for sampling. In Spain, the schools in the Basque region with multi-linguistic models were split into linguistic models for sampling. In Luxembourg, a school on the border with Germany was split according to the country in which the students resided. In addition, the International schools in Luxembourg were split into the students who were instructed in any of the three official languages, and those in the part of the schools that was excluded because no materials were available in the languages of instruction. The United Arab Emirates had schools split by curricula, and sometimes by gender, with other schools remaining whole. Because of reorganisation, some of Sweden's schools were split into parts, with each part having one principal. In Portugal, schools were reorganised into clusters, with teachers and the principal shared by all units in the school cluster.



[Part 1/1]

Ta	ble A2.3 Respons	e rat	es													
			lr before	nitial sample school repla	e – icemen	t			nal sample – nool replace	ment		F	inal sample after s	– students v chool replac	vithin sch cement	ools
		Weighted school participation rate before replacement (%)	Weighted number of responding schools (weighted also by enrolment)	Weighted number of schools sampled (responding and non-responding) (weighted also by enrolment)	Number of responding and non-responding schools (unweighted)	Total in national desired target population after all school exclusions and before withinschool exclusions	Weighted school participation rate after replacement (%)	Weighted number of responding schools (weighted also by enrolment)	Weighted number of schools sampled (responding and non-responding) (weighted also by enrolment)	Number of responding schools (unweighted)	Number of responding and non- responding schools (unweighted)	Weighted student participation rate after replacement (%)	Number of students assessed (weighted)	Number of students sampled (assessed and absent) (weighted)	Number of students assessed (unweighted)	Number of students sampled (assessed and absent) (unweighted)
_	Australia	(1) 94	(2)	(3)	(4)	(5)	(6) 95	(7) 262 130	(8) 276 072	(9)	(10)	(11)	(12)	(13)	(14)	(15)
OECD	Australia Austria	100	260 657 81 690	276 072 81 730	720 269	788 273	100	81 690	81 730	723 269	788 273	84 87	204 763 63 660	243 789 73 521	14 089 7 007	17 477 9 868
0	Belgium	83	98 786	118 915	244	301	95	113 435	118 936	286	301	91	99 760	110 075	9 635	10 602
	Canada Chile	74 92	283 853 215 139	381 133 232 756	703	1 008	79 99	299 512 230 749	381 189 232 757	726 226	1 008	81 93	210 476 189 206	260 487 202 774	19 604 7 039	24 129 7 515
	Czech Republic	98	86 354	87 999	339	344	98	86 354	87 999	339	344	89	73 386	82 672	6 835	7 693
	Denmark	90	57 803	63 897	327	371	92	58 837	63 931	331	371	89	49 732	55 830	7 149	8 184
	Estonia Finland	100	11 142 58 653	11 154 58 782	206 167	207 168	100	11 142 58 800	11 154 58 800	206 168	207 168	93 93	10 088 53 198	10 822 56 934	5 587 5 882	5 994 6 294
	France	91	679 984	749 284	232	255	94	706 838	749 284	241	255	88	611 563	693 336	5 980	6 783
	Germany	96	764 423	794 206	245	256	99	785 813	794 206	253	256	93	685 972	735 487	6 476	6 944
	Greece Hungary	92	95 030 83 897	103 031 89 808	190 231	212 251	98	101 653 88 751	103 218 89 825	209 244	212 251	94 92	89 588 77 212	94 986 83 657	5 511 5 643	5 838 6 101
	Iceland	99	4 114	4 163	122	129	99	4 114	4 163	122	129	86	3 365	3 908	3 365	3 908
	Ireland	99	61 023	61 461	167	169	99	61 023	61 461	167	169	89	51 947	58 630	5 741	6 478
	Israel Italy	91 74	105 192 383 933	115 717 516 113	169 414	190 532	93	107 570 451 098	115 717 515 515	173 464	190 532	90 88	98 572 377 011	108 940 430 041	6 598 11 477	7 294 12 841
	Japan	94	1 087 414	1 151 305	189	200	99	1 139 734	1 151 305	198	200	97	1 096 193	1 127 265	6 647	6 838
	Korea	100	612 937	615 107	168	169	100	612 937	615 107	168	169	99	559 121	567 284	5 581	5 664
	Latvia Luxembourg	86 100	14 122 5 891	16 334 5 891	231	269 44	93	15 103 5 891	16 324 5 891	248 44	269 44	90 96	12 799 5 299	14 155 5 540	4 845 5 299	5 368 5 540
	Mexico	95	1 311 608	1 373 919	269	284	98	1 339 901	1 373 919	275	284	95	1 290 435	1 352 237	7 568	7 938
	Netherlands	63	121 527	191 966	125	201	93	178 929	191 966	184	201	85	152 346	178 985	5 345	6 269
	New Zealand Norway	71 95	40 623 58 824	56 875 61 809	145 229	210 241	85 95	48 094 58 824	56 913 61 809	176 229	210 241	80 91	36 860 50 163	45 897 55 277	4 453 5 456	5 547 6 016
	Poland	88	314 288	355 158	151	170	99	352 754	355 158	168	170	88	300 617	343 405	4 466	5 108
	Portugal	86	87 756	102 193	213	254	95	97 516	102 537	238	254	82	75 391	91 916	7 180	8 732
	Slovak Republic	93	50 513	54 499	272	295	99	53 908	54 562	288	295	92	45 357	49 103	6 3 4 2	6 900
	Slovenia Spain	98	16 886 404 640	17 286 409 246	332 199	349 201	98 100	16 896 409 246	17 286 409 246	333 201	349 201	92 89	15 072 356 509	16 424 399 935	6 406 6 736	7 009 7 540
	Sweden	100	93 819	94 097	202	205	100	93 819	94 097	202	205	91	82 582	91 081	5 458	6 013
	Switzerland	93	75 482	81 026	212	232	98	79 481	81 375	225	232	92	74 465	80 544	5 838	6 305
	Turkey United Kingdom	97 84	1 057 318 591 757	1 091 317 707 415	175 506	195 598	99	1 081 935 654 992	1 091 528 707 415	187 547	195 598	95 89	874 609 517 426	918 816 581 252	5 895 14 120	6 211 16 123
	United States	67	2 601 386	3 902 089	142	213	83	3 244 399	3 893 828	177	213	90	2 629 707	2 929 771	5 712	6 376
-S	Albania	100	43 809	43 919	229	230	100	43 809	43 919	229	230	94	38 174	40 814	5 213	5 555
Partners	Algeria	96	341 463 508 448	355 216 572 941	159 212	166 238	96 97	341 463 556 478	355 216 572 941	159 231	166 238	92 90	274 121 345 508	296 434 382 352	5 494 6 311	5 934 7 016
Pai	Argentina Brazil	93	2 509 198	2 692 686	806	889	94	2 533 711	2 693 137	815	889	87	1 996 574	2 286 505	22 791	26 586
	B-S-J-G (China)	88	1 259 845	1 437 201	248	268	100	1 437 652	1 437 652	268	268	97	1 287 710	1 331 794	9 841	10 097
	Bulgaria Colombia	100	56 265	56 483	179	180	100	56 600	56 600	180	180	95	50 931 535 682	53 685	5 928	6 240
	Costa Rica	99	664 664 66 485	673 817 67 073	364 204	375 206	100	672 526 66 485	673 835 67 073	371 204	375 206	95 92	47 494	566 734 51 369	11 777 6 846	12 611 7 411
	Croatia	100	34 575	34 652	160	162	100	34 575	34 652	160	162	91	37 275	40 803	5 809	6 354
	Cyprus*	97	8 830	9 126	122	132	97	8 830	9 126	122	132	94	8 016	8 526	5 561	5 957
	Dominican Republic FYROM	100	136 669 16 426	138 187 16 472	193 106	195 107	100	136 669 16 426	138 187 16 472	193 106	195 107	94 95	122 620 14 999	130 700 15 802	4 731 5 324	5 026 5 617
	Georgia	97	40 552	41 595	256	267	99	41 081	41 566	262	267	94	35 567	37 873	5 316	5 689
	Hong Kong (China) Indonesia	75 98	45 603	60 716 3 176 076	115 232	153 236	90	54 795 3 176 076	60 715 3 176 076	138 236	153 236	93 98	48 222 3 015 844	51 806	5 359	5 747 6 694
	Jordan	100	3 126 468 119 024	119 024	250	250	100	119 024	119 024	250	250	98	105 868	3 092 773 108 669	6 513 7 267	7 462
	Kazakhstan	100	202 701	202 701	232	232	100	202 701	202 701	232	232	97	187 683	192 921	7 841	8 059
	Kosovo Lebanon	100	26 924 40 542	26 924 60 882	224	224 308	100 87	26 924 53 091	26 924 60 797	224 270	224 308	99 95	22 016 36 052	22 333 38 143	4 826 4 546	4 896 4 788
	Lithuania	99	31 386	31 588	309	311	100	31 543	31 588	310	311	91	27 070	29 889	6 523	7 202
	Macao (China)	100	4 414	4 414	45	45	100	4 414	4 414	45	45	99	4 476	4 507	4 476	4 507
	Malaysia Malta	51 100	229 340 4 341	446 237 4 343	147 59	230 61	98	437 424 4 341	446 100 4 343	224 59	230 61	97 85	393 785 3 634	407 396 4 294	8 843 3 634	9 097 4 294
	Moldova	100	30 145	30 145	229	229	100	30 145	30 145	229	229	98	28 754	29 341	5 325	5 436
	Montenegro	100	7 301	7 312	64	65	100	7 301	7 312	64	65	94	6 346	6 766	5 665	6 043
	Peru Qatar	100	468 406	470 651 13 470	280 166	282 168	100	469 662 13 333	470 651 13 470	281 166	282 168	99 94	426 205 12 061	430 959 12 819	6 971	7 054 12 819
	Romania	99	13 333 171 553	172 652	181	182	100	172 495	172 495	182	182	94	162 918	164 216	4 876	4 910
	Russia	99	1 181 937	1 189 441	209	210	99	1 181 937	1 189 441	209	210	97	1 072 914	1 108 068	6 021	6 215
	Singapore Chinese Taipei	97	45 299 286 778	46 620 286 778	175 214	179 214	98	45 553 286 778	46 620 286 778	176 214	179 214	93 98	42 241 246 408	45 259 251 424	6 105 7 708	6 555
	Thailand	99	739 772	751 010	269	273	100	751 010	751 010	273	273	98	614 996	634 795	8 249	7 871 8 491
	Trinidad and Tobago	92	15 904	17 371	141	163	92	15 904	17 371	141	163	79	9 674	12 188	4 587	5 745
	Tunisia	99	121 751	122 767	162	165	99	121 838	122 792	163	165	86	97 337	112 665	5 340	6 175
	United Arab Emirates Uruguay	99	49 310 42 986	50 060 43 737	473 217	477 221	99	49 310 43 442	50 060 43 737	473 219	477 221	95 86	43 774 32 762	46 263 38 023	14 167 6 059	15 014 7 026
	Viet Nam	100	996 757	996 757	188	188	100	996 757	996 757	188	188	100	871 353	874 859	5 826	5 849
_		_					_			_	_				_	_

* See note at the beginning of this Annex.

StatLink * http://dx.doi.org/10.1787/888933433129



Grade levels

Students assessed in PISA 2015 are at various grade levels. The percentage of students at each grade level is presented by country in Table A2.4a and by gender within each country in Table A2.4b.

[Part 1/1] Table A2.4a Percentage of students at each grade level

H					_	-	udents				1	
	7th g	grade	8th	grade	9th	grade	10th	grade	11th	grade	12th grade	e and abo
	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Australia	0.0	(0.0)	0.1	(0.0)	11.2	(0.3)	74.6	(0.4)	14.0	(0.4)	0.1	(0.0)
Austria	0.0	(0.0)	2.0	(0.6)	20.8	(0.9)	71.2	(1.0)	5.9	(0.3)	0.0	(0.0)
Belgium	0.6	(0.1)	6.4	(0.5)	30.7	(0.7)	61.0	(0.9)	1.3	(0.1)	0.0	(0.0)
Canada	0.1	(0.0)	0.7	(0.1)	10.8	(0.5)	87.6	(0.6)	0.8	(0.1)	0.0	(0.0)
Chile	1.7	(0.3)	4.1	(0.6)	24.0	(0.7)	68.1	(1.0)	2.1	(0.2)	0.0	(0.0)
Czech Republic	0.5	(0.1)	3.9	(0.3)	49.4	(1.2)	46.2	(1.2)	0.0	(0.0)	0.0	С
Denmark	0.2	(0.1)	16.4	(0.6)	81.9	(0.7)	1.4	(0.5)	0.0	С	0.0	С
Estonia	0.8	(0.2)	21.3	(0.6)	76.6	(0.6)	1.3	(0.3)	0.0	C	0.0	(0.0)
Finland	0.5	(0.1)	13.6	(0.4)	85.7	(0.4)	0.0	(0.0)	0.2	(0.1)	0.0	С
France	0.0	(0.0)	1.0	(0.2)	23.1	(0.6)	72.5	(0.7)	3.2	(0.2)	0.1	(0.1)
Germany	0.5	(0.1)	7.7	(0.4)	47.3	(0.8)	43.1	(0.8)	1.5	(0.5)	0.0	(0.0)
Greece	0.2	(0.1)	0.7	(0.2)	3.8	(0.8)	95.3	(0.9)	0.0	C	0.0	C
Hungary	1.7	(0.3)	8.5	(0.5)	75.8	(0.7)	14.0	(0.5)	0.0	C	0.0	C
Iceland	0.0	C	0.0	C	0.0	C	100.0	C	0.0	C	0.0	C
Ireland	0.0	(0.0)	1.8	(0.2)	60.6	(0.7)	26.5	(1.1)	11.1	(0.9)	0.0	С
Israel	0.0	C	0.1	(0.0)	16.4	(0.9)	82.7	(0.9)	0.9	(0.3)	0.0	С
Italy	0.1	(0.0)	1.0	(0.2)	15.2	(0.6)	77.2	(0.7)	6.6	(0.3)	0.0	С
Japan	0.0	С	0.0	С	0.0	С	100.0	(0.0)	0.0	С	0.0	С
Korea	0.0	С	0.0	С	9.1	(0.8)	90.4	(0.8)	0.5	(0.1)	0.0	С
Latvia	0.9	(0.2)	11.7	(0.5)	84.4	(0.6)	2.9	(0.3)	0.0	(0.0)	0.0	С
Luxembourg	0.3	(0.1)	7.9	(0.1)	50.9	(0.1)	40.3	(0.1)	0.6	(0.0)	0.0	С
Mexico	2.3	(0.3)	4.8	(0.4)	31.9	(1.4)	60.3	(1.6)	0.5	(0.1)	0.2	(0.0)
Netherlands	0.1	(0.0)	2.8	(0.3)	41.6	(0.6)	54.8	(0.6)	0.8	(0.2)	0.0	(0.0)
New Zealand	0.0	С	0.0	С	0.0	(0.0)	6.2	(0.3)	88.8	(0.5)	5.0	(0.5)
Norway	0.0	С	0.0	С	0.6	(0.1)	99.3	(0.2)	0.1	(0.1)	0.0	С
Poland	0.6	(0.1)	4.9	(0.3)	93.8	(0.4)	0.6	(0.2)	0.0	С	0.0	С
Portugal	3.2	(0.3)	8.4	(0.5)	22.9	(0.9)	65.1	(1.2)	0.4	(0.1)	0.0	С
Slovak Republic	2.2	(0.4)	4.6	(0.4)	42.6	(1.3)	50.6	(1.2)	0.1	(0.0)	0.0	С
Slovenia	0.0	С	0.3	(0.1)	4.8	(0.3)	94.6	(0.4)	0.3	(0.1)	0.0	С
Spain	0.1	(0.0)	8.6	(0.5)	23.4	(0.6)	67.9	(0.9)	0.1	(0.1)	0.0	C
Sweden	0.1	(0.1)	3.1	(0.4)	94.9	(0.8)	1.8	(0.7)	0.1	(0.1)	0.0	С
Switzerland	0.5	(0.1)	11.8	(0.7)	61.3	(1.2)	25.9	(1.3)	0.5	(0.1)	0.0	(0.0)
Turkey	0.6	(0.1)	2.6	(0.4)	20.7	(1.0)	72.9	(1.2)	3.0	(0.3)	0.1	(0.0)
United Kingdom	0.0	C	0.0	C	0.0	C	1.6	(0.3)	97.4	(0.4)	1.0	(0.3)
United States	0.0	(0.0)	0.5	(0.3)	9.6	(0.7)	72.4	(0.9)	17.3	(0.6)	0.1	(0.0)
Albania	0.2	(0.1)	1.0	(0.2)	35.8	(2.3)	61.7	(2.3)	1.2	(0.7)	0.0	(0.0)
Algeria	18.8	(1.0)	23.5	(1.1)	35.1	(1.5)	19.4	(2.1)	3.2	(0.7)	0.0	С
Brazil	3.5	(0.2)	6.4	(0.4)	12.5	(0.5)	35.9	(0.9)	39.2	(0.8)	2.5	(0.2)
B-S-J-G (China)	1.1	(0.2)	9.2	(0.7)	52.7	(1.7)	34.6	(2.0)	2.2	(0.5)	0.1	(0.0)
Bulgaria	0.5	(0.2)	3.0	(0.6)	92.2	(0.8)	4.3	(0.4)	0.0	C	0.0	C
Colombia	5.3	(0.4)	12.3	(0.6)	22.7	(0.6)	40.2	(0.7)	19.5	(0.6)	0.0	C
Costa Rica	6.2	(0.7)	14.0	(0.7)	33.0	(1.2)	46.5	(1.6)	0.2	(0.1)	0.1	(0.1)
Croatia	0.0	C	0.2	(0.2)	79.2	(0.5)	20.6	(0.4)	0.0	C	0.0	C
Cyprus*	0.0	С	0.3	(0.0)	5.8	(0.1)	93.1	(0.1)	0.7	(0.1)	0.0	C
Dominican Republic	7.1	(0.8)	13.8	(1.2)	20.6	(0.8)	41.9	(1.1)	14.2	(0.7)	2.4	(0.3)
FYROM	0.1	(0.1)	0.1	(0.1)	70.2	(0.2)	29.7	(0.2)	0.0	C	0.0	С
Georgia	0.1	(0.0)	0.8	(0.2)	22.0	(0.8)	76.0	(0.9)	1.1	(0.3)	0.0	C
Hong Kong (China)	1.1	(0.1)	5.6	(0.4)	26.0	(0.7)	66.7	(0.7)	0.6	(0.5)	0.0	C
Indonesia	2.1	(0.3)	8.1	(0.7)	42.1	(1.5)	45.5	(1.6)	2.3	(0.4)	0.0	(0.0)
Jordan	0.2	(0.1)	0.6	(0.1)	6.6	(0.4)	92.6	(0.4)	0.0	С	0.0	С
Kosovo	0.0	(0.1)	0.6	(0.1)	24.9	(0.8)	72.4	(0.9)	2.1	(0.2)	0.0	C
Lebanon	3.7	(0.5)	8.3	(0.8)	16.6	(1.1)	62.3	(1.4)	9.0	(0.8)	0.1	(0.1)
Lithuania	0.1	(0.0)	2.6	(0.2)	86.3	(0.4)	11.0	(0.4)	0.0	(0.0)	0.0	C
Macao (China)	2.9	(0.1)	12.2	(0.2)	29.7	(0.2)	54.5	(0.1)	0.6	(0.1)	0.0	C
Malta	0.0	С	0.0	С	0.3	(0.1)	6.1	(0.2)	93.6	(0.1)	0.1	(0.0)
Moldova	0.2	(0.1)	7.6	(0.5)	84.5	(0.8)	7.5	(0.8)	0.0	(0.0)	0.0	C
Montenegro	0.0	С	0.0	С	83.7	(0.1)	16.3	(0.1)	0.0	С	0.0	C
Peru	2.5	(0.3)	6.6	(0.4)	15.9	(0.5)	50.2	(0.8)	24.8	(0.8)	0.0	C
Qatar	0.9	(0.1)	3.5	(0.1)	16.3	(0.1)	60.7	(0.1)	18.0	(0.1)	0.6	(0.0)
Romania	1.4	(0.3)	8.9	(0.5)	74.8	(0.9)	14.9	(0.7)	0.0	С	0.0	(
Russia	0.2	(0.1)	6.6	(0.3)	79.7	(1.5)	13.4	(1.5)	0.1	(0.0)	0.0	(
Singapore	0.0	(0.0)	1.9	(0.3)	7.9	(0.8)	90.0	(1.0)	0.1	(0.0)	0.1	(0.0)
Chinese Taipei	0.0	(0.0)	0.0	(0.5) C	35.4	(0.7)	64.6	(0.7)	0.0	(0.0) C	0.0	(0.0)
Thailand	0.2	(0.1)	0.6	(0.2)	23.8	(1.0)	72.9	(1.0)	2.4	(0.4)	0.0	(
Trinidad and Tobago	3.3	(0.2)	10.8	(0.2)	27.3	(0.3)	56.5	(0.3)	2.2	(0.2)	0.0	
Tunisia	4.3	(0.2)	10.6	(0.8)	19.6	(1.3)	60.9	(1.7)	4.6	(0.4)	0.0	(
United Arab Emirates	0.6	(0.1)	2.5	(0.3)	10.6	(0.7)	53.4	(0.8)	31.4	(0.4)	1.5	(0.1)
Uruguay	7.5	(0.1)	9.7	(0.5)	20.7	(0.7)	61.3	(1.2)	0.8	(0.0)	0.0	(0.1
Viet Nam	0.3		1.7		7.7		90.4		0.0	(0.1)	0.0	
		(0.1)		(0.4)		(1.8)		(2.2)				C
Argentina**	1.6	(0.4)	9.7	(0.8)	27.4	(1.2)	58.5	(1.6)	2.8	(0.3)	0.0	C
Kazakhstan**	0.1	(0.1)	2.7	(0.3)	60.4	(1.7)	36.2	(1.8)	0.6	(0.1)	0.0	C
Malaysia**	0.0	С	0.0	С	3.2	(0.6)	96.4	(0.7)	0.4	(0.3)	0.0	(

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** In http://dx.doi.org/10.1787/888933433129



[Part 1/1]

Table A2.4b Percentage of students at each grade level

		itag					В	oys											Gi	irls					
		7th	grade	8th	grade	9th	grade	10th	grade	11th	grade	12th		7th s	grade	8th c	grade	9th	grade	10th	grade	11th	grade		grade above
		%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Q.	Australia	0.0	(0.0)	0.2	(0.1)	13.2	(0.4)		(0.5)	13.1	(0.5)	0.0	(0.0)	0.0	(0.0)	0.1	(0.0)	9.2	(0.3)	75.7	(0.5)	14.9	(0.6)	0.1	(0.1)
OECD	Austria	0.1	(0.1)	2.0	(0.4)	21.6	(1.2)		(1.2)	5.2	(0.4)	0.0	(0.0)	0.0	С	2.0	(0.9)	20.0	(1.0)	71.4		6.6	(0.4)	0.0	(0.0)
0	Belgium	0.7	(0.1)	6.7	(0.5)	33.6	(1.0)		(1.1)	1.2	(0.2)	0.0	(O, O)	0.6	(0.1)	6.2	(0.5)	27.7	(0.8)	64.2		1.3	(0.1)	0.0	(0.0)
	Canada Chile	0.1	(0.1)	1.0		11.7 26.4	(0.6)		(0.6)	0.7	(0.1)	0.0	(0.0)	0.1	(0.0)	0.4 3.5	(0.1)	9.9	(0.6)	88.8 71.4		0.8	(0.1)	0.0	(0.0)
	Czech Republic	0.6	(0.2)	5.5	(0.5)	52.3	(1.5)		(1.6)	0.0	(0.2)	0.0	(0.1) C	0.4	(0.4)	2.2	(0.7)	46.2	(1.5)		(1.6)	0.0	(U.3)	0.0	C C
	Denmark	0.3	(0.1)	21.9	(0.9)	76.6	(1.0)		(0.5)	0.0	C	0.0	С	0.1	(0.1)	10.8	(0.5)	87.3	(0.7)	1.7	(0.6)	0.0	С	0.0	С
	Estonia	1.3	(0.3)	23.7	(0.9)	74.2	(0.8)		(0.3)	0.0	С	0.0	(0.0)	0.2	(0.1)	18.8	(0.8)	79.1	(0.8)	1.9	(0.4)	0.0	С	0.0	С
	Finland	0.4	(0.1)	15.5	(0.6)	83.9	(0.6)		(0.0)	0.2	(0.1)	0.0	C	0.5	(0.1)	11.5	(0.5)	87.7	(0.5)	0.0	C	0.3	(0.2)	0.0	C
	France	0.0	(O 2)	1.0	(0.2)	26.1	(0.9)		(1.0)	3.1	(0.3)	0.2	(0.1)	0.1	(0.1)	1.0	(0.2)	20.1	(0.6)	75.4		3.3	(0.3)	0.1	(0.0)
	Germany Greece	0.7	(0.2)	9.0	(0.5)	50.1	(1.0)		(1.0)	0.0	(0.4)	0.0	(0.0)	0.3	(0.1)	0.2	(0.6)	44.3 2.8	(0.9)		(1.0)	0.0	(0.6)	0.0	C
	Hungary	1.8	(0.4)	10.1	(0.6)	75.6	(0.9)		(0.6)	0.0	С	0.0	С	1.6	(0.4)	6.9	(0.8)	76.0	(0.9)	15.5	(0.7)	0.0	С	0.0	С
	Iceland	0.0	С	0.0	С	0.0	С	100.0	С	0.0	С	0.0	С	0.0	С	0.0	С	0.0	С	100.0	С	0.0	С	0.0	С
	Ireland	0.0	С	2.2	(0.3)	62.8	(0.9)		(1.2)	10.9	(1.0)	0.0	С	0.0	(0.0)	1.4	(0.2)	58.2	(0.9)		(1.4)	11.3	(1.1)	0.0	С
	Israel	0.0	C	0.1	(0.1)	18.0	(1.2)		(1.3)	1.1	(0.6)	0.0	С	0.0	С	0.1	(0.0)	14.9	(0.8)		(0.8)	0.7	(0.1)	0.0	С
	Italy	0.2	(0.1)	1.3	(0.3)	18.1	(0.8)		(0.9)	5.4	(0.4)	0.0	С	0.1	(0.0)	0.7	(0.2)	12.2	(0.8)		(1.0)	7.7	(0.5)	0.0	С
	Japan Korea	0.0	C	0.0	C	0.0	(1.4)	100.0	(1.4)	0.0	(0.1)	0.0	C	0.0	C	0.0	C	0.0	(0.8)	100.0 91.5	(0.8)	0.0	(0.1)	0.0	C C
	Latvia	1.5	(0.4)	14.7	(0.8)	81.8	(0.9)		(0.3)	0.0	(0.0)	0.0	С	0.4	(0.2)	8.7	(0.7)	87.0	(0.7)		(0.4)	0.0	(0.1) C	0.0	С
	Luxembourg	0.2	(0.1)	9.4	(0.2)	52.4	(0.3)		(0.2)	0.7	(0.1)	0.0	С	0.3	(0.1)	6.4	(0.2)	49.4	(0.2)		(0.2)	0.6	(0.1)	0.0	С
	Mexico	3.1	(0.5)	5.9	(0.6)	32.2	(1.5)		(1.6)	0.6	(0.2)	0.2	(0.0)	1.5	(0.3)	3.7	(0.4)	31.6	(1.7)		(1.7)	0.4	(0.1)	0.2	(0.1)
	Netherlands	0.0	(0.0)	3.8		45.3	(0.8)		(0.8)	0.8	(0.3)	0.0	C (0.5)	0.1	(0.0)	1.9	(0.3)	38.0	(0.7)	59.3		0.7	(0.2)	0.0	(0.0)
	New Zealand	0.0	C	0.0	С	0.0	(O 2)		(0.5)	88.6	(0.8)	4.5 0.0	(0.5)	0.0	С	0.0	С	0.0	(0.0)		(0.4)	89.1	(0.6)	5.5	(0.6)
	Norway Poland	0.0	(0.2)	6.8	(0.5)	92.1	(0.2)		(0.2)	0.1	(0.1)	0.0	C C	0.0	(0.1)	3.0	(0.3)	95.6	(0.1)		(0.1)	0.0	(U.1)	0.0	C
	Portugal	4.2	(0.4)	10.5	(0.7)	25.4	(1.0)		(1.4)	0.3	(0.1)	0.0	С	2.1	(0.4)	6.4	(0.5)	20.5	(0.9)	70.5		0.5	(0.1)	0.0	С
	Slovak Republic	2.4	(0.4)	4.8	(0.5)	43.5	(1.6)		(1.8)	0.0	С	0.0	С	1.9	(0.5)	4.3	(0.6)	41.7	(1.8)	51.9		0.1	(0.1)	0.0	С
	Slovenia	0.0	С	0.5	(0.2)	5.4	(0.7)		(0.7)	0.2	(0.1)	0.0	С	0.0	С	0.2	(0.1)	4.1	(0.6)	95.3		0.4	(0.2)	0.0	С
	Spain	0.1	(0.1)	10.7	(0.7)	25.4	(8.0)		(1.1)	0.1	(0.1)	0.0	С	0.0	С	6.5	(0.5)	21.3	(0.8)		(1.0)	0.1	(0.1)	0.0	С
	Sweden Switzerland	0.1	(0.1)	3.5 13.4	(0.5)	95.0 60.7	(0.9)		(0.7)	0.1	(0.1)	0.0	С	0.2	(0.1)	2.6	(0.4)	94.9	(1.0)	2.3	(0.9)	0.1	(0.1)	0.0	(0.0)
	Turkey	0.8	(0.2)	3.1	(0.6)	25.4	(1.1)		(1.6)	2.2	(0.1)	0.0	(0.1)	0.3		2.1	(0.4)	16.1	(1.1)	77.5		3.8	(0.4)	0.0	(0.0)
	United Kingdom	0.0	(O.5)	0.0	(0.0) C	0.0	C		(0.5)	97.3	(0.6)	0.9	(0.3)	0.0	(O.2)	0.0	(O. 1)	0.0	C		(0.2)	97.5	(0.3)	1.1	(0.3)
	United States	0.0	С	0.5	(0.4)	11.6	(0.8)	72.4	(1.0)	15.3	(0.7)	0.2	(0.1)	0.1	(0.1)	0.5	(0.2)	7.6	(0.6)	72.4	(0.9)	19.4	(0.7)	0.1	(0.0)
-2	Albania	0.2	(0.2)	0.9	(0.2)	41.2	(2.7)	56.3	(2.6)	1.3	(0.9)	0.0	(0.0)	0.1	(0.1)	1.1	(0.3)	30.4	(2.1)	67.1	(2.2)	1.2	(0.5)	0.1	(0.0)
artners	Algeria	24.4	(1.3)	25.7	(1.2)	32.6	(1.5)	14.7	(1.9)	2.6	(0.7)	0.0	С	12.6	(1.1)	21.0	(1.2)	37.9	(2.0)		(2.5)	3.9	(8.0)	0.0	C
Par	Brazil	4.6	(0.3)	7.8	(0.6)	13.9	(0.6)		(1.0)	35.3	(0.9)	1.8	(0.2)	2.4	(0.2)	5.0	(0.4)	11.1	(0.6)		(0.9)	43.0	(0.9)	3.1	(0.2)
	B-S-J-G (China) Bulgaria	1.2	(0.2)	9.9	(0.7)	55.4 91.8	(1.7)		(1.9)	1.9	(0.5)	0.1	(0.0)	1.1	(0.2)	8.4	(0.8)	49.6 92.7	(1.8)		(2.2)	2.6	(0.5)	0.1	(0.1)
	Colombia	7.2	(0.2)	14.3	(0.8)	25.2	(1.0)		(0.4)	16.2	(0.8)	0.0	C C	0.4 3.6	(0.4)	1.8	(0.4)	20.5	(0.7)		(0.4)	22.5	(0.8)	0.0	C C
	Costa Rica	7.8	(0.8)	16.7	(0.8)	34.3	(1.2)		(1.5)	0.1	(0.0)	0.0	С	4.7	(0.7)	11.4	(0.7)	31.8	(1.4)	51.6		0.3	(0.1)	0.2	(0.1)
	Croatia	0.0	С	0.2	(0.1)	80.5	(0.5)		(0.5)	0.0	С	0.0	С	0.0	С	0.3	(0.2)	78.0	(0.7)	21.7	(0.7)	0.0	С	0.0	С
	Cyprus*	0.0	С	0.3	(0.1)	6.6	(0.2)		(0.2)	0.6	(0.1)	0.0	С	0.0	С	0.3	(0.1)	5.1	(0.2)		(0.2)	0.8	(0.1)	0.0	С
	Dominican Republic	10.3	(1.1)	16.4	(1.5)	23.3	(1.2)		(1.4)	11.1	(0.8)	1.7	(0.3)	4.0	(0.6)	11.2	(1.1)	18.1	(0.8)	46.5		17.2	(0.8)	3.0	(0.3)
	FYROM	0.2	(0.2)	0.2	(0.2)	70.9	(0.3)		(0.2)	0.0	(0.2)	0.0	С	0.0	(0.1)	0.0	(0.2)	69.4	(0.3)		(0.3)	0.0	(0.4)	0.0	С
	Georgia Hong Kong (China)	1.3	(0.0)	6.4		28.5	(0.8)		(0.9)	0.5	(0.4)	0.0	C	1.0	(0.1)	4.7	(0.4)	23.5	(0.8)		(0.9)	0.6	(0.4)	0.0	C C
	Indonesia	2.5	(0.4)	8.9	(0.9)	44.3	(1.9)		(2.0)	2.1	(0.4)	0.0	(0.0)	1.7	(0.3)	7.2	(1.0)	39.8	(1.9)		(2.1)	2.4	(0.4)	0.0	c
	Jordan	0.1	(0.1)	0.5	(0.1)	6.6	(0.7)		(0.7)	0.0	С	0.0	С	0.2	(0.1)	0.7	(0.1)	6.6	(0.6)	92.4		0.0	С	0.0	С
	Kosovo	0.1	(0.1)	0.5	(0.1)	26.4	(0.9)		(1.0)	1.6	(0.3)	0.0	C (0.1)	0.0	C	0.7	(0.2)	23.5	(1.0)		(1.0)	2.5	(0.3)	0.0	C (0.1)
	Lebanon	4.0	(0.6)	8.2	(0.9)	17.2	(1.4)		(1.7)	6.9	(0.7)	0.2	(0.1)	3.4	(0.6)	8.3	(1.0)	16.1	(1.2)		(1.8)	10.8	(1.2)	0.1	(0.1)
	Lithuania Macao (China)	0.2	(0.1)	3.5	(0.3)	87.4 30.8	(0.6)		(0.5)	0.0	(0.0)	0.0	C	0.0	(0.0)	1.7 8.0	(0.2)	85.1 28.7	(0.7)	13.1	(0.6)	0.0	(0.0)	0.0	C C
	Malta	0.0	(0.2) C	0.0	(0.3) C	0.5	(0.1)		(0.2)	92.7	(0.1)	0.0	С	0.0	(0.2) C	0.0	(0.2) C	0.1	(0.0)		(0.2)	94.4	(0.2)	0.1	(0.1)
	Moldova	0.3	(0.1)	8.2	(0.7)		(0.9)	5.0	(0.9)	0.1	(0.1)	0.0	С	0.2	(0.1)	7.0	(0.6)	82.8	(1.2)	10.1	(1.2)	0.0	С	0.0	С
	Montenegro	0.0	С	0.0	С	85.2	(0.2)		(0.2)	0.0	С	0.0	С	0.0	С	0.0	С	82.2	(0.2)	17.8		0.0	С	0.0	С
	Peru	3.0	(0.5)	7.5		17.9	(0.7)		(0.9)	22.9	(1.0)	0.0	(O 1)	1.9		5.6	(0.5)	14.0	(0.6)	51.7		26.8	(0.9)	0.0	(O 1)
	Qatar Romania	0.8	(0.1)	3.6		18.0 74.3	(0.2)	59.3 13.3		17.6	(0.2) C	0.6	(0.1) C	1.0	(0.1)	3.4 7.2	(0.1)	14.5 75.3	(0.1)	62.1 16.4		18.4	(0.2) C	0.6	(0.1) C
	Russia	0.2	(0.1)	7.2		80.1	(1.7)	12.4		0.0	(0.0)	0.0	С	0.1	(0.1)	6.0	(0.4)	79.3	(1.5)	14.4		0.0	(0.1)	0.0	С
	Singapore	0.1	(0.0)	1.8		8.9	(0.9)		(1.1)	0.1	(0.1)		(0.0)	0.0	(0.0)	2.0	(0.4)	6.9	(0.8)	90.8		0.2	(0.1)	0.1	(0.0)
	Chinese Taipei	0.0	С	0.0	С	36.5	(1.3)	63.5	(1.3)	0.0	С	0.0	С	0.0	C	0.0	С	34.3	(1.3)	65.7		0.0	С	0.0	С
	Thailand	0.2	(0.1)	0.8		25.4		71.4		2.3	(0.4)	0.0	С	0.3		0.5	(0.2)	22.5	(1.3)	74.1		2.6	(0.4)	0.0	С
	Trinidad and Tobago Tunisia	3.7	(0.3)	14.2		30.8		48.9		2.4	(0.2)	0.0	C	2.8		7.5	(0.4)	23.8	(0.4)	63.9		2.0	(0.3)	0.0	C
	United Arab Emirates	5.9	(0.5)	13.8	(1.0)	22.0 11.4		54.0 54.0		29.6	(0.5)	0.0	(0.2)	3.0 0.4		7.8	(0.7)	17.5 9.9	(1.4)	67.0 52.8		4.8 33.1	(0.5)	0.0 1.6	(0.2)
	Uruguay	9.2	(0.1)	11.2		22.5		56.5			(0.1)	0.0	(0.2) C		(0.7)		(0.6)	19.0	(0.8)	65.6		1.1	(0.2)	0.0	(0.2) C
	Viet Nam	0.5	(0.2)	2.3				86.1		0.0	(O.1)	0.0	С	0.1	(0.0)	1.1		4.6	(1.2)	94.2		0.0	(0.0)	0.0	С
						-		L E C O	/1 O\	1 2 4	(0.2)		_	1.0	(0.2)	0 1		26.9	(1.4)	600	(1.7)	22	(0.3)	0.0	С
	Argentina**	2.3	(0.6)	111.5	(0.9)	127.0	(1.3)	1 56.0	(1.0)	2.4	(0.3)	0.0	C	1.0	(0.3)	0.1	(0.5)	120.9		00.0		3.2	(0.3)	0.0	
	Argentina** Kazakhstan** Malaysia**	0.1	(0.6)	3.1	(0.4)	27.8 62.8	(2.3)	56.0 33.5 95.4	(2.4)	0.5	(0.3) (0.1) (0.3)	0.0	C C	1.0 0.1	(0.3)	8.1 2.3	(0.3)		(1.7)	39.0 97.2	(1.8)	3.2 0.7	(0.3)	0.0	C

Reference

OECD (forthcoming), PISA 2015 Technical Report, PISA, OECD Publishing, Paris.

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** http://dx.doi.org/10.1787/888933433129



TECHNICAL NOTES ON ANALYSES IN THIS VOLUME

Methods and definitions

Odds ratio

The odds ratio is a measure of the relative likelihood of a particular outcome across two groups. The odds ratio for observing the outcome when an antecedent is present is simply

$$OR = \frac{(p_{11}/p_{12})}{(p_{21}/p_{22})}$$

where P_{11}/P_{12} represents the "odds" of observing the outcome when the antecedent is present, and P_{21}/P_{22} represents the "odds" of observing the outcome when the antecedent is not present.

Logistic regression can be used to estimate the log ratio: the exponentiated logit coefficient for a binary variable is equivalent to the odds ratio. A "generalised" odds ratio, after accounting for other differences across groups, can be estimated by introducing control variables in the logistic regression.

Statistics based on multilevel models

Statistics based on multilevel models include variance components (between- and within-school variance), the index of inclusion derived from these components, and regression coefficients where this has been indicated. Multilevel models are generally specified as two-level regression models (the student and school levels), with normally distributed residuals, and estimated with maximum likelihood estimation. Where the dependent variable is science, reading or mathematics performance, the estimation uses ten plausible values for each student's performance on the mathematics scale. Models were estimated using the Stata ® (version 14.1) "mixed" module. The three-level regression models in Chapter 7 are estimated with HLM® (version 6.06) using only five plausible values of science performance.

In multilevel models, weights are used at both the student and school levels. The purpose of these weights is to account for differences in the probabilities of students being selected in the sample. Since PISA applies a two-stage sampling procedure, these differences are due to factors at both the school and the student levels. For the multilevel models, student final weights (W_FSTUWT) were used. Within-school weights correspond to student final weights, rescaled to amount to the sample size within each school. Between-school weights correspond to the sum of final student weights (W_FSTUWT) within each school. The definition of between-school weights is the same as in PISA 2012 initial reports. For the three-level regression models in Chaper 7, the sum of the weights is the same across education systems so that each education system contributes equally to the results.

The index of inclusion is based on the intraclass correlation and is estimated as:

$$100* \frac{\sigma_w^2}{\sigma_w^2 + \sigma_h^2}$$

where σ_w^2 and σ_b^2 represent the within- and between-variance estimates, respectively.

The results in multilevel models, and the between-school variance estimate in particular, depend on how schools are defined and organised within countries and by the units that were chosen for sampling purposes. For example, in some countries, some of the schools in the PISA sample were defined as administrative units (even if they spanned several geographically separate institutions, as in Italy); in others they were defined as those parts of larger educational institutions that serve 15-year-olds; in still others they were defined as physical school buildings; and in others they were defined from a management perspective (e.g. entities having a principal). The *PISA 2015 Technical Report* (OECD, forthcoming) and Annex A2 provide an overview of how schools are defined. In Slovenia, the primary sampling unit is defined as a group of students who follow the same study programme within a school (an education track within a school). So in this case, the between-school variation is actually the between-track variation. The use of stratification variables in the selection of schools may also affect the estimate of the between-school variation, particularly if stratification variables are associated with between-school differences.

Because of the manner in which students were sampled, the within-school variation includes variation between classes as well as between students.



Multiple imputation

Multiple imputation replaces each missing value with a set of plausible values that represent the uncertainty about the right value to impute. The multiple imputed data sets are then analysed by using standard procedures for complete data and by combining results from these analyses. For the three-level regression models presented in Figure II.7.2 five imputed values were computed for each missing value using the predictive mean matching method in SAS® PROC MI. Five plausible values of science performance were then analysed by the HLM® software using one of the five imputed data sets.

Diversity index of grade levels

The diversity index of grade levels is based on the Herfindahl index and can be interpreted as the probability (in %) that two students selected at random are enrolled in different grades. It is defined as:

$$D=100-((\sum_{g=1}^{C}p_g^2)*100))$$

where p_g is the proportion of students enrolled in grade level g.

Standard errors and significance tests

The statistics in this report represent estimates of national performance based on samples of students, rather than values that could be calculated if every student in every country had answered every question. Consequently, it is important to measure the degree of uncertainty of the estimates. In PISA, each estimate has an associated degree of uncertainty, which is expressed through a standard error. The use of confidence intervals provides a way to make inferences about the population means and proportions in a manner that reflects the uncertainty associated with the sample estimates. From an observed sample statistic and assuming a normal distribution, it can be inferred that the corresponding population result would lie within the confidence interval in 95 out of 100 replications of the measurement on different samples drawn from the same population.

In many cases, readers are primarily interested in whether a given value in a particular country is different from a second value in the same or another country, e.g. whether girls in a country perform better than boys in the same country. In the tables and charts used in this report, differences are labelled as statistically significant if the probability of reporting a difference when there is actually no such difference in corresponding population values is lower than 5%. Similarly, the risk of reporting a correlation as significant if there is, in fact, no correlation between two measures, is contained at 5%.

Throughout the report, significance tests were undertaken to assess the statistical significance of the comparisons made.

Differences between subgroup means

Differences between groups of students (e.g. students who have skipped a day of school and students who have not skipped a day of school) or categories of schools (e.g. advantaged and disadvantaged schools) were tested for statistical significance. The definitions of the subgroups can, in general, be found in the tables and the text accompanying the analysis. Socio-economically (dis)advantaged schools, for instance, are defined as schools in the (bottom) top quarter of the distribution of the average PISA index of economic, social and cultural status (ESCS) across schools within each country/economy. All differences marked in bold in the tables presented in Annex B of this report are statistically significant at the 95% level.

Change in the performance per unit of an index

For many tables, the difference in student performance per unit of an index was calculated. Figures in bold indicate that the differences are statistically significantly different from zero at the 95% confidence level.

Odds ratio

Figures in bold in the data tables presented in Annex B of this report indicate that the relative risk/odds ratio is statistically significantly different from 1 at the 95% confidence level. To compute statistical significance around the value of 1 (the null hypothesis), the relative-risk/odds-ratio statistic is assumed to follow a log-normal distribution, rather than a normal distribution, under the null hypothesis.

Multilevel models

The standard errors of multilevel models are not estimated with the usual replication method, which accounts for stratification and sampling rates from finite populations. Instead, standard errors are "model-based": their computation assumes that schools, and students within schools, are sampled at random (with sampling probabilities reflected in school and student weights) from a theoretical, infinite population of schools and students which complies with the model's parametric assumptions.

The standard error for the estimated index of inclusion is calculated by deriving an approximate distribution for it from the (model-based) standard errors for the variance components, using the delta-method.



Multiple imputation

The standard errors take into account the between-imputation variance. The standard errors of the results presented in Figure II.7.2 therefore consist of sampling variance, cognitive test measurement variance and error due to the imputation of missing values.

Reference

Gorard, S. and C. Taylor (2002), "What is segregation? A comparison of measures in terms of 'strong' and 'weak' compositional invariance", Sociology, Vol.36/4, pp. 875-895, http://dx.doi.org/10.1177/003803850203600405.



ANNEX A4 QUALITY ASSURANCE

Quality assurance procedures were implemented in all parts of PISA 2015, as was done for all previous PISA surveys. The PISA 2015 Technical Standards (www.oecd.org/pisa/) specify the way in which PISA must be implemented in each country, economy and adjudicated region. International contractors monitor the implementation in each of these and adjudicate on their adherence to the standards.

The consistent quality and linguistic equivalence of the PISA 2015 assessment instruments were facilitated by assessing the ease with which the original English version could be translated. Two source versions of the assessment instruments, in English and French were prepared (except for the financial literacy assessment and the operational manuals, which were provided only in English) in order for countries to conduct a double translation design, i.e. two independent translations from the source language(s), and reconciliation by a third person. Detailed instructions for the localisation (adaptation, translation and validation) of the instruments for the field trial and for their review for the main survey, and translation/adaptation guidelines were supplied. An independent team of expert verifiers, appointed and trained by the PISA Consortium, verified each national version against the English and/or French source versions. These translators' mother tongue was the language of instruction in the country concerned, and the translators were knowledgeable about education systems. For further information on PISA translation procedures, see the *PISA 2015 Technical Report* (OECD, forthcoming).

The survey was implemented through standardised procedures. The PISA Consortium provided comprehensive manuals that explained the implementation of the survey, including precise instructions for the work of school co-ordinators and scripts for test administrators to use during the assessment sessions. Proposed adaptations to survey procedures, or proposed modifications to the assessment session script, were submitted to the PISA Consortium for approval prior to verification. The PISA Consortium then verified the national translation and adaptation of these manuals.

To establish the credibility of PISA as valid and unbiased and to encourage uniformity in administering the assessment sessions, test administrators in participating countries were selected using the following criteria: it was required that the test administrator not be the science, reading or mathematics instructor of any students in the sessions he or she would conduct for PISA; and it was considered preferable that the test administrator not be a member of the staff of any school in the PISA sample. Participating countries organised an in-person training session for test administrators.

Participating countries and economies were required to ensure that test administrators worked with the school co-ordinator to prepare the assessment session, including reviewing and updating the Student Tracking Form; completing the Session Attendance Form, which is designed to record students' attendance and instruments allocation; completing the Session Report Form, which is designed to summarise session times, any disturbance to the session, etc.; ensuring that the number of test booklets and questionnaires collected from students tallied with the number sent to the school (paper-based assessment countries) or ensuring that the number of USB sticks used for the assessment were accounted for (computer-based assessment countries); and sending the school questionnaire, student questionnaires, parent and teacher questionnaires (if applicable), and all test materials (both completed and not completed) to the national centre after the testing.

The PISA Consortium responsible for overseeing survey operations implemented all phases of the PISA Quality Monitor (PQM) process: interviewing and hiring PQM candidates in each of the countries, organising their training, selecting the schools to visit, and collecting information from the PQM visits. PQMs are independent contractors located in participating countries who are hired by the international survey operations contractor. They visit a sample of schools to observe test administration and to record the implementation of the documented field-operations procedures in the main survey.

Typically, two or three PQMs were hired for each country, and they visited an average of 15 schools in each country. If there were adjudicated regions in a country, it was usually necessary to hire additional PQMs, as a minimum of five schools were observed in adjudicated regions.

All quality-assurance data collected throughout the PISA 2015 assessment were entered and collated in a central data-adjudication database on the quality of field operations, printing, translation, school and student sampling, and coding.



Comprehensive reports were then generated for the PISA Adjudication Group. This group was formed by the Technical Advisory Group and the Sampling Referee. Its role is to review the adjudication database and reports to recommend adequate treatment to preserve the quality of PISA data. For further information, see the *PISA 2015 Technical Report* (OECD, forthcoming).

The results of adjudication and subsequent further examinations showed that the PISA Technical Standards were met in all countries and economies that participated in PISA 2015 except for those countries listed below:

- In Albania, the PISA assessment was conducted in accordance with the operational standards and guidelines of the OECD. However, because of the ways in which the data were captured, it was not possible to match the data in the test with the data from the student questionnaire. As a result, Albania cannot be included in analyses that relate students' responses from the questionnaires to the test results.
- In Argentina, the PISA assessment was conducted in accordance with the operational standards and guidelines of the OECD. However, there was a significant decline in the proportion of 15-year-olds who were covered by the test, both in absolute and relative numbers. There had been a re-structuring of Argentina's secondary schools, except for those in the adjudicated region of Ciudad Autónoma de Buenos Aires, which is likely to have affected the coverage of eligible schools listed in the sampling frame. As a result, Argentina's results may not be comparable to those of other countries or to results for Argentina from previous years.
- In Kazakhstan, the national coders were found to be lenient in marking. Consequently, the human-coded items did not meet PISA standards and were excluded from the international data. Since human-coded items form an important part of the constructs that are tested by PISA, the exclusion of these items resulted in a significantly smaller coverage of the PISA test. As a result, Kazakhstan's results may not be comparable to those of other countries or to results for Kazakhstan from previous years.
- In Malaysia, the PISA assessment was conducted in accordance with the operational standards and guidelines of the OECD. However, the weighted response rate among the initially sampled Malaysian schools (51%) falls well short of the standard PISA response rate of 85%. Therefore, the results may not be comparable to those of other countries or to results for Malaysia from previous years.

Reference



CHANGES IN THE ADMINISTRATION AND SCALING OF PISA 2015 AND IMPLICATIONS FOR TRENDS ANALYSES

Available on line only.

It can be found at: www.oecd.org/pisa



SYSTEM-LEVEL DATA COLLECTION FOR PISA 2015: SOURCES, COMMENTS AND TECHNICAL NOTES

Available on line only.

It can be found at: www.oecd.org/pisa



GUIDELINES AND CAVEATS ABOUT INTERPRETING THE RESULTS

Interpreting the data from students, parents and schools

PISA 2015 asked students and school principals to answer questions about the learning environment and organisation of schools, and the social and economic contexts in which learning takes place. Information based on their responses has been weighted so that it reflects the number of 15-year-old students enrolled in grade 7 or above. These are self-reports rather than external observations and may be influenced by cultural differences in how individuals respond. For example, individual students in the same classroom may perceive and report classroom situations in different ways, or respondents may provide responses that are considered to be more socially desirable or acceptable than others.

In addition to the general limitation of self-reported data, there are other limitations, particularly those concerning the information collected from principals, that should be taken into account when interpreting the data:

- On average across OECD countries, 268 principals were surveyed, but in 10 countries and economies, fewer than 150 principals were surveyed, and in Ciudad Autónoma de Buenos Aires (Argentina), Luxembourg, Macao (China), Malta and Montenegro, fewer than 100 principals were surveyed (Table A7.1). Although principals can provide information about their schools, generalising from a single source of information for each school is not straightforward. Also, principals' perceptions may not be the most appropriate sources of some information related to teachers, such as teachers' morale and commitment.
- Students' attitudes towards learning and their performance in each subject depend on many factors, including all the education that they have acquired in previous years and their experiences outside the school setting. In most cases, 15-year-old students have been in their current school for only two or three years. The learning environment examined by PISA may therefore only partially reflect the learning environment that shaped students' experiences in education earlier in their school careers. To the extent that students' current learning environment differs from that of their earlier school years, the contextual data collected by PISA are an imperfect proxy for students' cumulative learning environments.
- In some countries and economies, the definition of the school in which students are taught is not straightforward because schools vary in the level and purpose of education. For example, in some countries and economies, subunits within schools (e.g. study programmes, shifts and campuses) were sampled instead of schools as administrative units. See Annex A2 for further information.
- The age-based sampling followed in PISA means that, in some education systems, students are not always representative of their schools. Interpreting differences between schools correctly therefore requires specific knowledge about how school systems are structured (see Box II.5.1 for details on the specific case of grade repetition).

Despite these caveats, information from the school questionnaire provides unique insights into the ways in which national and subnational authorities seek to realise their education objectives.

Schooling and school effects

In using results from non-experimental data on school performance, such as the PISA Database, it is important to bear in mind the distinction between school effects and the effects of schooling, particularly when interpreting the modest association between factors such as school resources, policies and institutional characteristics and student performance. School effects are education researchers' shorthand for the effect on academic performance of attending one school or another, usually schools that differ in resources or policies and institutional characteristics. Where schools and school systems do not vary in fundamental ways, the school effect can be modest. Nevertheless, modest school effects should not be confused with a lack of an effect of schooling (the influence on performance of not being schooled compared with being schooled).

Interpreting correlations

A correlation is a simple statistic that measures the degree to which two variables are associated with each other, but does not prove causality between the two.

Interpreting results before and after accounting for socio-economic status

When examining the relationship between education outcomes and resources, policies and practices within school systems, this volume takes into account the socio-economic differences among students and schools. The advantage of doing this lies in comparing similar entities, namely students and schools with similar socio-economic profiles. At the same time, there is a risk that such adjusted comparisons underestimate the strength of the relationship between student performance and resources, policies and practices, since most of the differences in performance are often attributable to both policies and socio-economic status.



Conversely, analyses that do not take socio-economic status into account can overstate the relationship between student performance and resources, policies and practices, as the level of resources and the kinds of policies adopted may also relate to the socio-economic profile of students, schools and countries and economies. At the same time, analyses without adjustments may paint a more realistic picture of the schools that parents choose for their children. They may also provide more information for other stakeholders who are interested in the overall performance of students, schools and systems, including any effects that may be related to the socio-economic profile of schools and systems. For example, parents may be primarily interested in a school's absolute performance standards, even if a school's higher achievement record stems partially from the fact that the school has a larger proportion of advantaged students.

Interpreting the results by school characteristics

When presenting the results by the socio-economic profile of schools, the location of schools, the type of school or the education level, the number of students and schools in each subsample has to meet the PISA reporting requirements of at least 30 students and 5 schools. Even when these reporting requirements are met, the reader should interpret the results cautiously when the number of students or schools is just above the threshold. Table A7.1, available online, shows the unweighted number of students and schools by school characteristics in the PISA sample so that the reader can interpret the results appropriately.

Interpreting the predominant figure in this report

To report results in as condensed a way as possible, this report uses a figure that shows simultaneously, for a particular policy or practice, the country average, the differences across types of schools, and its association with science performance, before and after accounting for the socio-economic profile of students and schools. In Chapter 2, the association of the policy or practice with students' epistemic beliefs and expectation of working in science-related occupation is also presented. Figure A7.1 provides an explanation of the results presented in each column so that readers can interpret the findings correctly.

Positive difference/association Negative difference/association Country/economy average Difference/association is not significant Percentage of parents who consider schools' Missing values low expenses "important" or "very important" School characteristics Science performance when choosing a school for their child Advantaged -Before ESCS¹ Urban Private -After disadvantaged ESCS rural public Dominican Republic Georgia Mexico No difference Portugal Negative difference Negative association Spain Malta Korea OECD average Ireland France Croatia Hong Kong (China) No results Luxembourg Macao (China Scotland (UK) No association Italy German Belgium (Él. Education systems with a positive difference/association Education systems with no difference/association (5) 6 (13) Education systems with a negative difference/association Differences Association with science performance, Differences Differences between students between students between students before and after accounting for the in urban and rural schools. There are socio-economic status of students and schools. In 13 school systems in socioin private and public schools. economically advantaged and disadvantaged 6 school systems (excludes the There are 5 school systems where (excludes OECD average) students whose parents consider the schools' schools OECD average) there are no low expenses "important" or "very Dark blue where the parents whose child important" score lower in science differences in the indicates that importance given to the schools' than students whose parents consider schools' low expenses attends a rural the parents whose child school give more importance to low expenses "somewhat important" "not important", after accounting attends an between the advantaged for the socio-economic status the schools' low parents whose expenses than the parents whose school give more child attends a of students and schools private school and importance to the schools' low child attends the parents whose expenses than an urban school child attends a public school the parents whose child attends a disadvantaged

Figure A7.1 Interpreting the predominant figure in this report

^{1.} ESCS refers to the PISA index of economic, social and cultural status. **Note:** The results in this figure are for illustration purposes only.



Interpreting odds ratios

An odds ratio indicates the degree to which an explanatory variable is associated with a categorical outcome variable with two categories (e.g. yes/no) or more than two categories. An odds ratio below one denotes a negative association; an odds ratio above one indicates a positive association; and an odds ratio of one means that there is no association.

Imagine that the association between being a boy and having repeated a grade is being analysed, the following odds ratios would be interpreted as:

- 0.2 > Boys are five times less likely to have repeated a grade than girls.
- 0.5 > Boys are half as likely to have repeated a grade as girls.
- 0.9 > Boys are 10% less likely to have repeated a grade than girls.
- > Boys and girls are equally likely to have repeated a grade.
- 1.1 > Boys are 10% more likely to have repeated a grade than girls.
- 2 > Boys are twice more likely to have repeated a grade than girls.
- > Boys are five times more likely to have repeated a grade than girls.

Table available on line

Table A7.1. Unweighted number of sampled students and schools, by school characteristics (http://dx.doi.org/10.1787/888933436460)



PISA 2015 DATA

All tables in Annex B are available on line

Annex B1: Results for countries and economies

http://dx.doi.org/10.1787/888933436477 http://dx.doi.org/10.1787/888933436489 http://dx.doi.org/10.1787/888933436498 http://dx.doi.org/10.1787/888933436509 http://dx.doi.org/10.1787/888933436513

Annex B2: Results for regions within countries

http://dx.doi.org/10.1787/888933436536

Annex B3: List of tables available on line

Note regarding B-S-J-G (China)

B-S-J-G (China) refers to the four PISA participating China provinces: Beijing, Shanghai, Jiangsu, Guangdong.

Note regarding CABA (Argentina)

CABA (Argentina) refers to the Ciudad Autónoma de Buenos Aires, Argentina.

Note regarding FYROM

FYROM refers to the Former Yugoslav Republic of Macedonia.

Notes regarding Cyprus

Note by Turkey: The information in this document with reference to "Cyprus" relates to the southern part of the Island. There is no single authority representing both Turkish and Greek Cypriot people on the Island. Turkey recognises the Turkish Republic of Northern Cyprus (TRNC). Until a lasting and equitable solution is found within the context of the United Nations, Turkey shall preserve its position concerning the "Cyprus issue".

Note by all the European Union Member States of the OECD and the European Union: The Republic of Cyprus is recognised by all members of the United Nations with the exception of Turkey. The information in this document relates to the area under the effective control of the Government of the Republic of Cyprus.

A note regarding Israel

The statistical data for Israel are supplied by and under the responsibility of the relevant Israeli authorities. The use of such data by the OECD is without prejudice to the status of the Golan Heights, East Jerusalem and Israeli settlements in the West Bank under the terms of international law.



ANNEX B1

RESULTS FOR COUNTRIES AND ECONOMIES

[Part 1/3]

Table II.2.1 Epistemic beliefs

Results based on students' self-reports

sults based or							-	Percentag	e of stude	ents repor	ting that.					-	
	ľ	A	good way	to know	if somethi	ng is true							road scienc	ce> some	times char	nge	
		Strongly	disagree	Disa	agree	Ag	ree	Strong	ly agree	Strongly	disagree	Disa	agree	Ag	gree	Strong	ly agree
		%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Australia		3.7	(0.2)	7.0	(0.3)	65.2	(0.6)	24.0	(0.6)	3.0	(0.2)	5.5	(0.3)	63.1	(0.5)	28.4	(0.5
Austria Belgium		11.0 5.9	(0.6)	15.8	(0.6)	38.7	(0.7)	34.6	(0.7)	9.6	(0.5)	27.7	(0.6)	46.1	(0.8)	16.5	(0.6
Canada		4.7	(0.3)	6.4	(0.3)	56.8 60.6	(0.5)	31.0 28.6	(0.5)	4.5 3.5	(0.3)	13.4 7.1	(0.4)	66.3 58.4	(0.6)	15.9 31.0	(0.5
Chile		8.6	(0.5)	11.3	(0.5)	55.4	(0.7)	24.7	(0.7)	6.1	(0.4)	16.9	(0.6)	63.0	(0.7)	14.0	(0.6
Czech Republio	:	7.3	(0.5)	10.6	(0.5)	64.4	(0.7)	17.7	(0.6)	4.9	(0.4)	16.4	(0.6)	66.9	(0.7)	11.7	(0.5
Denmark		5.4	(0.4)	6.2	(0.3)	55.3	(0.9)	33.0	(0.8)	4.0	(0.3)	11.5	(0.4)	68.9	(0.8)	15.7	(0.6
Estonia		4.8 4.9	(0.4)	7.4	(0.3)	66.2	(0.6)	21.6	(0.6)	3.4	(0.3)	12.0	(0.4)	69.9	(0.7)	14.7	(0.6
Finland France		5.2	(0.3)	7.3	(0.5)	63.1 55.9	(0.7)	31.6	(0.6)	3.9 4.3	(0.3)	11.9 12.7	(0.5)	70.5 65.9	(0.7)	13.8 17.1	(0.5
Germany		6.9	(0.5)	14.9	(0.7)	46.3	(1.0)	31.9	(1.0)	5.2	(0.4)	24.0	(0.8)	53.4	(0.9)	17.5	(0.7
Greece '		7.6	(0.6)	12.2	(0.5)	58.4	(0.6)	21.8	(0.7)	6.1	(0.5)	24.2	(0.7)	57.6	(0.7)	12.1	(0.5
Hungary		9.5	(0.6)	12.7	(0.5)	60.1	(0.7)	17.7	(0.6)	6.3	(0.4)	22.5	(0.7)	60.3	(0.8)	10.9	(0.5
Iceland		6.4	(0.5)	6.3	(0.5)	53.1	(1.0)	34.3	(0.9)	4.8	(0.4)	7.2	(0.5)	61.8	(1.0)	26.1	(0.9
Ireland		2.2 8.0	(0.2)	4.4 6.1	(0.3)	60.2 49.0	(0.7)	33.2 36.8	(0.7)	1.7	(0.2)	6.4 11.2	(0.4)	71.5 58.6	(0.7)	20.3	(0.6
Israel Italy		6.3	(0.4)	8.1	(0.4)	61.1	(0.7)	24.6	(0.9)	5.3 4.0	(0.3)	15.8	(0.6)	66.9	(0.7)	13.2	(0.8
Japan		4.5	(0.3)	15.0	(0.4)	61.2	(0.7)	19.4	(0.6)	4.5	(0.3)	13.1	(0.5)	61.4	(0.7)	21.1	(0.7
Korea		3.8	(0.3)	10.1	(0.5)	68.8	(0.7)	17.4	(0.7)	3.0	(0.3)	7.5	(0.5)	68.9	(0.8)	20.6	(0.7
Latvia		10.7	(0.5)	8.6	(0.4)	57.7	(0.7)	23.1	(0.6)	6.2	(0.4)	14.7	(0.5)	68.5	(0.8)	10.5	(0.6
Luxembourg		8.9	(0.4)	11.3	(0.4)	46.7	(0.7)	33.1	(0.6)	7.3	(0.4)	24.7	(0.7)	53.2	(0.8)	14.9	(0.5
Mexico		7.2	(0.3)	9.0	(0.4)	58.2	(0.7)	25.6	(0.7)	5.6	(0.4)	18.6	(0.6)	64.6	(0.7)	11.2	(0.5
Netherlands New Zealand		4.8 3.2	(0.4)	9.7 7.1	(0.4)	65.9 66.4	(0.8)	19.6	(0.7)	3.8	(0.3)	15.4 7.1	(0.6)	71.6 66.6	(0.7)	9.1 24.1	(0.4
Norway		5.5	(0.4)	10.4	(0.4)	61.4	(0.7)	22.6	(0.6)	4.3	(0.3)	12.4	(0.5)	67.8	(0.7)	15.5	(0.6
Poland		7.7	(0.4)	5.8	(0.3)	50.2	(0.9)	36.2	(0.9)	5.0	(0.4)	17.2	(0.5)	66.4	(0.7)	11.3	(0.5
Portugal		2.7	(0.2)	6.8	(0.5)	62.9	(0.7)	27.5	(0.7)	2.3	(0.2)	6.8	(0.4)	62.1	(0.8)	28.8	3.0)
Slovak Republic	:	13.2	(0.6)	11.4	(0.6)	59.1	(0.9)	16.3	(0.5)	7.8	(0.4)	17.7	(0.6)	64.5	(0.8)	10.0	(0.4
Slovenia		5.6	(0.3)	5.8	(0.4)	60.8	(0.9)	27.8	(0.8)	4.0	(0.3)	9.4	(0.5)	69.8	(0.8)	16.8	(0.7
Spain		6.1	(0.3)	8.4	(0.4)	53.2	(0.6)	32.3	(0.6)	5.0	(0.3)	12.9	(0.5)	63.9	(0.7)	18.2 21.1	(0.0
Sweden Switzerland		5.1 6.8	(0.4)	9.3	(0.4)	61.4 46.3	(0.7)	24.3 34.8	(0.7)	4.2 6.0	(0.3)	9.9 24.4	(0.5)	64.8 53.9	(0.9)	15.7	(0.9
Turkey		12.7	(0.7)	14.0	(0.5)	45.6	(0.7)	27.7	(0.7)	9.3	(0.5)	18.8	(0.7)	53.5	(0.8)	18.5	(0.7
United Kingdor	n	3.8	(0.2)	6.2	(0.4)	65.6	(0.7)	24.4	(0.6)	2.8	(0.2)	5.6	(0.3)	65.5	(0.7)	26.1	(0.7
United States		4.6	(0.4)	5.5	(0.3)	64.6	(0.7)	25.4	(0.7)	3.7	(0.3)	4.8	(0.3)	61.9	(0.9)	29.7	(1.0
OECD average		6.4	(0.1)	9.2	(0.1)	57.9	(0.1)	26.5	(0.1)	4.8	(0.1)	13.9	(0.1)	63.4	(0.1)	17.9	(0.1
Albania		6.1	(0.4)	9.3	(0.5)	67.5	(0.9)	17.1	(0.8)	3.9	(0.3)	17.8	(0.5)	56.8	(0.8)	21.5	(0.8
Algeria		11.0	(0.6)	10.5	(0.6)	51.9	(1.0)	26.6	(0.9)	7.6	(0.5)	21.4	(0.7)	56.0	(0.8)	15.0	(0.6
Brazil		6.2	(0.4)	8.7	(0.4)	64.5	(0.5)	20.6	(0.5)	3.8	(0.3)	11.8	(0.4)	69.1	(0.5)	15.3	(0.5
B-S-J-G (China) Bulgaria		3.1 10.4	(0.3)	8.0 8.7	(0.4)	68.6 54.7	(0.8)	20.4	(0.7)	2.6 6.4	(0.2)	14.7 17.0	(0.5)	72.9 65.5	(0.7)	9.8	(0.5
CABA (Argentii	na)	7.2	(0.7)	9.0	(0.8)	51.8	(1.1)	31.9	(1.3)	4.9	(0.4)	10.0	(1.0)	61.5	(1.9)	23.6	(1.
Colombia	,	9.1	(0.5)	10.1	(0.5)	58.5	(0.7)	22.3	(0.5)	5.7	(0.3)	17.0	(0.5)	63.7	(0.7)	13.6	(0.4
Costa Rica		8.4	(0.4)	12.4	(0.4)	57.1	(0.7)	22.1	(0.7)	6.6	(0.4)	18.7	(0.5)	62.5	(0.7)	12.2	(0.4
Croatia		5.2	(0.4)	5.8	(0.4)	55.5	(0.8)	33.5	(0.8)	3.7	(0.3)	9.7	(0.4)	71.5	(0.7)	15.1	(0.5
Cyprus* Dominican Rep	ublic	10.9 13.7	(0.5)	11.0 8.0	(0.4)	53.7 46.9	(0.7)	24.4	(0.6)	6.8 9.8	(0.4)	19.6 12.9	(0.5)	57.0 56.1	(0.7)	16.6 21.2	(0.9
FYROM	ublic	8.3	(0.4)	13.3	(0.5)	57.1	(0.8)	21.3	(0.7)	4.9	(0.4)	16.9	(0.5)	67.7	(0.6)	10.6	(0.5
Georgia		6.7	(0.4)	7.1	(0.4)	57.3	(0.8)	29.0	(0.7)	2.9	(0.3)	10.6	(0.5)	66.5	(0.9)	20.0	(0.0
Hong Kong (Ch	ina)	3.3	(0.3)	11.5	(0.4)	68.6	(0.6)	16.6	(0.5)	3.2	(0.3)	8.1	(0.4)	70.6	(0.7)	18.1	(0.6
Indonesia		4.2	(0.4)	4.1	(0.3)	60.6	(1.0)	31.1	(0.9)	3.6	(0.2)	34.5	(0.8)	57.1	(0.9)	4.8	(0.3
Jordan Kosovo		15.6 8.9	(0.8)	9.5 7.0	(0.5)	41.5 49.4	(0.8)	33.4 34.8	(0.9)	7.5 5.3	(0.4)	17.1 14.6	(0.7)	58.3 62.6	(0.9)	17.0 17.5	(0
Lebanon		13.1	(1.1)	7.5	(0.4)	51.1	(1.0)	28.3	(1.3)	7.7	(0.4)	26.8	(1.2)	53.2	(1.3)	12.3	(0.
Lithuania		10.6	(0.4)	8.4	(0.4)	34.3	(0.7)	46.6	(0.8)	6.5	(0.3)	14.6	(0.5)	55.8	(0.7)	23.1	(0.
Macao (China)		2.9	(0.3)	9.3	(0.4)	68.7	(0.7)	19.1	(0.6)	2.2	(0.3)	9.7	(0.4)	75.3	(0.6)	12.8	(0.
Malta		5.6	(0.3)	9.3	(0.5)	56.8	(0.8)	28.2	(0.8)	3.7	(0.3)	10.8	(0.5)	64.9	(0.7)	20.6	(0.0
Moldova Montenegro		6.8 13.1	(0.4)	11.3 15.6	(0.4)	66.5 55.3	(0.7)	15.5 15.9	(0.6)	3.3 7.4	(0.3)	14.1 18.4	(0.6)	72.5 63.4	(0.7)	10.2 10.9	(0.4
Peru		8.4	(0.4)	10.0	(0.5)	58.9	(0.7)	22.6	(0.6)	5.2	(0.3)	15.4	(0.5)	68.1	(0.7)	11.3	(0.
Qatar		10.1	(0.3)	9.9	(0.3)	54.0	(0.5)	25.9	(0.4)	6.2	(0.2)	15.5	(0.3)	63.2	(0.4)	15.1	(0.
Romania		10.5	(1.1)	13.0	(0.6)	60.5	(1.2)	16.0	(0.8)	6.0	(0.5)	27.9	(1.1)	59.4	(1.3)	6.7	(0.
Russia		7.9	(0.6)	13.3	(0.7)	64.7	(1.0)	14.1	(0.7)	5.4	(0.4)	15.8	(0.6)	68.4	(0.8)	10.4	(0
Singapore Chinese Taipei		2.4 2.5	(0.2)	6.4	(0.3)	63.8 67.9	(0.6)	27.5 19.7	(0.5)	2.2	(0.2)	8.4 4.1	(0.3)	70.1 63.6	(0.7)	19.3 30.2	(0.5
Thailand		2.9	(0.2)	8.1	(0.4)	72.6	(0.6)	16.4	(0.6)	1.6	(0.2)	10.7	(0.2)	76.4	(0.8)	11.3	(0.0
Trinidad and To	bago	8.6	(0.5)	5.2	(0.4)	54.0	(0.9)	32.2	(0.8)	5.5	(0.4)	15.0	(0.4)	67.6	(0.8)	11.9	(0.
Tunisia		10.9	(0.6)	11.3	(0.6)	56.8	(0.8)	21.0	(0.8)	7.7	(0.5)	25.9	(0.9)	54.5	(1.0)	11.9	(0.5
United Arab Em	irates	8.1	(0.4)	7.8	(0.3)	54.1	(0.6)	30.0	(0.5)	4.8	(0.2)	13.6	(0.4)	63.4	(0.6)	18.2	(0
Uruguay		11.1	(0.5)	10.3	(0.4)	57.7	(0.8)	20.9	(0.7)	7.3	(0.4)	12.4	(0.6)	61.1	(0.6)	19.2	(0.
Viet Nam		4.7	(0.3)	13.5	(0.6)	64.5	(0.8)	17.3	(0.9)	2.6	(0.2)	15.8	(0.6)	74.0	(0.6)	7.7	(0.
Argentina**		12.3	(0.6)	13.2	(0.5)	53.6	(0.7)	21.0	(0.6)	7.1	(0.5)	16.6	(0.7)	61.9	(0.9)	14.4	(0.6
Kazakhstan**		8.9	(0.5)	6.9	(0.4)	52.5	(1.0)	31.7	(1.0)	4.7	(0.3)	16.4	(0.5)	65.8	(0.7)	13.1	(0.6
Malaysia**		2.6	(0.3)	5.1	(0.3)	62.5	(0.8)	29.8	(0.9)	1.9	(0.2)	13.2	(0.5)	73.2	(0.6)	11.8	(0.4

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** http://dx.doi.org/10.1787/888933436477



[Part 2/3]

Table II.2.1 Epistemic beliefs

Results based on students' self-reports

							- 1	Percentag	e of stude	ents repor	ting that	••					
		Good	answers a	re based	on eviden	ce from m	nany differ	ent exper	iments	It is goo	od to try ex	periment	s more th	an once to	make sui	re of your	findings
		Strongly	disagree	Disa	igree	Ag	gree	Strong	ly agree	Strongly	disagree	Disa	igree	Ag	ree	Strong	ly agree
		%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
9	Australia	2.8	(0.2)	5.2	(0.2)	56.8	(0.5)	35.2	(0.6)	2.7	(0.2)	4.3	(0.2)	50.3	(0.6)	42.7	(0.6)
OECD	Austria	7.8	(0.4)	15.9	(0.6)	40.0	(0.7)	36.3	(0.8)	7.4	(0.4)	15.6	(0.5)	34.0	(0.7)	43.0	(0.8)
Č	Belgium Canada	4.1 3.4	(0.3)	8.3 5.3	(0.4)	59.2 53.9	(0.6)	28.3 37.4	(0.6)	4.6 3.5	(0.3)	9.3 5.0	(0.3)	52.3 52.3	(0.6)	33.9 39.2	(0.6)
	Chile	6.8	(0.4)	11.9	(0.5)	53.7	(0.8)	27.6	(0.7)	6.9	(0.4)	10.0	(0.5)	53.1	(0.8)	29.9	(0.9)
	Czech Republic	4.4	(0.3)	11.4	(0.5)	66.9	(0.8)	17.3	(0.6)	4.6	(0.4)	12.0	(0.5)	61.8	(0.8)	21.6	(0.7)
	Denmark	4.5	(0.4)	6.9	(0.4)	53.4	(0.9)	35.2	(0.9)	4.8	(0.4)	8.0	(0.4)	50.5	(0.8)	36.8	(0.9)
	Estonia	3.2	(0.2)	7.7	(0.4)	62.1	(0.8)	27.0	(0.8)	3.3	(0.2)	7.8	(0.3)	53.4	(0.8)	35.5	(0.9)
	Finland France	4.0	(0.3)	8.5 9.6	(0.5)	61.3 58.4	(0.7)	26.2 27.7	(0.7)	4.0	(0.3)	9.0 11.8	(0.5)	56.7 54.4	(0.6)	30.3 29.8	(0.8)
	Germany	4.7	(0.4)	16.5	(0.4)	48.7	(1.0)	30.1	(1.0)	5.2	(0.4)	18.3	(0.4)	43.0	(0.8)	33.5	(1.0)
	Greece	4.6	(0.5)	10.8	(0.5)	56.3	(0.7)	28.3	(0.9)	4.4	(0.4)	11.5	(0.7)	52.7	(0.8)	31.5	(0.9)
	Hungary	5.0	(0.3)	14.5	(0.6)	64.5	(0.7)	16.0	(0.5)	5.5	(0.4)	14.5	(0.7)	58.7	(0.8)	21.3	(0.8)
	Iceland	4.6	(0.4)	5.7	(0.4)	49.7	(0.9)	40.0	(1.0)	4.9	(0.4)	5.0	(0.5)	45.8	(1.0)	44.4	(1.0)
	Ireland	1.6	(0.2)	5.1 8.9	(0.4)	57.4 50.1	(0.7)	35.9	(0.7)	1.7 4.9	(0.2)	4.4 9.0	(0.3)	49.3 40.6	(0.8)	44.6	(0.8)
	Israel Italy	5.1	(0.4)	12.0	(0.5)	59.1	(0.8)	35.8 24.8	(0.8)	3.8	(0.4)	9.0	(0.4)	55.0	(0.8)	45.5 31.9	(0.9)
	Japan	4.2	(0.3)	11.3	(0.4)	59.6	(0.7)	24.9	(0.7)	4.6	(0.3)	14.2	(0.4)	50.7	(0.7)	30.5	(0.7)
	Korea	3.2	(0.3)	9.8	(0.5)	68.0	(0.9)	19.0	(0.8)	3.2	(0.3)	9.3	(0.5)	63.3	(0.8)	24.2	(0.9)
	Latvia	7.5	(0.4)	11.9	(0.5)	62.0	(0.9)	18.5	(0.7)	7.2	(0.4)	16.2	(0.6)	54.8	(0.7)	21.8	(0.7)
	Luxembourg	6.1	(0.4)	13.7	(0.6)	46.0	(0.8)	34.1	(0.7)	6.0	(0.4)	15.6	(0.6)	43.0	(0.8)	35.4	(0.7)
	Mexico Netherlands	5.4 3.4	(0.3)	11.1 11.2	(0.5)	59.1 65.4	(0.8)	24.4	(0.7)	5.3 3.5	(0.3)	14.5 11.2	(0.5)	57.0 56.1	(0.7)	23.2	(0.8)
	New Zealand	2.5	(0.3)	6.0	(0.4)	58.1	(0.8)	33.4	(0.6)	2.3	(0.3)	4.8	(0.4)	48.0	(1.1)	44.8	(1.1)
	Norway	4.1	(0.2)	9.1	(0.4)	57.9	(0.7)	28.9	(0.7)	4.3	(0.2)	10.4	(0.5)	53.4	(0.8)	31.9	(0.8)
	Poland	5.4	(0.4)	9.8	(0.5)	62.1	(0.8)	22.7	(0.8)	5.3	(0.4)	9.8	(0.4)	58.4	(0.9)	26.5	(0.8)
	Portugal	2.0	(0.2)	7.1	(0.4)	63.2	(0.8)	27.7	(0.8)	1.7	(0.2)	4.9	(0.4)	57.1	(0.9)	36.4	(0.9)
	Slovak Republic	7.6 3.7	(0.4)	14.0	(0.5)	59.6 52.5	(0.7)	18.8 36.9	(0.6)	7.5	(0.4)	15.7 6.2	(0.5)	56.3 51.9	(0.8)	20.5	(0.6)
	Slovenia Spain	4.7	(0.3)	6.8 8.4	(0.4)	51.2	(0.8)	35.7	(0.8)	3.8	(0.3)	7.4	(0.4)	45.7	(0.9)	38.1 42.1	(0.9)
	Sweden	4.2	(0.3)	8.5	(0.5)	55.8	(0.9)	31.6	(1.0)	4.2	(0.3)	7.7	(0.5)	49.5	(1.0)	38.7	(1.2)
	Switzerland	4.4	(0.3)	14.2	(0.7)	46.6	(0.8)	34.8	(1.0)	5.1	(0.4)	15.3	(0.7)	43.4	(0.8)	36.1	(1.1)
	Turkey	9.2	(0.5)	14.7	(0.6)	49.9	(0.6)	26.1	(0.9)	8.8	(0.5)	15.3	(0.6)	46.0	(0.8)	30.0	(1.0)
	United Kingdom	2.9 3.9	(0.2)	6.0	(0.3)	60.3	(0.6)	30.8	(0.6)	2.7	(0.2)	4.6	(0.3)	48.5	(0.8)	44.1	(0.9)
	United States		(0.3)	4.9	(0.3)	57.2	(0.9)	34.1	(1.0)	3.8	(0.3)	4.4	(0.4)	52.1	(0.9)	39.7	(1.1)
	OECD average	4.6	(0.1)	9.8	(0.1)	56.7	(0.1)	28.9	(0.1)	4.6	(0.1)	10.1	(0.1)	51.4	(0.1)	34.0	(0.1)
ers	Albania	4.9	(0.4)	20.0	(0.8)	58.1	(0.7)	17.0	(0.7)	3.5	(0.3)	11.2	(0.5)	49.2	(1.0)	36.1	(0.8)
Partners	Algeria Brazil	9.2	(0.5)	16.0 9.1	(0.6)	49.1 66.7	(0.8)	25.8 20.9	(0.7)	8.1	(0.4)	13.5 8.3	(0.6)	45.1 63.3	(0.9)	33.3 25.2	(0.8)
9	B-S-J-G (China)	2.6	(0.2)	5.9	(0.4)	64.9	(0.8)	26.6	(1.0)	4.3	(0.3)	8.9	(0.5)	62.6	(0.7)	24.2	(0.9)
	Bulgaria	6.2	(0.4)	11.4	(0.6)	56.6	(0.9)	25.8	(1.1)	5.7	(0.4)	14.1	(0.7)	55.8			(0.8)
	CABA (Argentina)	5.1	(0.0)		(4.0)		(4.6)	33.5	(2.0)		(0 =)	7.1			(0.8)	24.5	
	Colombia		(0.6)	10.4	(1.0)	51.0	(1.6)			5.9	(0.7)		(0.6)	43.6	(1.8)	43.3	(1.9)
		6.2	(0.4)	11.5	(0.4)	59.4	(0.7)	23.0	(0.7)	5.5	(0.4)	10.5	(0.4)	57.6	(1.8) (0.7)	43.3 26.4	(0.7)
	Croatia	6.2	(0.4) (0.4)	11.5 12.3	(0.4) (0.5)	59.4 56.1	(0.7) (0.7)	23.0 25.3	(0.7) (0.7)	5.5 6.4	(0.4) (0.4)	10.5 10.4	(0.4) (0.4)	57.6 54.5	(1.8) (0.7) (0.7)	43.3 26.4 28.7	(0.7) (0.8)
	Croatia	6.2 3.5	(0.4) (0.4) (0.3)	11.5 12.3 7.2	(0.4) (0.5) (0.4)	59.4 56.1 60.5	(0.7) (0.7) (0.6)	23.0 25.3 28.8	(0.7) (0.7) (0.7)	5.5 6.4 3.5	(0.4) (0.4) (0.3)	10.5 10.4 11.8	(0.4) (0.4) (0.5)	57.6 54.5 55.8	(1.8) (0.7) (0.7) (0.7)	43.3 26.4 28.7 28.9	(0.7) (0.8) (0.6)
		6.2	(0.4) (0.4)	11.5 12.3	(0.4) (0.5)	59.4 56.1	(0.7) (0.7)	23.0 25.3	(0.7) (0.7)	5.5 6.4	(0.4) (0.4)	10.5 10.4	(0.4) (0.4)	57.6 54.5	(1.8) (0.7) (0.7)	43.3 26.4 28.7	(0.7) (0.8)
	Croatia Cyprus* Dominican Republic FYROM	6.2 3.5 5.7 9.6 5.3	(0.4) (0.4) (0.3) (0.3) (0.7) (0.4)	11.5 12.3 7.2 13.5 10.0 13.7	(0.4) (0.5) (0.4) (0.5) (0.6) (0.5)	59.4 56.1 60.5 54.0 51.7 56.3	(0.7) (0.7) (0.6) (0.7) (1.1) (0.8)	23.0 25.3 28.8 26.9 28.7 24.8	(0.7) (0.7) (0.7) (0.6) (1.0) (0.7)	5.5 6.4 3.5 6.2 10.1 5.2	(0.4) (0.4) (0.3) (0.3) (0.6) (0.4)	10.5 10.4 11.8 13.9 10.4 10.9	(0.4) (0.4) (0.5) (0.5) (0.6) (0.5)	57.6 54.5 55.8 49.8 48.4 51.2	(1.8) (0.7) (0.7) (0.7) (0.7) (1.1) (0.8)	43.3 26.4 28.7 28.9 30.1 31.1 32.7	(0.7) (0.8) (0.6) (0.7) (1.0) (0.8)
	Croatia Cyprus* Dominican Republic FYROM Georgia	6.2 3.5 5.7 9.6 5.3 4.1	(0.4) (0.4) (0.3) (0.3) (0.7) (0.4) (0.3)	11.5 12.3 7.2 13.5 10.0 13.7 9.6	(0.4) (0.5) (0.4) (0.5) (0.6) (0.5) (0.5)	59.4 56.1 60.5 54.0 51.7 56.3 55.9	(0.7) (0.7) (0.6) (0.7) (1.1) (0.8) (0.7)	23.0 25.3 28.8 26.9 28.7 24.8 30.3	(0.7) (0.7) (0.7) (0.6) (1.0) (0.7) (0.7)	5.5 6.4 3.5 6.2 10.1 5.2 4.0	(0.4) (0.4) (0.3) (0.3) (0.6) (0.4) (0.4)	10.5 10.4 11.8 13.9 10.4 10.9	(0.4) (0.4) (0.5) (0.5) (0.6) (0.5) (0.4)	57.6 54.5 55.8 49.8 48.4 51.2 49.0	(1.8) (0.7) (0.7) (0.7) (0.7) (0.7) (1.1) (0.8) (0.7)	43.3 26.4 28.7 28.9 30.1 31.1 32.7 37.0	(0.7) (0.8) (0.6) (0.7) (1.0) (0.8) (0.8)
	Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China)	6.2 3.5 5.7 9.6 5.3 4.1 3.0	(0.4) (0.4) (0.3) (0.3) (0.7) (0.4) (0.3) (0.3)	11.5 12.3 7.2 13.5 10.0 13.7 9.6 6.8	(0.4) (0.5) (0.4) (0.5) (0.6) (0.5) (0.5) (0.5) (0.4)	59.4 56.1 60.5 54.0 51.7 56.3 55.9 65.4	(0.7) (0.7) (0.6) (0.7) (1.1) (0.8) (0.7) (0.7)	23.0 25.3 28.8 26.9 28.7 24.8 30.3 24.8	(0.7) (0.7) (0.7) (0.6) (1.0) (0.7) (0.7) (0.6)	5.5 6.4 3.5 6.2 10.1 5.2 4.0 3.0	(0.4) (0.4) (0.3) (0.3) (0.6) (0.4) (0.4) (0.3)	10.5 10.4 11.8 13.9 10.4 10.9 10.1 6.9	(0.4) (0.4) (0.5) (0.5) (0.6) (0.6) (0.5) (0.4) (0.4)	57.6 54.5 55.8 49.8 48.4 51.2 49.0 63.2	(1.8) (0.7) (0.7) (0.7) (0.7) (1.1) (0.8) (0.7) (0.8)	43.3 26.4 28.7 28.9 30.1 31.1 32.7 37.0 27.0	(0.7) (0.8) (0.6) (0.7) (1.0) (0.8) (0.8) (0.8)
	Croatia Cyprus* Dominican Republic FYROM Georgia	6.2 3.5 5.7 9.6 5.3 4.1	(0.4) (0.4) (0.3) (0.3) (0.7) (0.4) (0.3)	11.5 12.3 7.2 13.5 10.0 13.7 9.6	(0.4) (0.5) (0.4) (0.5) (0.6) (0.5) (0.5)	59.4 56.1 60.5 54.0 51.7 56.3 55.9	(0.7) (0.7) (0.6) (0.7) (1.1) (0.8) (0.7)	23.0 25.3 28.8 26.9 28.7 24.8 30.3	(0.7) (0.7) (0.7) (0.6) (1.0) (0.7) (0.7)	5.5 6.4 3.5 6.2 10.1 5.2 4.0	(0.4) (0.4) (0.3) (0.3) (0.6) (0.4) (0.4)	10.5 10.4 11.8 13.9 10.4 10.9	(0.4) (0.4) (0.5) (0.5) (0.6) (0.5) (0.4)	57.6 54.5 55.8 49.8 48.4 51.2 49.0	(1.8) (0.7) (0.7) (0.7) (0.7) (0.7) (1.1) (0.8) (0.7)	43.3 26.4 28.7 28.9 30.1 31.1 32.7 37.0	(0.7) (0.8) (0.6) (0.7) (1.0) (0.8) (0.8)
	Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia	6.2 3.5 5.7 9.6 5.3 4.1 3.0 3.2	(0.4) (0.4) (0.3) (0.3) (0.7) (0.4) (0.3) (0.3) (0.3)	11.5 12.3 7.2 13.5 10.0 13.7 9.6 6.8 12.7	(0.4) (0.5) (0.4) (0.5) (0.6) (0.5) (0.5) (0.4) (0.5)	59.4 56.1 60.5 54.0 51.7 56.3 55.9 65.4 64.8	(0.7) (0.7) (0.6) (0.7) (1.1) (0.8) (0.7) (0.7) (0.8)	23.0 25.3 28.8 26.9 28.7 24.8 30.3 24.8 19.3	(0.7) (0.7) (0.7) (0.6) (1.0) (0.7) (0.7) (0.6) (0.7)	5.5 6.4 3.5 6.2 10.1 5.2 4.0 3.0 2.7	(0.4) (0.4) (0.3) (0.3) (0.6) (0.4) (0.4) (0.3) (0.3)	10.5 10.4 11.8 13.9 10.4 10.9 10.1 6.9 7.5	(0.4) (0.4) (0.5) (0.5) (0.6) (0.5) (0.4) (0.4) (0.4)	57.6 54.5 55.8 49.8 48.4 51.2 49.0 63.2 59.1	(1.8) (0.7) (0.7) (0.7) (0.7) (1.1) (0.8) (0.7) (0.8) (1.0)	43.3 26.4 28.7 28.9 30.1 31.1 32.7 37.0 27.0 30.7	(0.7) (0.8) (0.6) (0.7) (1.0) (0.8) (0.8) (0.8) (0.9)
	Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon	6.2 3.5 5.7 9.6 5.3 4.1 3.0 3.2 8.2 5.2 6.8	(0.4) (0.4) (0.3) (0.3) (0.7) (0.4) (0.3) (0.3) (0.3) (0.4) (0.3) (0.6)	11.5 12.3 7.2 13.5 10.0 13.7 9.6 6.8 12.7 12.7 9.9	(0.4) (0.5) (0.4) (0.5) (0.6) (0.5) (0.5) (0.4) (0.5) (0.6) (0.5) (0.6) (0.5)	59.4 56.1 60.5 54.0 51.7 56.3 55.9 65.4 64.8 51.2 50.5 50.1	(0.7) (0.7) (0.6) (0.7) (1.1) (0.8) (0.7) (0.7) (0.8) (0.7) (0.9) (1.0)	23.0 25.3 28.8 26.9 28.7 24.8 30.3 24.8 19.3 27.9 34.4 31.2	(0.7) (0.7) (0.7) (0.6) (1.0) (0.7) (0.7) (0.6) (0.7) (0.8) (0.9) (1.2)	5.5 6.4 3.5 6.2 10.1 5.2 4.0 3.0 2.7 7.1 4.7 6.6	(0.4) (0.4) (0.3) (0.3) (0.6) (0.4) (0.4) (0.3) (0.3) (0.4) (0.4) (0.4) (0.6)	10.5 10.4 11.8 13.9 10.4 10.9 10.1 6.9 7.5 12.1 8.5 12.2	(0.4) (0.4) (0.5) (0.5) (0.6) (0.5) (0.4) (0.4) (0.4) (0.6) (0.5) (0.7)	57.6 54.5 55.8 49.8 48.4 51.2 49.0 63.2 59.1 43.3 41.9	(1.8) (0.7) (0.7) (0.7) (0.7) (0.7) (1.1) (0.8) (0.7) (0.8) (1.0) (0.7) (0.8) (1.1)	43.3 26.4 28.7 28.9 30.1 31.1 32.7 37.0 27.0 30.7 37.5 44.9 36.9	(0.7) (0.8) (0.6) (0.7) (1.0) (0.8) (0.8) (0.8) (0.9) (0.8) (0.8) (1.0)
	Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania	6.2 3.5 5.7 9.6 5.3 4.1 3.0 3.2 8.2 5.2 6.8 7.0	(0.4) (0.4) (0.3) (0.3) (0.7) (0.4) (0.3) (0.3) (0.3) (0.4) (0.3) (0.6) (0.4)	11.5 12.3 7.2 13.5 10.0 13.7 9.6 6.8 12.7 12.7 9.9 12.0	(0.4) (0.5) (0.4) (0.5) (0.6) (0.5) (0.5) (0.4) (0.5) (0.6) (0.5) (0.8) (0.5)	59.4 56.1 60.5 54.0 51.7 56.3 55.9 65.4 64.8 51.2 50.5 50.1 41.9	(0.7) (0.7) (0.6) (0.7) (1.1) (0.8) (0.7) (0.7) (0.8) (0.7) (0.9) (1.0) (0.9)	23.0 25.3 28.8 26.9 28.7 24.8 30.3 24.8 19.3 27.9 34.4 31.2 39.1	(0.7) (0.7) (0.7) (0.6) (1.0) (0.7) (0.6) (0.7) (0.6) (0.7) (0.8) (0.9) (1.2) (1.0)	5.5 6.4 3.5 6.2 10.1 5.2 4.0 3.0 2.7 7.1 4.7 6.6 7.0	(0.4) (0.4) (0.3) (0.3) (0.6) (0.4) (0.4) (0.3) (0.4) (0.4) (0.4) (0.6) (0.3)	10.5 10.4 11.8 13.9 10.4 10.9 10.1 6.9 7.5 12.1 8.5 12.2 13.9	(0.4) (0.4) (0.5) (0.5) (0.6) (0.5) (0.4) (0.4) (0.6) (0.5) (0.7) (0.5)	57.6 54.5 55.8 49.8 48.4 51.2 49.0 63.2 59.1 43.3 41.9 44.4 41.3	(1.8) (0.7) (0.7) (0.7) (0.7) (1.1) (0.8) (0.7) (0.8) (1.0) (0.7) (0.8) (1.1) (0.8)	43.3 26.4 28.7 28.9 30.1 31.1 32.7 37.0 27.0 30.7 37.5 44.9 36.9 37.8	(0.7) (0.8) (0.6) (0.7) (1.0) (0.8) (0.8) (0.8) (0.9) (0.8) (0.8) (1.0) (0.7)
	Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China)	6.2 3.5 5.7 9.6 5.3 4.1 3.0 3.2 8.2 5.2 6.8 7.0 2.3	(0.4) (0.4) (0.3) (0.3) (0.7) (0.4) (0.3) (0.3) (0.4) (0.3) (0.4) (0.4) (0.4) (0.4) (0.2)	11.5 12.3 7.2 13.5 10.0 13.7 9.6 6.8 12.7 12.7 9.9 12.0 11.9 6.7	(0.4) (0.5) (0.4) (0.5) (0.6) (0.5) (0.5) (0.4) (0.5) (0.6) (0.5) (0.8) (0.5) (0.4)	59.4 56.1 60.5 54.0 51.7 56.3 55.9 65.4 64.8 51.2 50.5 50.1 41.9 66.8	(0.7) (0.7) (0.6) (0.7) (1.1) (0.8) (0.7) (0.7) (0.8) (0.7) (0.9) (1.0) (0.9) (0.7)	23.0 25.3 28.8 26.9 28.7 24.8 30.3 24.8 19.3 27.9 34.4 31.2 39.1 24.2	(0.7) (0.7) (0.7) (0.6) (1.0) (0.7) (0.6) (0.7) (0.8) (0.9) (1.2) (1.0) (0.7)	5.5 6.4 3.5 6.2 10.1 5.2 4.0 3.0 2.7 7.1 4.7 6.6 7.0 2.4	(0.4) (0.4) (0.3) (0.3) (0.6) (0.4) (0.4) (0.3) (0.4) (0.4) (0.6) (0.3) (0.2)	10.5 10.4 11.8 13.9 10.4 10.9 10.1 6.9 7.5 12.1 8.5 12.2 13.9	(0.4) (0.4) (0.5) (0.5) (0.6) (0.5) (0.4) (0.4) (0.6) (0.5) (0.7) (0.5) (0.5)	57.6 54.5 55.8 49.8 48.4 51.2 49.0 63.2 59.1 43.3 41.9 44.4 41.3 63.1	(1.8) (0.7) (0.7) (0.7) (0.7) (0.7) (0.8) (0.7) (0.8) (1.0) (0.7) (0.8) (1.1) (0.8) (0.8)	43.3 26.4 28.7 28.9 30.1 31.1 32.7 37.0 27.0 30.7 37.5 44.9 36.9 37.8 19.3	(0.7) (0.8) (0.6) (0.7) (1.0) (0.8) (0.8) (0.8) (0.9) (0.8) (0.8) (1.0) (0.7) (0.5)
	Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania	6.2 3.5 5.7 9.6 5.3 4.1 3.0 3.2 8.2 5.2 6.8 7.0	(0.4) (0.4) (0.3) (0.3) (0.7) (0.4) (0.3) (0.3) (0.3) (0.4) (0.3) (0.6) (0.4)	11.5 12.3 7.2 13.5 10.0 13.7 9.6 6.8 12.7 12.7 9.9 12.0	(0.4) (0.5) (0.4) (0.5) (0.6) (0.5) (0.5) (0.4) (0.5) (0.6) (0.5) (0.8) (0.5)	59.4 56.1 60.5 54.0 51.7 56.3 55.9 65.4 64.8 51.2 50.5 50.1 41.9	(0.7) (0.7) (0.6) (0.7) (1.1) (0.8) (0.7) (0.7) (0.8) (0.7) (0.9) (1.0) (0.9)	23.0 25.3 28.8 26.9 28.7 24.8 30.3 24.8 19.3 27.9 34.4 31.2 39.1	(0.7) (0.7) (0.7) (0.6) (1.0) (0.7) (0.6) (0.7) (0.6) (0.7) (0.8) (0.9) (1.2) (1.0)	5.5 6.4 3.5 6.2 10.1 5.2 4.0 3.0 2.7 7.1 4.7 6.6 7.0	(0.4) (0.4) (0.3) (0.3) (0.6) (0.4) (0.4) (0.3) (0.4) (0.4) (0.4) (0.6) (0.3)	10.5 10.4 11.8 13.9 10.4 10.9 10.1 6.9 7.5 12.1 8.5 12.2 13.9	(0.4) (0.4) (0.5) (0.5) (0.6) (0.5) (0.4) (0.4) (0.6) (0.5) (0.7) (0.5)	57.6 54.5 55.8 49.8 48.4 51.2 49.0 63.2 59.1 43.3 41.9 44.4 41.3	(1.8) (0.7) (0.7) (0.7) (0.7) (1.1) (0.8) (0.7) (0.8) (1.0) (0.7) (0.8) (1.1) (0.8)	43.3 26.4 28.7 28.9 30.1 31.1 32.7 37.0 27.0 30.7 37.5 44.9 36.9 37.8	(0.7) (0.8) (0.6) (0.7) (1.0) (0.8) (0.8) (0.8) (0.9) (0.8) (0.8) (1.0) (0.7)
	Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro	6.2 3.5 5.7 9.6 5.3 4.1 3.0 3.2 8.2 5.2 6.8 7.0 2.3 4.0	(0.4) (0.4) (0.3) (0.3) (0.7) (0.4) (0.3) (0.3) (0.4) (0.3) (0.4) (0.3) (0.6) (0.4) (0.2)	11.5 12.3 7.2 13.5 10.0 13.7 9.6 6.8 12.7 12.7 9.9 12.0 11.9 6.7 7.3	(0.4) (0.5) (0.4) (0.5) (0.6) (0.5) (0.5) (0.4) (0.5) (0.8) (0.5) (0.4) (0.5)	59.4 56.1 60.5 54.0 51.7 56.3 55.9 65.4 64.8 51.2 50.5 50.1 41.9 66.8 52.0	(0.7) (0.7) (0.6) (0.7) (1.1) (0.8) (0.7) (0.7) (0.8) (0.7) (0.9) (1.0) (0.9) (0.7) (0.8)	23.0 25.3 28.8 26.9 28.7 24.8 30.3 24.8 19.3 27.9 34.4 31.2 39.1 24.2 36.7	(0.7) (0.7) (0.7) (0.6) (1.0) (0.7) (0.6) (0.7) (0.6) (0.7) (0.8) (0.9) (1.2) (1.0) (0.7) (0.8)	5.5 6.4 3.5 6.2 10.1 5.2 4.0 3.0 2.7 7.1 4.7 6.6 7.0 2.4 3.6	(0.4) (0.4) (0.3) (0.3) (0.6) (0.4) (0.3) (0.3) (0.4) (0.4) (0.4) (0.6) (0.3) (0.2) (0.3)	10.5 10.4 11.8 13.9 10.4 10.9 10.1 6.9 7.5 12.1 8.5 12.2 13.9 15.2 7.1	(0.4) (0.4) (0.5) (0.5) (0.6) (0.5) (0.4) (0.4) (0.4) (0.6) (0.5) (0.7) (0.5) (0.5) (0.5)	57.6 54.5 55.8 49.8 48.4 51.2 49.0 63.2 59.1 43.3 41.9 44.4 41.3 63.1 41.5	(1.8) (0.7) (0.7) (0.7) (0.7) (0.7) (1.1) (0.8) (0.7) (0.8) (1.0) (0.7) (0.8) (1.1) (0.8) (0.8) (0.8)	43.3 26.4 28.7 28.9 30.1 31.1 32.7 37.0 27.0 30.7 37.5 44.9 37.8 19.3 47.8	(0.7) (0.8) (0.6) (0.7) (1.0) (0.8) (0.8) (0.8) (0.9) (0.8) (1.0) (0.7) (0.5) (0.8)
	Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru	6.2 3.5 5.7 9.6 5.3 4.1 3.0 3.2 8.2 5.2 6.8 7.0 2.3 4.0 4.0 6.8 6.3	(0.4) (0.4) (0.3) (0.3) (0.7) (0.4) (0.3) (0.3) (0.4) (0.3) (0.4) (0.2) (0.4) (0.2) (0.4) (0.3) (0.3)	11.5 12.3 7.2 13.5 10.0 13.7 9.6 6.8 12.7 12.7 9.9 12.0 11.9 6.7 7.3 9.2 16.3 11.9	(0.4) (0.5) (0.4) (0.5) (0.6) (0.5) (0.5) (0.4) (0.5) (0.8) (0.5) (0.4) (0.5) (0.4) (0.5) (0.4) (0.5)	59.4 56.1 60.5 54.0 51.7 56.3 55.9 65.4 64.8 51.2 50.5 50.1 41.9 66.8 52.0 56.1 58.9	(0.7) (0.7) (0.6) (0.7) (1.1) (0.8) (0.7) (0.7) (0.8) (0.7) (0.9) (1.0) (0.9) (0.7) (0.8) (0.7) (0.9) (0.7) (0.7)	23.0 25.3 28.8 26.9 28.7 24.8 30.3 24.8 19.3 27.9 34.4 31.2 39.1 24.2 36.7 30.6 18.1 22.7	(0.7) (0.7) (0.7) (0.6) (1.0) (0.7) (0.6) (0.7) (0.8) (0.9) (1.2) (1.0) (0.7) (0.8) (0.9) (0.7)	5.5 6.4 3.5 6.2 10.1 5.2 4.0 3.0 2.7 7.1 4.7 6.6 7.0 2.4 3.6 3.9 7.0 6.1	(0.4) (0.4) (0.3) (0.3) (0.6) (0.4) (0.4) (0.3) (0.4) (0.4) (0.6) (0.3) (0.2) (0.3) (0.3) (0.4)	10.5 10.4 11.8 13.9 10.4 10.9 10.1 6.9 7.5 12.1 8.5 12.2 13.9 15.2 7.1 10.9	(0.4) (0.4) (0.5) (0.5) (0.6) (0.5) (0.4) (0.4) (0.4) (0.6) (0.5) (0.7) (0.5) (0.5) (0.4) (0.5) (0.5) (0.5)	57.6 54.5 55.8 49.8 48.4 51.2 49.0 63.2 59.1 43.3 41.9 44.4 41.3 63.1 41.5 54.2 56.4 55.3	(1.8) (0.7) (0.7) (0.7) (0.7) (0.7) (1.1) (0.8) (0.7) (0.8) (1.0) (0.7) (0.8) (0.8) (0.8) (0.8) (0.8) (0.6) (0.7)	43.3 26.4 28.7 28.9 30.1 31.1 32.7 37.0 27.0 30.7 37.5 44.9 36.9 37.8 19.3 47.8 30.9 22.2 29.1	(0.7) (0.8) (0.6) (0.7) (1.0) (0.8) (0.8) (0.8) (0.8) (0.8) (1.0) (0.7) (0.5) (0.8) (0.8) (0.9) (0.7)
	Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar	6.2 3.5 5.7 9.6 5.3 4.1 3.0 3.2 8.2 5.2 6.8 7.0 2.3 4.0 4.0 6.8 6.3 6.1	(0.4) (0.4) (0.3) (0.3) (0.7) (0.4) (0.3) (0.3) (0.4) (0.3) (0.6) (0.4) (0.2) (0.4) (0.2) (0.3) (0.3)	11.5 12.3 7.2 13.5 10.0 13.7 9.6 6.8 12.7 12.7 9.9 12.0 11.9 6.7 7.3 9.2 16.3 11.9	(0.4) (0.5) (0.4) (0.5) (0.6) (0.5) (0.5) (0.6) (0.5) (0.6) (0.5) (0.8) (0.5) (0.4) (0.5) (0.4) (0.5) (0.4) (0.5)	59.4 56.1 60.5 54.0 51.7 56.3 55.9 65.4 64.8 51.2 50.5 50.1 41.9 66.8 52.0 56.1 58.9 59.1	(0.7) (0.7) (0.6) (0.7) (1.1) (0.8) (0.7) (0.7) (0.8) (0.7) (0.9) (1.0) (0.9) (0.7) (0.8) (0.9) (0.7) (0.8) (0.7) (0.8)	23.0 25.3 28.8 26.9 28.7 24.8 30.3 24.8 19.3 27.9 34.4 31.2 39.1 24.2 36.7 30.6 18.1 22.7 27.3	(0.7) (0.7) (0.7) (0.6) (1.0) (0.7) (0.6) (0.7) (0.8) (0.9) (1.2) (1.0) (0.7) (0.8) (0.9) (0.9) (0.9) (0.6)	5.5 6.4 3.5 6.2 10.1 5.2 4.0 3.0 2.7 7.1 4.7 6.6 7.0 2.4 3.6 3.9 7.0 6.1 6.0	(0.4) (0.4) (0.3) (0.6) (0.4) (0.4) (0.3) (0.4) (0.4) (0.6) (0.3) (0.2) (0.3) (0.3) (0.4) (0.3) (0.3) (0.4)	10.5 10.4 11.8 13.9 10.4 10.9 10.1 6.9 7.5 12.1 8.5 12.2 13.9 15.2 7.1 10.9 14.4 9.6 10.9	(0.4) (0.4) (0.5) (0.5) (0.6) (0.5) (0.4) (0.4) (0.6) (0.5) (0.7) (0.5) (0.5) (0.5) (0.5) (0.4) (0.6) (0.5) (0.4) (0.5)	57.6 54.5 55.8 49.8 48.4 51.2 49.0 63.2 59.1 43.3 41.9 44.4 41.3 63.1 41.5 54.2 56.3 50.0	(1.8) (0.7) (0.7) (0.7) (0.7) (1.1) (0.8) (1.0) (0.7) (0.8) (1.1) (0.8) (0.8) (0.8) (0.8) (0.6) (0.7) (0.6)	43.3 26.4 28.7 28.9 30.1 31.1 32.7 37.0 27.0 30.7 37.5 44.9 36.9 37.8 19.3 47.8 30.9 22.2 29.1 33.1	(0.7) (0.8) (0.6) (0.7) (1.0) (0.8) (0.8) (0.8) (0.8) (0.8) (1.0) (0.7) (0.5) (0.8) (0.8) (0.9) (0.7) (0.5)
	Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania	6.2 3.5 5.7 9.6 5.3 4.1 3.0 3.2 5.2 6.8 7.0 2.3 4.0 4.0 6.8 6.3 6.1 6.4	(0.4) (0.4) (0.3) (0.3) (0.7) (0.4) (0.3) (0.3) (0.4) (0.6) (0.4) (0.2) (0.4) (0.3) (0.3) (0.3) (0.3) (0.3)	11.5 12.3 7.2 13.5 10.0 13.7 9.6 6.8 12.7 12.7 9.9 12.0 11.9 6.7 7.3 9.2 16.3 11.4 12.0	(0.4) (0.5) (0.4) (0.5) (0.6) (0.5) (0.5) (0.5) (0.6) (0.5) (0.8) (0.5) (0.4) (0.6) (0.5) (0.4) (0.6) (0.5)	59.4 56.1 60.5 54.0 51.7 56.3 55.9 65.4 64.8 51.2 50.5 50.1 41.9 66.8 52.0 56.1 58.9 59.1 55.2	(0.7) (0.7) (0.6) (0.7) (1.1) (0.8) (0.7) (0.7) (0.8) (0.7) (0.9) (1.0) (0.9) (0.7) (0.8) (0.9) (0.7) (0.7) (0.7) (0.7)	23.0 25.3 28.8 26.9 28.7 24.8 30.3 24.8 19.3 27.9 34.4 31.2 39.1 24.2 36.7 30.6 18.1 22.7 27.3 27.6	(0.7) (0.7) (0.7) (0.6) (1.0) (0.7) (0.6) (0.7) (0.8) (0.9) (1.2) (1.0) (0.7) (0.8) (0.9) (0.6) (0.7) (0.5) (1.0)	5.5 6.4 3.5 6.2 10.1 5.2 4.0 2.7 7.1 6.6 7.0 2.4 3.9 7.0 6.1 6.0 6.3	(0.4) (0.4) (0.3) (0.3) (0.6) (0.4) (0.3) (0.3) (0.4) (0.6) (0.3) (0.3) (0.3) (0.3) (0.4) (0.3) (0.3) (0.4) (0.3)	10.5 10.4 11.8 13.9 10.4 10.9 10.1 6.9 7.5 12.1 8.5 12.2 13.9 15.2 7.1 10.9 14.4 9.6 10.9	(0.4) (0.4) (0.5) (0.5) (0.6) (0.5) (0.4) (0.4) (0.6) (0.7) (0.5) (0.5) (0.5) (0.5) (0.4) (0.5) (0.5) (0.4) (0.6)	57.6 54.5 55.8 49.8 48.4 51.2 49.0 63.2 59.1 43.3 41.9 44.4 41.3 63.1 41.5 54.2 56.4 55.3 50.0 52.5	(1.8) (0.7) (0.7) (0.7) (0.7) (1.1) (0.8) (1.0) (0.7) (0.8) (1.1) (0.8) (0.8) (0.8) (0.8) (0.6) (0.7) (0.8) (0.8) (0.7) (0.8) (0.7) (0.8) (1.0) (0.8) (1.0) (0.8) (1.0) (0.8) (1.0) (0.8)	43.3 26.4 28.7 28.9 30.1 31.1 32.7 37.0 27.0 30.7 37.5 44.9 36.9 37.8 19.3 47.8 30.9 22.2 29.1 33.1 27.0	(0.7) (0.8) (0.6) (0.7) (1.0) (0.8) (0.8) (0.8) (0.8) (0.8) (1.0) (0.7) (0.5) (0.8) (0.8) (0.8) (0.9) (0.8) (0.9) (0.8) (0.9) (0.7) (0.8)
	Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar	6.2 3.5 5.7 9.6 5.3 4.1 3.0 3.2 8.2 5.2 6.8 7.0 2.3 4.0 4.0 6.8 6.3 6.1	(0.4) (0.4) (0.3) (0.3) (0.7) (0.4) (0.3) (0.3) (0.4) (0.3) (0.6) (0.4) (0.2) (0.4) (0.2) (0.3) (0.3)	11.5 12.3 7.2 13.5 10.0 13.7 9.6 6.8 12.7 12.7 9.9 12.0 11.9 6.7 7.3 9.2 16.3 11.9	(0.4) (0.5) (0.4) (0.5) (0.6) (0.5) (0.5) (0.6) (0.5) (0.6) (0.5) (0.8) (0.5) (0.4) (0.5) (0.4) (0.5) (0.4) (0.5)	59.4 56.1 60.5 54.0 51.7 56.3 55.9 65.4 64.8 51.2 50.5 50.1 41.9 66.8 52.0 56.1 58.9 59.1	(0.7) (0.7) (0.6) (0.7) (1.1) (0.8) (0.7) (0.7) (0.8) (0.7) (0.9) (1.0) (0.9) (0.7) (0.8) (0.9) (0.7) (0.8) (0.7) (0.8)	23.0 25.3 28.8 26.9 28.7 24.8 30.3 24.8 19.3 27.9 34.4 31.2 39.1 24.2 36.7 30.6 18.1 22.7 27.3	(0.7) (0.7) (0.7) (0.6) (1.0) (0.7) (0.6) (0.7) (0.8) (0.9) (1.2) (1.0) (0.7) (0.8) (0.9) (0.9) (0.9) (0.6)	5.5 6.4 3.5 6.2 10.1 5.2 4.0 3.0 2.7 7.1 4.7 6.6 7.0 2.4 3.6 3.9 7.0 6.1 6.0	(0.4) (0.4) (0.3) (0.6) (0.4) (0.4) (0.3) (0.4) (0.4) (0.6) (0.3) (0.2) (0.3) (0.3) (0.4) (0.3) (0.3) (0.4)	10.5 10.4 11.8 13.9 10.4 10.9 10.1 6.9 7.5 12.1 8.5 12.2 13.9 15.2 7.1 10.9 14.4 9.6 10.9	(0.4) (0.4) (0.5) (0.5) (0.6) (0.5) (0.4) (0.4) (0.6) (0.5) (0.7) (0.5) (0.5) (0.5) (0.5) (0.4) (0.6) (0.5) (0.4) (0.5)	57.6 54.5 55.8 49.8 48.4 51.2 49.0 63.2 59.1 43.3 41.9 44.4 41.3 63.1 41.5 54.2 56.3 50.0	(1.8) (0.7) (0.7) (0.7) (0.7) (1.1) (0.8) (1.0) (0.7) (0.8) (1.1) (0.8) (0.8) (0.8) (0.8) (0.6) (0.7) (0.6)	43.3 26.4 28.7 28.9 30.1 31.1 32.7 37.0 27.0 30.7 37.5 44.9 36.9 37.8 19.3 47.8 30.9 22.2 29.1 33.1	(0.7) (0.8) (0.6) (0.7) (1.0) (0.8) (0.8) (0.8) (0.8) (0.8) (1.0) (0.7) (0.5) (0.8) (0.8) (0.9) (0.7) (0.5)
	Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei	6.2 3.5 5.7 9.6 5.3 4.1 3.0 3.2 8.2 5.2 6.8 7.0 2.3 4.0 6.8 6.3 6.1 6.4 5.3 2.0	(0.4) (0.4) (0.3) (0.3) (0.7) (0.4) (0.3) (0.3) (0.3) (0.4) (0.2) (0.4) (0.3) (0.3) (0.3) (0.3) (0.4) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.4) (0.3) (0.6) (0.7) (0.4) (0.3) (0.4) (0.3) (0.4) (0.3) (0.4) (0.3) (0.4) (0.3) (0.4) (0.3) (0.4) (0.3) (0.4)	11.5 12.3 7.2 13.5 10.0 13.7 9.6 6.8 12.7 12.0 11.9 6.7 7.3 9.2 16.3 11.9 12.0 11.4 12.0 12.1	(0.4) (0.5) (0.4) (0.5) (0.6) (0.5) (0.4) (0.5) (0.8) (0.5) (0.4) (0.5) (0.4) (0.6) (0.5) (0.3) (0.6) (0.5)	59.4 56.1 60.5 54.0 51.7 56.3 55.9 65.4 64.8 51.2 50.5 50.1 41.9 66.8 52.0 56.1 58.9 59.1 55.2 54.0 65.3 59.0	(0.7) (0.7) (0.6) (0.7) (1.1) (0.8) (0.7) (0.7) (0.8) (0.7) (0.9) (1.0) (0.9) (0.7) (0.8) (0.9) (0.7) (0.7) (0.6) (1.2) (0.7) (0.6) (1.2) (0.7) (0.7)	23.0 25.3 28.8 26.9 28.7 24.8 19.3 27.9 34.4 31.2 39.1 24.2 36.7 30.6 18.1 22.7 27.3 27.6 17.2 34.9 34.6	(0.7) (0.7) (0.7) (0.6) (1.0) (0.7) (0.6) (0.7) (0.8) (0.9) (1.2) (1.0) (0.7) (0.8) (0.9) (0.6) (0.7) (0.5) (1.0) (0.7) (0.7)	5.5 6.4 3.5 6.2 10.1 5.2 4.0 3.0 2.7 7.1 4.7 6.6 7.0 2.4 3.6 3.9 7.0 6.1 6.0 6.3 5.2 2.1	(0.4) (0.4) (0.3) (0.3) (0.6) (0.4) (0.3) (0.3) (0.4) (0.6) (0.3) (0.2) (0.3) (0.4) (0.3) (0.4) (0.3) (0.4) (0.5) (0.5) (0.5) (0.5)	10.5 10.4 11.8 13.9 10.4 10.9 10.1 6.9 7.5 12.1 13.9 15.2 13.9 15.2 7.1 10.9 14.4 9.0 9.1 14.2 12.8 2.9 4.2	(0.4) (0.4) (0.5) (0.5) (0.6) (0.5) (0.4) (0.4) (0.6) (0.7) (0.5) (0.5) (0.4) (0.5) (0.5) (0.4) (0.5) (0.5) (0.5) (0.6) (0.5) (0.5)	57.6 54.5 55.8 49.8 48.4 51.2 49.0 63.2 59.1 43.3 41.9 44.4 41.3 63.1 41.5 54.2 56.4 55.3 50.0 52.5 62.3 52.2 61.7	(1.8) (0.7) (0.7) (0.7) (0.7) (1.1) (0.8) (1.0) (0.7) (0.8) (1.1) (0.8) (0.8) (0.8) (0.6) (0.7) (0.6) (1.0) (0.7) (0.7) (0.7)	43.3 26.4 28.7 28.9 30.1 31.1 32.7 37.0 27.0 30.7 37.5 44.9 36.9 37.8 19.3 47.8 30.9 22.2 29.1 33.1 27.0 19.7 42.9	(0.7) (0.8) (0.6) (0.7) (1.0) (0.8) (0.8) (0.8) (0.8) (0.8) (0.7) (0.7) (0.5) (0.8) (0.7) (0.7) (0.7)
	Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand	6.2 3.5 5.7 9.6 5.3 4.1 3.0 3.2 8.2 5.2 6.8 7.0 2.3 4.0 6.8 6.3 6.1 6.4 5.3 2.0 2.0	(0.4) (0.4) (0.3) (0.3) (0.7) (0.4) (0.3) (0.3) (0.4) (0.3) (0.6) (0.4) (0.2) (0.4) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.4) (0.4) (0.5) (0.6) (0.6) (0.7) (0.4) (0.6) (0.7) (0.4) (0.6) (0.7) (0.4) (0.8)	11.5 12.3 7.2 13.5 10.0 13.7 9.6 6.8 12.7 12.7 9.9 12.0 11.9 6.7 3 9.2 16.3 11.9 11.4 12.0 12.1 4.1 3.7 9.5	(0.4) (0.5) (0.4) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.8) (0.5) (0.4) (0.5) (0.4) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5)	59.4 56.1 60.5 54.0 51.7 56.3 55.9 65.4 64.8 51.2 50.5 50.1 41.9 66.8 52.0 56.1 58.9 59.1 55.2 54.0 65.3 59.0 65.3 65.4	(0.7) (0.7) (0.6) (0.6) (0.7) (1.1) (0.8) (0.7) (0.8) (0.7) (0.9) (1.0) (0.9) (0.7) (0.6) (1.2) (0.7) (0.7) (0.7)	23.0 25.3 28.8 26.9 28.7 24.8 30.3 24.8 19.3 27.9 34.4 31.2 39.1 24.2 36.7 30.6 18.1 22.7 27.3 27.6 17.2 34.9 17.5	(0.7) (0.7) (0.7) (0.6) (1.0) (0.7) (0.6) (0.7) (0.8) (0.9) (1.2) (1.0) (0.7) (0.8) (0.9) (0.6) (0.7) (0.5) (1.0) (0.7) (0.7) (0.7) (0.7)	5.5 6.4 3.5 6.2 10.1 5.2 4.0 2.7 7.1 4.7 6.6 7.0 2.4 3.9 7.0 6.1 6.3 5.2 2.1	(0.4) (0.4) (0.3) (0.3) (0.6) (0.4) (0.3) (0.3) (0.4) (0.6) (0.3) (0.2) (0.3) (0.4) (0.3) (0.2) (0.3) (0.4) (0.3) (0.5) (0.5) (0.5) (0.7) (0.5) (0.2) (0.2)	10.5 10.4 11.8 13.9 10.4 10.9 10.1 6.9 7.5 12.1 8.5 12.2 13.9 15.2 7.1 10.9 14.4 9.6 10.9 14.2 12.8 2.9	(0.4) (0.4) (0.5) (0.5) (0.6) (0.5) (0.4) (0.4) (0.6) (0.5) (0.7) (0.5) (0.5) (0.5) (0.4) (0.5) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5)	57.6 54.5 55.8 49.8 48.4 51.2 49.0 63.2 59.1 43.3 41.9 44.4 41.3 63.1 41.5 54.2 56.4 55.3 50.0 52.5 62.3 52.2 68.2	(1.8) (0.7) (0.7) (0.7) (0.7) (0.8) (0.8) (1.0) (0.8) (1.1) (0.8) (0.8) (0.8) (0.6) (0.7) (0.6) (1.0) (0.7) (0.6) (1.0) (0.7) (0.7) (0.7)	43.3 26.4 28.7 28.9 30.1 31.1 32.7 37.0 27.0 30.7 37.5 44.9 36.9 37.8 19.3 47.8 30.9 22.2 29.1 33.1 27.0 19.7 42.9 32.0 21.3	(0.7) (0.8) (0.6) (0.7) (1.0) (0.8) (0.8) (0.8) (0.8) (1.0) (0.7) (0.5) (0.8) (0.6) (0.7) (0.5) (0.8) (0.7) (0.7) (0.7)
	Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	6.2 3.5 5.7 9.6 5.3 4.1 3.0 3.2 8.2 5.2 6.8 7.0 2.3 4.0 4.0 4.0 6.8 6.3 6.1 6.4 5.3 2.0 2.0	(0.4) (0.4) (0.4) (0.3) (0.3) (0.3) (0.3) (0.3) (0.4) (0.3) (0.4) (0.2) (0.4) (0.3) (0.3) (0.3) (0.3) (0.4) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.4) (0.3)	11.5 12.3 7.2 13.5 10.0 13.7 9.6 6.8 12.7 12.7 12.0 11.9 6.7 7.3 9.2 16.3 11.9 11.4 12.0 12.1 4.1 3.7 9.6 6.8	(0.4) (0.5) (0.4) (0.5) (0.6) (0.5) (0.4) (0.5) (0.4) (0.5) (0.4) (0.5) (0.4) (0.5) (0.4) (0.5) (0.3) (0.6) (0.5) (0.3) (0.6)	59.4 56.1 60.5 54.0 51.7 56.3 55.9 65.4 64.8 51.2 50.5 50.1 41.9 66.8 52.0 56.1 58.9 59.1 55.2 54.0 65.3 59.0 59.6 71.1	(0.7) (0.7) (0.6) (0.7) (1.1) (0.8) (0.7) (0.7) (0.9) (1.0) (0.9) (0.7) (0.6) (0.7) (0.6) (1.2) (0.7) (0.6) (1.2) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.8)	23.0 25.3 28.8 26.9 28.7 24.8 19.3 27.9 34.4 31.2 39.1 24.2 36.7 30.6 18.1 22.7 27.3 27.6 17.2 34.9 34.6 17.5	(0.7) (0.7) (0.7) (0.6) (1.0) (0.7) (0.6) (0.7) (0.8) (0.9) (1.2) (1.0) (0.7) (0.8) (0.9) (0.7) (0.5) (1.0) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7)	5.5 6.4 3.5 6.2 10.1 5.2 4.0 3.0 2.7 7.1 4.7 6.6 7.0 2.4 3.6 3.9 7.0 6.1 6.0 6.3 5.2 2.1 2.1	(0.4) (0.4) (0.4) (0.3) (0.3) (0.6) (0.4) (0.3) (0.4) (0.6) (0.3) (0.2) (0.3) (0.3) (0.2) (0.3) (0.2) (0.7) (0.5) (0.2) (0.5) (0.2) (0.4)	10.5 10.4 11.8 13.9 10.4 10.9 10.1 6.9 7.5 12.1 8.5 12.2 13.9 15.2 7.1 10.9 14.4 9.6 10.9 14.2 2.9 4.2 8.5 9.6 10.9	(0.4) (0.4) (0.5) (0.5) (0.6) (0.5) (0.4) (0.4) (0.4) (0.5) (0.7) (0.5) (0.4) (0.5) (0.4) (0.3) (0.6) (0.5) (0.4) (0.2) (0.4)	57.6 54.5 55.8 49.8 48.4 51.2 49.0 63.2 59.1 43.3 41.9 44.4 41.3 56.4 55.3 50.0 52.5 62.3 52.2 68.2 46.8	(1.8) (0.7) (0.7) (0.7) (0.7) (0.8) (1.0) (0.8) (1.1) (0.8) (0.8) (0.8) (0.8) (0.6) (0.7) (0.6) (1.0) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7)	43.3 26.4 28.7 28.9 30.1 31.1 32.7 37.0 27.0 30.7 37.5 44.9 36.9 37.8 30.9 22.2 29.1 33.1 27.0 19.7 42.9 32.0 21.3 41.4	(0.7) (0.8) (0.6) (0.7) (1.0) (0.8) (0.8) (0.8) (0.8) (0.7) (0.5) (0.8) (0.8) (0.6) (0.7) (0.5) (0.8) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7)
	Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	6.2 3.5 5.7 9.6 5.3 4.1 3.0 3.2 8.2 5.2 6.8 7.0 2.3 4.0 4.0 6.8 6.3 6.1 6.4 5.2 0 2.0 1.9 6.5	(0.4) (0.4) (0.3) (0.3) (0.7) (0.4) (0.3) (0.3) (0.3) (0.4) (0.3) (0.6) (0.4) (0.2) (0.4) (0.3) (0.3) (0.3) (0.4) (0.3) (0.3) (0.3) (0.3) (0.4) (0.3) (0.4) (0.3) (0.3) (0.4) (0.3) (0.3) (0.4) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.4) (0.3) (0.3) (0.4) (0.3) (0.3) (0.4) (0.3) (0.4) (0.3) (0.4) (0.3) (0.4) (0.3) (0.4) (0.3) (0.4) (0.3) (0.4) (0.3) (0.4) (0.3) (0.4) (0.3) (0.4) (0.3) (0.4) (0.3) (0.3) (0.4) (0.3) (0.4) (0.3) (0.3) (0.4) (0.3) (0.4) (0.3) (0.4) (0.3) (0.4) (0.3) (0.4) (0.3) (0.4) (0.4) (0.2) (0.4)	11.5 12.3 7.2 13.5 10.0 13.7 9.6 6.8 12.7 12.0 11.9 6.7 7.3 9.2 16.3 11.9 11.4 12.0 12.1 4.1 3.7 9.5 6.8	(0.4) (0.5) (0.4) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.4) (0.5) (0.4) (0.5) (0.3) (0.6) (0.5) (0.3) (0.6) (0.5) (0.6) (0.5)	59.4 56.1 60.5 54.0 51.7 56.3 55.9 65.4 64.8 51.2 50.5 50.1 41.9 66.8 52.0 56.1 58.9 59.1 55.2 54.0 65.3 59.0 59.6 71.1 53.6 53.8	(0.7) (0.7) (0.6) (0.7) (1.1) (0.8) (0.7) (0.7) (0.8) (0.7) (0.9) (1.0) (0.9) (0.7) (0.8) (0.9) (0.7) (0.6) (1.2) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.8)	23.0 25.3 28.8 26.9 28.7 24.8 19.3 27.9 34.4 31.2 39.1 24.2 36.7 30.6 18.1 22.7 27.3 27.6 17.5 34.6 17.5 34.6 20.8	(0.7) (0.7) (0.7) (0.6) (1.0) (0.7) (0.6) (0.7) (0.8) (0.9) (1.2) (1.0) (0.7) (0.8) (0.9) (0.6) (0.7) (0.5) (1.10) (0.7) (0.7) (0.7) (0.7) (0.7)	5.5 6.4 3.5 6.2 10.1 5.2 4.0 3.0 2.7 7.1 4.7 6.6 7.0 2.4 3.6 3.9 7.0 6.1 6.0 6.3 5.2 2.1 2.1	(0.4) (0.4) (0.3) (0.3) (0.6) (0.4) (0.3) (0.3) (0.4) (0.6) (0.3) (0.2) (0.3) (0.3) (0.3) (0.4) (0.6) (0.3) (0.2) (0.7) (0.5) (0.2) (0.2) (0.2) (0.2) (0.4)	10.5 10.4 11.8 13.9 10.4 10.9 10.1 6.9 7.5 12.1 18.5 12.2 13.9 15.2 7.1 10.9 14.4 9.6 10.9 14.2 12.8 9.6 10.9 14.2 12.8 13.9 15.2 12.9 15.0 16.9 16.9 16.9 16.9 16.9 16.9 16.9 16.9	(0.4) (0.4) (0.5) (0.5) (0.6) (0.5) (0.4) (0.4) (0.4) (0.5) (0.7) (0.5) (0.5) (0.4) (0.5) (0.4) (0.5) (0.5) (0.4) (0.6) (0.5) (0.4) (0.4) (0.5) (0.5)	57.6 54.5 55.8 49.8 48.4 51.2 59.1 43.3 41.9 44.4 41.3 63.1 55.4 2 56.4 55.3 50.0 52.5 62.3 62.7 68.2 46.8	(1.8) (0.7) (0.7) (0.7) (0.7) (1.1) (0.8) (0.7) (0.8) (1.1) (0.8) (0.8) (0.8) (0.8) (0.6) (0.7) (0.6) (1.0) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7)	43.3 26.4 28.7 28.9 30.1 31.1 32.7 37.0 27.0 30.7 37.5 44.9 36.9 37.8 19.3 47.8 30.9 22.2 29.1 33.1 27.0 19.7 42.9 32.0 21.3 41.4 26.0	(0.7) (0.8) (0.6) (0.7) (1.0) (0.8) (0.8) (0.5) (0.5) (0.8) (0.5) (0.5) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7)
	Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	6.2 3.5 5.7 9.6 5.3 4.1 3.0 3.2 8.2 5.2 6.8 7.0 2.3 4.0 6.8 6.3 6.1 6.4 5.3 2.0 1.9 6.0 6.5	(0.4) (0.4) (0.3) (0.3) (0.7) (0.4) (0.3) (0.3) (0.3) (0.4) (0.2) (0.4) (0.3) (0.3) (0.3) (0.3) (0.4) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.4) (0.3) (0.6) (0.4) (0.6) (0.7) (0.4) (0.6) (0.6) (0.7) (0.6) (0.7) (0.6) (0.7) (0.7) (0.7) (0.8)	11.5 12.3 7.2 13.5 10.0 13.7 9.6 6.8 12.7 12.7 12.0 11.9 6.7 7.3 9.2 16.3 11.9 12.0 12.1 4.1 9.5 6.8	(0.4) (0.5) (0.4) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.8) (0.5) (0.4) (0.6) (0.5) (0.3) (0.6) (0.5) (0.4) (0.5) (0.4) (0.5) (0.4) (0.5)	59.4 56.1 60.5 54.0 51.7 56.3 55.9 65.4 64.8 51.2 50.5 50.1 41.9 66.8 52.0 56.1 58.9 59.1 55.9 57.1 58.9 59.1 59.9	(0.7) (0.7) (0.6) (0.6) (0.7) (1.1) (0.8) (0.7) (0.8) (0.7) (0.9) (1.0) (0.9) (0.7) (0.7) (0.7) (0.6) (1.2) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.6)	23.0 25.3 28.8 26.9 28.7 24.8 30.3 24.8 19.3 27.9 34.4 31.2 39.1 24.2 36.7 30.6 18.1 22.7 27.3 27.6 17.2 34.9 17.5 33.6 17.5 33.6 20.8 20.9	(0.7) (0.7) (0.7) (0.6) (1.0) (0.7) (0.6) (0.7) (0.8) (0.9) (1.2) (1.0) (0.7) (0.8) (0.9) (0.6) (0.7) (0.5) (1.0) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7)	5.5 6.4 3.5 6.2 10.1 5.2 4.0 3.0 2.7 7.1 6.6 7.0 2.4 3.9 7.0 6.3 5.2 2.1 1.6 6.0 5.1	(0.4) (0.4) (0.3) (0.3) (0.6) (0.4) (0.3) (0.3) (0.4) (0.6) (0.3) (0.2) (0.3) (0.4) (0.3) (0.2) (0.7) (0.5) (0.2) (0.2) (0.2) (0.4) (0.3)	10.5 10.4 11.8 13.9 10.4 10.9 10.1 6.9 7.5 12.1 13.9 15.2 13.9 15.2 10.9 14.4 9.6 10.9 14.2 12.8 2.9 4.2 8.9 5.8	(0.4) (0.4) (0.4) (0.5) (0.5) (0.6) (0.5) (0.4) (0.4) (0.6) (0.5) (0.7) (0.5) (0.5) (0.4) (0.5) (0.5) (0.4) (0.3) (0.6) (0.5) (0.4) (0.4) (0.4) (0.5) (0.5) (0.7) (0.5) (0.5) (0.7) (0.5) (0.7) (0.5) (0.7) (0.7) (0.7) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8)	57.6 54.5 55.8 49.8 48.4 51.2 49.0 63.2 59.1 43.3 41.9 44.4 41.3 63.1 54.2 56.4 55.3 50.0 52.5 62.3 52.2 68.2 46.8 49.0 49.0	(1.8) (0.7) (0.7) (0.7) (0.7) (0.8) (1.0) (0.8) (1.1) (0.8) (0.8) (0.8) (0.8) (0.6) (0.7) (0.6) (1.0) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7)	43.3 26.4 28.7 28.9 30.1 31.1 32.7 37.0 27.0 30.7 37.5 44.9 36.9 37.8 19.3 47.8 30.9 22.2 29.1 33.1 27.0 19.7 42.9 32.0 21.3 41.4 26.0 37.5	(0.7) (0.8) (0.6) (0.7) (1.0) (0.8) (0.8) (0.8) (0.8) (0.8) (0.7) (0.5) (0.8) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.9)
	Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	6.2 3.5 5.7 9.6 5.3 4.1 3.0 3.2 8.2 5.2 6.8 7.0 2.3 4.0 4.0 6.8 6.3 6.1 6.4 5.2 0 2.0 1.9 6.5	(0.4) (0.4) (0.3) (0.3) (0.7) (0.4) (0.3) (0.3) (0.3) (0.4) (0.3) (0.6) (0.4) (0.2) (0.7) (0.4) (0.2) (0.7) (0.2) (0.2) (0.2) (0.2) (0.5)	11.5 12.3 7.2 13.5 10.0 13.7 9.6 6.8 12.7 12.0 11.9 6.7 7.3 9.2 16.3 11.9 11.4 12.0 12.1 4.1 3.7 9.5 6.8	(0.4) (0.5) (0.4) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.4) (0.5) (0.4) (0.5) (0.3) (0.6) (0.5) (0.3) (0.6) (0.5) (0.6) (0.5)	59.4 56.1 60.5 54.0 51.7 56.3 55.9 65.4 64.8 51.2 50.5 50.1 41.9 66.8 52.0 56.1 58.9 59.1 55.2 54.0 65.3 59.0 59.6 71.1 53.6 53.8	(0.7) (0.7) (0.6) (0.7) (1.1) (0.8) (0.7) (0.7) (0.8) (0.7) (0.9) (1.0) (0.9) (0.7) (0.8) (0.9) (0.7) (0.6) (1.2) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.8)	23.0 25.3 28.8 26.9 28.7 24.8 19.3 27.9 34.4 31.2 39.1 24.2 36.7 30.6 18.1 22.7 27.3 27.6 17.5 34.6 17.5 34.6 20.8	(0.7) (0.7) (0.7) (0.6) (1.0) (0.7) (0.6) (0.7) (0.8) (0.9) (1.2) (1.0) (0.7) (0.8) (0.9) (0.6) (0.7) (0.5) (1.10) (0.7) (0.7) (0.7) (0.7) (0.7)	5.5 6.4 3.5 6.2 10.1 5.2 4.0 3.0 2.7 7.1 4.7 6.6 7.0 2.4 3.6 3.9 7.0 6.1 6.0 6.3 5.2 2.1 2.1	(0.4) (0.4) (0.3) (0.3) (0.6) (0.4) (0.3) (0.3) (0.4) (0.6) (0.3) (0.2) (0.3) (0.3) (0.3) (0.4) (0.6) (0.3) (0.2) (0.7) (0.5) (0.2) (0.2) (0.2) (0.2) (0.4)	10.5 10.4 11.8 13.9 10.4 10.9 10.1 6.9 7.5 12.1 18.5 12.2 13.9 15.2 7.1 10.9 14.4 9.6 10.9 14.2 12.8 9.6 10.9 14.2 12.8 13.9 15.2 12.9 15.0 16.9 16.9 16.9 16.9 16.9 16.9 16.9 16.9	(0.4) (0.4) (0.5) (0.5) (0.6) (0.5) (0.4) (0.4) (0.4) (0.5) (0.7) (0.5) (0.5) (0.4) (0.5) (0.4) (0.5) (0.5) (0.4) (0.6) (0.5) (0.4) (0.4) (0.5) (0.5)	57.6 54.5 55.8 49.8 48.4 51.2 59.1 43.3 41.9 44.4 41.3 63.1 55.4 2 56.4 55.3 50.0 52.5 62.3 62.7 68.2 46.8	(1.8) (0.7) (0.7) (0.7) (0.7) (1.1) (0.8) (0.7) (0.8) (1.1) (0.8) (0.8) (0.8) (0.8) (0.6) (0.7) (0.6) (1.0) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7)	43.3 26.4 28.7 28.9 30.1 31.1 32.7 37.0 27.0 30.7 34.9 36.9 37.8 19.3 47.8 30.9 22.2 29.1 33.1 27.0 19.7 42.9 32.0 21.3 41.4 26.0	(0.7) (0.8) (0.6) (0.7) (1.0) (0.8) (0.8) (0.9) (0.8) (0.7) (0.5) (0.8) (0.6) (0.7) (0.5) (0.8) (0.7) (0.7) (0.7) (0.7) (0.7)
	Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	6.2 3.5 5.7 9.6 5.3 4.1 3.0 3.2 8.2 5.2 6.8 7.0 2.3 4.0 6.8 6.3 6.1 6.4 5.3 2.0 2.0 2.0 4.0	(0.4) (0.4) (0.4) (0.3) (0.7) (0.4) (0.3) (0.3) (0.3) (0.6) (0.4) (0.2) (0.4) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.4) (0.3) (0.5)	11.5 12.3 7.2 13.5 10.0 13.7 9.6 6.8 12.7 12.7 12.0 11.9 12.0 11.9 11.4 12.0 12.1 4.1 3.7 9.5 6.8 14.0 10.2 10.2	(0.4) (0.5) (0.4) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.4) (0.5) (0.4) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.6) (0.5) (0.6)	59.4 56.1 60.5 54.0 51.7 56.3 55.9 65.4 64.8 51.2 50.5 50.1 41.9 66.8 52.0 56.1 58.9 59.1 55.2 54.0 65.3 59.0 65.3 59.6 71.1 53.6 58.8 59.6 71.1 53.6 58.8 59.6 71.1 53.6 58.8 59.6 70.6	(0.7) (0.7) (0.6) (0.7) (1.1) (0.8) (0.7) (0.8) (0.7) (0.9) (1.0) (0.9) (0.7) (0.6) (1.2) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.8)	23.0 25.3 28.8 26.9 28.7 24.8 30.3 27.9 34.4 31.2 39.1 24.2 36.7 30.6 18.1 22.7 27.3 27.6 17.2 34.6 17.5 33.6 20.9 24.0	(0.7) (0.7) (0.7) (0.6) (1.0) (0.7) (0.6) (0.7) (0.8) (0.9) (1.2) (1.0) (0.7) (0.8) (0.9) (1.2) (1.0) (0.7) (0.5) (1.0) (0.7) (0.8) (0.7) (0.7) (0.8) (0.7) (0.8) (0.7) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.7) (0.8) (0.7)	5.5 6.4 3.5 6.2 10.1 5.2 4.0 2.7 7.1 4.7 6.6 7.0 2.4 3.6 3.9 7.0 6.1 6.3 5.2 2.1 1.6 6.0 5.1 4.4	(0.4) (0.4) (0.4) (0.3) (0.6) (0.4) (0.3) (0.3) (0.4) (0.6) (0.3) (0.2) (0.3) (0.4) (0.3) (0.2) (0.3) (0.2) (0.3) (0.2) (0.3) (0.4) (0.3) (0.4) (0.3) (0.4) (0.3) (0.4) (0.3) (0.4) (0.4) (0.3) (0.4) (0.3) (0.4) (0.4) (0.5) (0.4) (0.6) (0.4) (0.6) (0.6) (0.6) (0.6) (0.6) (0.6) (0.6) (0.6) (0.6) (0.6) (0.6) (0.6) (0.7) (0.6) (0.7)	10.5 10.4 11.8 13.9 10.4 10.9 10.1 6.9 7.5 12.1 8.9 15.2 7.1 10.9 14.4 9.6 10.9 14.2 12.8 2.9 5.8 12.8 2.9 15.2 11.3	(0.4) (0.4) (0.5) (0.5) (0.6) (0.5) (0.4) (0.4) (0.6) (0.5) (0.7) (0.5) (0.5) (0.5) (0.4) (0.5) (0.6) (0.5) (0.4) (0.4) (0.4) (0.4) (0.5) (0.5) (0.4) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.6) (0.7) (0.5) (0.5) (0.7) (0.5) (0.7) (0.5) (0.7) (0.5) (0.7) (0.5) (0.7) (0.5) (0.7) (0.5) (0.7) (0.5) (0.7) (0.5) (0.7)	57.6 54.5 55.8 49.8 48.4 51.2 49.0 63.2 59.1 43.3 41.9 44.4 41.3 63.1 54.2 56.4 55.3 50.0 52.5 62.3 52.2 61.7 68.2 46.8 56.4 95.3	(1.8) (0.7) (0.7) (0.7) (0.7) (0.8) (0.8) (1.0) (0.8) (0.8) (0.8) (0.8) (0.8) (0.6) (0.7) (0.6) (1.0) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.9) (1.0)	43.3 26.4 28.7 28.9 30.1 31.1 32.7 37.0 27.0 30.7 44.9 36.9 37.8 19.3 47.8 30.9 22.2 29.1 33.1 27.0 27.0 29.0 20.0	(0.7) (0.8) (0.6) (0.7) (1.0) (0.8) (0.8) (0.8) (0.8) (0.8) (0.5) (0.5) (0.5) (0.6) (0.7)
	Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	6.2 3.5 5.7 9.6 5.3 4.1 3.0 3.2 8.2 5.2 6.8 7.0 2.3 4.0 6.8 6.3 6.1 6.4 5.3 2.0 2.0 2.0 4.0 6.6 5.3	(0.4) (0.4) (0.4) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.4) (0.2) (0.4) (0.3) (0.3) (0.3) (0.3) (0.3) (0.3) (0.4) (0.2) (0.4) (0.2) (0.2) (0.2) (0.5) (0.5) (0.5) (0.5) (0.6)	11.5 12.3 7.2 13.5 10.0 13.7 9.6 6.8 12.7 12.7 9.9 12.0 11.9 11.4 12.0 14.1 3.7 9.5 6.8 14.0 10.2 11.9 11.4 12.1 4.1 3.5 12.1 4.1 13.7 14.7 15.8 16.8 16.8 16.8 16.8 16.8 16.8 16.8 16	(0.4) (0.5) (0.4) (0.5) (0.6) (0.5) (0.6) (0.5) (0.4) (0.5) (0.4) (0.5) (0.4) (0.5) (0.3) (0.6) (0.5) (0.3) (0.6) (0.5) (0.4) (0.5) (0.5) (0.5) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.6)	59.4 56.1 60.5 54.0 51.7 56.3 55.9 65.4 64.8 51.2 50.5 50.1 41.9 66.8 52.0 56.1 58.9 59.1 55.2 54.0 65.3 59.0 59.6 57.1 53.6 58.8 55.8	(0.7) (0.7) (0.6) (0.7) (1.1) (0.8) (0.7) (0.7) (0.8) (0.7) (0.9) (1.0) (0.9) (1.0) (0.7) (0.7) (0.6) (1.2) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.7) (0.8) (1.1)	23.0 25.3 28.8 26.9 28.7 24.8 19.3 27.9 34.4 31.2 39.1 24.2 36.7 30.6 18.1 22.7 27.3 27.6 17.2 34.9 34.6 17.5 33.6 20.8 29.9 24.0 30.3	(0.7) (0.7) (0.7) (0.6) (1.0) (0.7) (0.6) (0.7) (0.8) (0.9) (1.2) (1.0) (0.7) (0.8) (0.9) (0.7) (0.5) (1.0) (0.7) (0.8) (0.7) (0.7) (0.8) (0.7) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.7) (0.8) (0.7)	5.5 6.4 3.5 6.2 10.1 5.2 4.0 3.0 2.7 7.1 4.7 6.6 7.0 2.4 3.6 3.9 7.0 6.1 6.0 5.2 2.1 2.1 2.1 4.6 6.0 5.2 4.0 4.0 4.0 4.0 6.0 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	(0.4) (0.4) (0.4) (0.3) (0.3) (0.6) (0.4) (0.3) (0.4) (0.6) (0.3) (0.2) (0.3) (0.3) (0.2) (0.3) (0.2) (0.5) (0.2) (0.2) (0.4) (0.4) (0.5)	10.5 10.4 11.8 13.9 10.4 10.9 10.1 6.9 7.5 12.1 8.5 12.2 13.9 15.2 7.1 10.9 14.4 9.6 10.9 14.2 8.9 4.2 9.5 8.9 12.6 8.9 11.3 12.2	(0.4) (0.4) (0.4) (0.5) (0.5) (0.6) (0.5) (0.4) (0.4) (0.6) (0.5) (0.7) (0.5) (0.4) (0.5) (0.4) (0.3) (0.6) (0.5) (0.2) (0.2) (0.4) (0.4) (0.5) (0.5) (0.5) (0.5) (0.7) (0.5) (0.7)	57.6 54.5 55.8 49.8 48.4 51.2 49.0 63.2 59.1 43.3 41.9 44.4 41.3 56.4 55.3 50.0 52.5 62.3 52.2 61.7 68.2 46.8 56.4 49.9	(1.8) (0.7) (0.7) (0.7) (0.7) (0.8) (0.8) (0.7) (0.8) (1.0) (0.8) (0.8) (0.8) (0.8) (0.6) (0.7) (0.6) (1.0) (0.7) (0.8) (0.7) (0.8) (0.8) (0.7) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.7) (0.8) (0.8) (0.8) (0.7) (0.8) (0.8) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7) (0.8) (0.7)	43.3 26.4 28.7 28.9 30.1 31.1 32.7 37.0 27.0 30.7 44.9 36.9 37.8 19.3 47.8 30.9 22.2 29.1 33.1 27.0 21.3 41.4 26.0 37.5 26.7 34.3	(0.7) (0.8) (0.6) (0.7) (1.0) (0.8) (0.8) (0.8) (0.8) (0.5) (0.5) (0.5) (0.5) (0.7)

PISA 2015 RESULTS (VOLUME II): POLICIES AND PRACTICES FOR SUCCESSFUL SCHOOLS

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** bttp://dx.doi.org/10.1787/888933436477



[Part 3/3]

Table II.2.1 Epistemic beliefs

Results based on students' self-reports

							Percentag	e of stude	ents repor	ting that.	••					
		Sometim			scientists		neir minds									
			T		true in sc	ience			Т	he ideas ir	 broad s	science> s	cience bo	oks somet	imes char	ıge
	Strongly	disagree	Disa	agree	Ag	gree	Strong	ly agree	Strongly	disagree	Disa	agree	Ag	ree	Strong	ly agre
	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E
Australia	3.0	(0.2)	9.8	(0.3)	62.8	(0.6)	24.5	(0.5)	3.4	(0.2)	10.9	(0.3)	61.9	(0.6)	23.8	(0.5
Austria	8.3	(0.4)	24.5	(0.6)	46.3	(0.7)	20.9	(0.6)	9.0	(0.4)	24.3	(0.6)	43.5	(0.7)	23.2	(0.6
Belgium Canada	4.1 3.6	(0.3)	14.3 8.4	(0.4)	65.2 60.5	(0.6)	16.4 27.5	(0.5)	5.0 3.7	(0.3)	15.5	(0.5)	63.4 58.2	(0.6)	16.1 29.0	(0.5
Chile	6.2	(0.2)	19.0	(0.3)	58.9	(0.5)	15.9	(0.5)	7.0	(0.2)	9.1	(0.4)	56.2	(0.6)	14.6	(0.0
Czech Republic	4.5	(0.3)	14.1	(0.5)	69.8	(0.8)	11.7	(0.4)	5.0	(0.4)	18.2	(0.6)	65.5	(0.7)	11.4	(0.4
Denmark	4.3	(0.3)	6.8	(0.4)	54.5	(0.9)	34.4	(0.8)	4.4	(0.3)	14.6	(0.5)	62.3	(0.8)	18.7	(0.
Estonia	3.3	(0.3)	13.8	(0.4)	68.4	(0.6)	14.4	(0.5)	3.5	(0.3)	11.2	(0.5)	69.4	(0.8)	15.9	(0.
Finland	4.3	(0.3)	17.8	(0.6)	65.9	(0.7)	12.0	(0.5)	4.4	(0.3)	14.9	(0.6)	68.8	(0.7)	12.0	(0.
France	4.1	(0.4)	15.1	(0.5)	61.8	(0.6)	18.9	(0.6)	4.5	(0.4)	15.6	(0.5)	58.8	(0.7)	21.1	(0.
Germany Greece	5.8 4.7	(0.5)	28.8	(0.9)	48.3 60.5	(0.8)	17.0 14.4	(0.7)	6.7 5.9	(0.4)	27.2 24.6	(0.8)	48.1 54.1	(0.9)	18.0	(0.
Hungary	6.9	(0.4)	25.2	(0.8)	58.3	(0.7)	9.5	(0.5)	6.9	(0.5)	22.9	(0.8)	59.8	(0.7)	10.5	(0.
Iceland	4.7	(0.3)	8.7	(0.7)	59.3	(0.7)	27.2	(0.8)	5.0	(0.4)	9.9	(0.6)	58.9	(1.0)	26.2	(0.
Ireland	2.6	(0.2)	15.9	(0.5)	64.5	(0.7)	17.1	(0.6)	2.5	(0.3)	15.7	(0.5)	63.9	(0.7)	17.9	(0.
Israel	5.7	(0.4)	13.7	(0.5)	55.0	(0.6)	25.6	(0.6)	6.3	(0.4)	15.3	(0.6)	53.2	(0.8)	25.2	(0.
Italy	5.0	(0.4)	18.5	(0.5)	62.7	(0.7)	13.8	(0.4)	4.6	(0.4)	19.2	(0.5)	61.4	(0.6)	14.7	(0.
Japan	4.8	(0.3)	18.9	(0.5)	58.3	(0.6)	18.1	(0.6)	5.3	(0.3)	17.8	(0.6)	57.5	(0.7)	19.5	(0.
Korea	3.1	(0.3)	9.0	(0.5)	67.4	(0.8)	20.5	(0.8)	3.3	(0.3)	10.4	(0.5)	68.3	(0.8)	17.9	(0.
Luxambaura	6.5	(0.4)	14.8	(0.5)	65.7	(0.7)	13.1	(0.5)	6.3	(0.4)	15.9	(0.6)	64.5	(0.9)	13.3	(0.
Luxembourg Mexico	7.6 5.9	(0.4)	24.6 19.0	(0.6)	51.4 60.6	(0.7)	16.4 14.5	(0.6)	7.3 5.6	(0.4)	24.7 17.1	(0.7)	49.1 60.9	(0.8)	18.9 16.4	(0.
Netherlands	3.9	(0.4)	18.8	(0.5)	68.3	(0.7)	9.0	(0.4)	4.5	(0.4)	23.8	(0.6)	63.3	(0.7)	8.5	(0
New Zealand	2.7	(0.3)	10.8	(0.5)	64.1	(0.9)	22.4	(0.8)	2.7	(0.3)	13.5	(0.7)	61.0	(1.0)	22.8	(0
Norway	4.1	(0.3)	12.1	(0.5)	65.4	(0.7)	18.4	(0.5)	4.7	(0.3)	14.8	(0.5)	65.0	(0.7)	15.5	(0
Poland	4.7	(0.3)	15.7	(0.5)	66.7	(0.7)	12.9	(0.5)	5.1	(0.4)	11.9	(0.5)	65.4	(0.9)	17.7	(0
Portugal	1.9	(0.2)	8.8	(0.5)	61.9	(0.7)	27.5	(0.8)	1.9	(0.2)	8.2	(0.5)	60.6	(0.8)	29.3	(0
Slovak Republic	7.2	(0.4)	17.6	(0.5)	64.6	(0.8)	10.6	(0.4)	7.6	(0.4)	19.9	(0.6)	61.5	(0.8)	11.0	(0
Slovenia	4.0	(0.3)	14.8	(0.6)	66.3	(0.7)	15.0	(0.6)	4.6	(0.3)	17.1	(0.6)	62.3	(0.9)	16.0	(0
Spain	4.6	(0.3)	14.4	(0.5)	61.3	(0.7)	19.8	(0.6)	4.7	(0.3)	14.1	(0.5)	58.5	(0.7)	22.6	(0)
Sweden	4.0	(0.3)	10.4	(0.5)	62.3	(0.8)	23.3	(0.8)	4.2	(0.3)	12.0	(0.6)	60.3	(1.0)	23.5	(0
Switzerland Turkey	5.6 9.2	(0.4)	23.7 18.9	(0.8)	52.7 51.8	(0.7)	18.0	(0.7)	5.9 9.4	(0.4)	23.4 19.2	(0.8)	48.8	(0.9)	21.9	(0.
United Kingdom	3.1	(0.4)	9.8	(0.4)	64.6	(0.6)	22.5	(0.7)	3.0	(0.2)	10.2	(0.4)	65.8	(0.7)	21.0	(0.
United States	3.9	(0.3)	10.0	(0.4)	62.0	(0.8)	24.1	(0.8)	4.1	(0.3)	9.1	(0.4)	61.3	(0.9)	25.5	(0.
OECD average	4.8	(0.1)	15.6	(0.1)	61.1	(0.1)	18.5	(0.1)	5.1	(0.1)	16.4	(0.1)	59.8	(0.1)	18.7	(0.
OLCD average	1 4.0	(0.1)	15.0	(0.1)	01.1	(0.1)	10.5	(0.1)	J.1	(0.1)	10.4	(0.1)	33.0	(0.1)	10.7	(0.
Albania	6.9	(0.5)	17.7	(0.8)	46.9	(0.8)	28.5	(0.8)	3.0	(0.3)	8.4	(0.5)	46.7	(0.8)	41.9	(0.
Algeria	12.5	(0.6)	23.6	(0.7)	47.5	(0.8)	16.4	(0.5)	12.2	(0.6)	23.0	(0.6)	47.4	(0.8)	17.5	(0
Brazil	3.5	(0.3)	14.3	(0.4)	65.1	(0.6)	17.1	(0.5)	3.7	(0.3)	17.4	(0.5)	62.3	(0.6)	16.6	(0
B-S-J-G (China)	2.8 6.4	(0.2)	15.0 16.2	(0.5)	70.0 63.1	(0.6)	12.3 14.3	(0.6)	2.9 6.6	(0.2)	14.8 16.8	(0.5)	70.6 62.4	(0.6)	11.6 14.1	(0)
Bulgaria CABA (Argentina)	6.0	(0.4)	14.3	(0.6)	58.1	(0.8)	21.6	(0.6)	6.4	(0.4)	18.4	(0.7)	53.1	(1.5)	22.1	(0
Colombia	5.8	(0.3)	19.6	(0.5)	59.7	(0.7)	14.9	(0.4)	6.3	(0.3)	21.8	(0.6)	56.0	(0.7)	15.8	(0
Costa Rica	6.3	(0.4)	15.7	(0.5)	61.0	(0.7)	17.0	(0.5)	6.7	(0.4)	16.6	(0.5)	58.2	(0.7)	18.5	(0
Croatia	4.0	(0.3)	12.6	(0.5)	68.2	(0.8)	15.2	(0.6)	4.0	(0.3)	13.3	(0.5)	66.4	(0.7)	16.3	(0
Cyprus*	6.3	(0.4)	18.2	(0.6)	58.9	(0.8)	16.6	(0.6)	6.8	(0.3)	19.3	(0.5)	54.9	(0.7)	19.1	(0
Dominican Republic	9.8	(0.7)	16.2	(0.7)	51.9	(1.1)	22.1	(0.9)	10.4	(0.7)	18.6	(0.7)	48.5	(1.0)	22.5	(0
FYROM	5.2	(0.4)	19.6	(0.6)	61.9	(0.7)	13.4	(0.6)	5.8	(0.3)	17.7	(0.6)	63.3	(0.7)	13.2	(0
Georgia	3.6	(0.3)	14.3	(0.6)	61.9	(0.8)	20.2	(0.6)	4.1	(0.3)	17.7	(0.6)	60.7	(0.9)	17.5	(0
Hong Kong (China)	3.1	(0.3)	8.6	(0.5)	69.3	(0.8)	19.0	(0.6)	3.3	(0.3)	10.4	(0.5)	68.8 52.1	(0.8)	17.4	(0
Indonesia Jordan	4.0 9.7	(0.3)	26.6 18.5	(0.6)	60.4 51.3	(0.8)	9.0	(0.4)	5.1	(0.3)	36.7 19.0	(0.8)	52.1	(0.8)	6.1 19.8	(0)
Kosovo	7.1	(0.4)	18.6	(0.7)	54.9	(0.8)	19.4	(0.8)	6.8	(0.4)	16.4	(0.7)	55.7	(0.9)	21.1	(0
Lebanon	9.0	(0.7)	22.8	(1.0)	52.9	(1.2)	15.3	(0.8)	9.4	(0.6)	23.2	(1.1)	50.6	(1.1)	16.7	(0
Lithuania	7.0	(0.4)	15.5	(0.6)	52.2	(0.7)	25.3	(0.6)	7.6	(0.4)	15.8	(0.6)	47.9	(0.7)	28.8	(0
Macao (China)	2.3	(0.2)	11.8	(0.6)	71.7	(0.7)	14.3	(0.5)	2.4	(0.3)	12.4	(0.5)	70.7	(0.8)	14.6	(0
Malta	5.1	(0.4)	19.3	(0.7)	58.4	(0.8)	17.3	(0.7)	5.3	(0.4)	17.4	(0.7)	59.2	(0.8)	18.1	(0
Moldova	3.7	(0.3)	15.8	(0.5)	67.0	(0.7)	13.5	(0.5)	4.4	(0.3)	21.4	(0.7)	61.8	(0.8)	12.4	(0
Montenegro	6.9	(0.4)	18.4	(0.7)	61.7	(0.7)	12.9	(0.5)	7.4	(0.4)	17.3	(0.6)	60.9	(0.7)	14.5	(0
Peru Qatar	5.1	(0.3)	18.6 17.0	(0.5)	62.5	(0.6)	13.8 16.6	(0.4)	5.4 6.6	(0.3)	19.5 17.4	(0.6)	61.2 58.7	(0.7)	13.8	(0
Qatar Romania	7.6	(0.2)	25.7	(0.8)	56.9	(1.1)	9.8	(0.4)	9.3	(0.2)	27.9	(0.4)	53.5	(1.0)	9.4	(0
Russia	4.9	(0.4)	14.6	(0.6)	67.9	(0.8)	12.6	(0.5)	5.3	(0.4)	17.0	(0.6)	65.3	(0.7)	12.5	(0
Singapore	2.3	(0.2)	10.2	(0.4)	67.9	(0.7)	19.7	(0.6)	2.3	(0.2)	11.1	(0.4)	67.8	(0.6)	18.8	(0
Chinese Taipei	2.0	(0.2)	4.5	(0.3)	66.8	(0.7)	26.7	(0.8)	2.1	(0.2)	4.3	(0.3)	64.9	(0.7)	28.8	(0
Thailand .	1.6	(0.2)	11.4	(0.5)	74.3	(0.7)	12.7	(0.5)	1.8	(0.2)	10.8	(0.4)	74.0	(0.7)	13.4	(0
Trinidad and Tobago	6.6	(0.4)	18.6	(0.7)	58.1	(0.8)	16.8	(0.7)	6.1	(0.4)	18.9	(0.6)	57.2	(0.8)	17.8	(0
Tunisia	7.8	(0.5)	22.8	(0.7)	54.7	(0.8)	14.8	(0.5)	8.2	(0.5)	22.9	(0.8)	52.1	(0.9)	16.8	(0
United Arab Emirates	5.1	(0.3)	14.5	(0.5)	59.4	(0.6)	21.0	(0.5)	4.9	(0.3)	15.4	(0.4)	57.9	(0.6)	21.8	(0
Uruguay Viot Norm	7.2	(0.4)	15.5	(0.5)	58.9	(0.7)	18.4	(0.6)	7.0	(0.4)	15.5	(0.5)	57.2	(0.8)	20.3	(0
Viet Nam	4.5	(0.4)	17.6	(0.7)	65.8	(0.8)	12.2	(0.6)	3.7	(0.3)	18.4	(0.7)	67.4	(0.8)	10.5	(0
Argentina**	7.9	(0.4)	17.9	(0.6)	57.2	(0.8)	16.9	(0.6)	8.9	(0.4)	22.1	(0.7)	52.0	(0.8)	17.1	(0
Kazakhstan**	4.8	(0.4)	15.6	(0.5)	61.7	(0.9)	17.9	(0.8)	5.3	(0.4)	20.9	(0.7)	58.0	(0.8)	15.8	(0
Malaysia**	1.9	(0.2)	12.8	(0.4)	68.6	(0.8)	16.7	(0.7)	2.4	(0.3)	17.5	(0.5)	66.9	(0.8)	13.2	((

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** http://dx.doi.org/10.1787/888933436477



[Part 1/1]

Table II.2.2 Students expecting to work in science-related occupations¹ at age 30

Results based on students' self-reports

		Percentage of st		
	or with vague career expectations	her occupations at age 30 or whose answer is missing or invalid oes not know)		ence-related occupations ge 30
	%	S.E.	%	S.E.
Australia	70.8	(0.6)	29.2	(0.6)
Austria	77.7	(1.0)	22.3	(1.0)
Belgium	75.5	(1.0)	24.5	(1.0)
Canada	66.1	(0.6)	33.9	(0.6)
Chile	62.1	(0.8)	37.9	(0.8)
Czech Republic	83.1	(0.7)	16.9	(0.7)
Denmark	85.2	(0.6)	14.8	(0.6)
Estonia	75.3	(0.6)	24.7	(0.6)
Finland	83.0	(0.6)	17.0	(0.6)
France	78.8	(0.6)	21.2	(0.6)
Germany	84.7	(0.5)	15.3	(0.5)
Greece	74.7	(0.8)	25.3	(0.8)
Hungary	81.7	(0.9)	18.3	(0.9)
Iceland	76.2	(0.8)	23.8	(0.8)
Ireland	72.7	(0.7)	27.3	(0.7)
Israel	72.7	(0.7)	27.8	(0.7)
Italy	72.2	(1.0)	22.6	(1.0)
	82.0	(0.7)	18.0	(0.7)
Japan				
Korea	80.7	(0.7)	19.3	(0.7)
Latvia	78.7	(0.6)	21.3	(0.6)
Luxembourg	78.9	(0.6)	21.1	(0.6)
Mexico	59.3	(0.8)	40.7	(0.8)
Netherlands	83.7	(0.6)	16.3	(0.6)
New Zealand	75.2	(0.8)	24.8	(0.8)
Norway	71.4	(0.8)	28.6	(0.8)
Poland	79.0	(0.8)	21.0	(0.8)
Portugal	72.5	(0.8)	27.5	(0.8)
Slovak Republic	81.2	(0.8)	18.8	(0.8)
Slovenia	69.2	(0.7)	30.8	(0.7)
Spain	71.4	(0.7)	28.6	(0.7)
Sweden	79.8	(0.6)	20.2	(0.6)
Switzerland	80.5	(0.7)	19.5	(0.7)
Turkey	70.3	(1.3)	29.7	(1.3)
United Kingdom	70.9	(0.7)	29.1	(0.7)
United States	62.0	(0.8)	38.0	(0.8)
OECD average	75.5	(0.1)	24.5	(0.1)
OLCD average	75.5	(0.1)	24.3	(0.1)
Albania	75.2	(0.8)	24.8	(0.8)
Algeria	74.0	(0.8)	26.0	(0.8)
Brazil	61.2	(0.7)	38.8	(0.7)
B-S-J-G (China)	83.2	(0.7)	16.8	(0.7)
Bulgaria	72.5	(1.4)	27.5	(1.4)
CABA (Argentina)	72.2	(1.5)	27.8	(1.5)
Colombia	60.3	(0.8)	39.7	(0.8)
Costa Rica	56.0	(0.9)	44.0	(0.9)
Croatia	75.8	(1.1)	24.2	(1.1)
Cyprus*	70.1	(0.7)	29.9	(0.7)
Dominican Republic	54.3	(1.0)	45.7	(1.0)
FYROM	75.8	(0.6)	24.2	(0.6)
Georgia	83.0	(0.6)	17.0	(0.6)
Hong Kong (China)	76.4	(0.7)	23.6	(0.7)
Indonesia	84.7	(0.7)	15.3	(0.7)
Jordan	56.3	(1.2)	43.7	(1.2)
Kosovo	73.6	(0.7)	26.4	(0.7)
Lebanon	60.3	(1.0)	39.7	(1.0)
Lithuania	76.1	(0.7)	23.9	(0.7)
Macao (China)	79.2	(0.6)	20.8	(0.6)
Malta	74.6	(0.7)	25.4	(0.7)
Moldova	78.0	(0.8)	22.0	(0.8)
Montenegro	78.8	(0.5)	21.2	(0.5)
Peru	61.3	(0.8)	38.7	(0.8)
Qatar	62.0	(0.5)	38.0	(0.5)
Romania	76.8	(1.0)	23.2	(1.0)
Russia	76.5	(0.6)	23.5	(0.6)
Singapore	72.0	(0.6)	28.0	(0.6)
Chinese Taipei	79.1	(0.8)	20.9	(0.8)
Thailand	80.3	(0.7)	19.7	(0.7)
Trinidad and Tobago	72.2	(0.7)	27.8	(0.6)
Tunisia	65.6	(0.8)	34.4	(0.9)
United Arab Emirates	58.7	(0.5)	41.3	(0.5)
Uruguay	71.9	(0.7)	28.1	(0.7)
Viet Nam	80.4	(0.8)	19.6	(0.8)
Argentina**	76.4	(0.9)	23.6	(0.9)
Kazakhstan**	71.1	(1.0)	28.9	(1.0)
	71.0	(0.9)	29.0	(0.9)

^{1.} See Annex A1 for the list of science-related occupations.
* See note at the beginning of this Annex.
** Coverage is too small to ensure comparability (see Annex A4).
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[Part 1/3]

Table II.2.3 Requirement to attend at least one science course per week, by student and school characteristics

Results based on students' reports

					Percent	age of stud	ents requi	red to atte	nd at least	one scienc	e course p	er week			
			All st	udents					By sch	ool socio-e	economic p	profile1			
		Ave	rage	Varia	bility	Bottom	quarter	Second	quarter	Third o	juarter	Top a	uarter	Top - b	
		%	S.E.	S.D.	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	% dif.	S.E
1	Australia	89.9	(0.4)	30.1	(0.5)	84.7	(1.5)	89.4	(1.3)	92.1	(1.2)	93.3	(0.9)	8.6	(1.9
	Austria	90.9	(0.7)	28.8	(1.0)	79.2	(2.6)	85.9	(2.6)	98.2	(1.0)	98.8	(0.6)	19.6	(2.6
	Belgium Canada	86.5	(0.7)	34.2 34.4	(0.7)	76.2	(1.9)	77.0 87.5	(2.2)	92.6 84.5	(1.5)	98.3	(0.3)	7.3	(2.0
	Canada Chile	86.3 98.9	(0.5)	10.6	(0.5)	82.9 97.7	(1.2) (0.5)	98.5	(1.1) (0.4)	99.2	(1.2)	90.2 99.9	(1.2)	2.2	(0.5
	Czech Republic	99.6	(0.1)	6.7	(0.9)	98.8	(0.4)	99.6	(0.3)	99.8	(0.1)	99.9	(0.1)	1.2	(0.4
	Denmark	99.0	(0.2)	10.1	(1.0)	99.1	(0.3)	98.9	(0.6)	98.7	(0.5)	99.2	(0.3)	0.1	(0.5
	Estonia	99.6	(0.1)	6.6	(0.8)	99.6	(0.1)	99.2	(0.3)	99.8	(0.1)	99.6	(0.2)	-0.1	(0.3
	Finland	96.1	(0.6)	19.3	(1.4)	94.9	(1.8)	97.1	(1.0)	96.3	(0.9)	96.2	(1.2)	1.3	(2.1
ī	France	95.5	(0.5)	20.7	(1.1)	87.3	(2.2)	96.4	(0.9)	98.1	(0.8)	99.4	(0.3)	12.0	(2.3
(Germany	95.2	(0.5)	21.3	(1.0)	89.2	(2.3)	92.5	(2.0)	98.4	(0.7)	99.4	(0.2)	10.2	(2.3
-	Greece	95.4	(0.4)	20.9	(0.9)	90.6	(1.5)	94.3	(1.0)	97.7	(0.6)	98.8	(0.4)	8.2	(1.€
1	Hungary	86.0	(1.4)	34.7	(1.4)	82.0	(2.7)	94.0	(1.8)	88.0	(3.2)	79.9	(4.0)	-2.1	(4.9
	Iceland	96.9	(0.2)	17.5	(0.6)	99.2	(0.3)	98.9	(0.4)	99.1	(0.4)	90.2	(0.7)	-9.0	3.0)
1	Ireland	92.2	(0.9)	26.9	(1.4)	87.7	(3.1)	94.9	(0.9)	91.9	(2.0)	94.1	(1.6)	6.5	(3.4
_1	Israel	92.8	(1.2)	25.9	(1.9)	96.0	(1.5)	90.1	(2.3)	88.8	(4.6)	96.2	(1.0)	0.2	(1.8
1	Italy	97.1	(0.3)	16.9	(0.7)	93.4	(0.8)	97.3	(0.4)	98.2	(0.8)	99.3	(0.7)	5.9	(1.2
	Japan	97.4	(1.1)	16.0	(3.2)	94.2	(3.4)	95.8	(2.8)	99.5	(0.2)	99.8	(0.1)	5.7	(3.4
	Korea	97.5	(0.5)	15.8	(1.5)	91.9	(2.0)	99.0	(0.3)	99.5	(0.2)	99.3	(0.2)	7.4	(2.0
	Latvia	99.3	(0.2)	8.2	(1.4)	99.5	(0.3)	99.6	(0.3)	99.5	(0.2)	98.7	(0.8)	-0.8	(0.9
	Luxembourg	93.2	(0.2)	25.1	(0.4)	89.7	(0.6)	91.7	(0.7)	92.6	(0.6)	98.7	(0.2)	9.0	(0.
	Mexico	96.2	(1.0)	19.0	(2.3)	97.9	(0.5)	96.4	(1.8)	95.4	(2.2)	95.4	(2.7)	-2.6	(2.
	Netherlands	84.5	(0.9)	36.2	(0.8)	85.8	(2.4)	84.5	(2.1)	83.6	(1.4)	84.1	(1.6)	-1.7	(3.
	New Zealand	94.2	(0.7)	23.4	(1.2)	88.8	(2.0)	96.1	(1.0)	95.7	(1.0)	96.0	(0.8)	7.2	(2.
	Norway	99.5	(0.1)	6.7	(0.7)	99.4	(0.3)	99.7	(0.2)	99.5	(0.3)	99.6	(0.2)	0.2	(0.
	Poland	99.6	(0.1)	6.6	(8.0)	99.5	(0.2)	99.7	(0.2)	99.6	(0.2)	99.5	(0.3)	0.0	(0.
	Portugal	70.0	(0.9)	45.8	(0.4)	76.9	(2.4)	72.4	(2.6)	67.7	(2.6)	63.0	(2.2)	-13.9	(2.
	Slovak Republic	88.5	(1.0)	31.9	(1.2)	86.3	(2.5)	80.2	(3.0)	90.8	(2.2)	96.4	(1.4)	10.1	(2.
	Slovenia	98.7	(0.1)	11.5	(0.6)	97.1	(0.3)	98.2	(0.4)	99.3	(0.2)	100.0	C	2.9	(0.
	Spain	83.7	(0.6)	36.9	(0.6)	84.4	(1.5)	79.8	(1.8)	85.0	(1.8)	85.5	(1.3)	1.1	(2.
	Sweden	99.1	(0.2)	9.6	(0.9)	99.1	(0.3)	99.4	(0.3)	99.7	(0.4)	98.2	(0.6)	-0.9	(0.
	Switzerland	91.5	(0.9)	27.8	(1.4)	88.2	(3.0)	91.4	(2.8)	88.8	(1.9)	97.6	(0.7)	9.4	(3.
	Turkey	92.9	(0.5)	25.7	(0.9)	91.3	(0.9)	90.1	(1.7)	93.7	(1.4)	96.4	(0.7)	5.1	(1.
	United Kingdom	98.4	(0.1)	12.5	(0.5)	97.9	(0.5)	98.0	(0.5)	98.4	(0.3)	99.3	(0.2)	1.4	(0.
ı	United States	93.6	(0.8)	24.6	(1.4)	92.6	(2.3)	91.2	(2.6)	93.7	(2.1)	96.7	(1.1)	4.1	(2.
(OECD average	93.6	(0.1)	21.4	(0.2)	91.4	(0.3)	93.0	(0.3)	94.4	(0.3)	95.3	(0.2)	3.9	(0.4
_	Albania	97.9	(0.2)	14.2	(0.8)	97.6	(0.5)	97.8	(0.5)	98.1	(0.6)	98.2	(0.5)	0.6	(0.7
	Algeria	97.6	(0.3)	15.3	(0.9)	97.5	(0.7)	98.2	(0.4)	97.7	(0.4)	96.9	(0.9)	-0.6	(1.
	Brazil	91.9	(0.4)	27.2	(0.7)	91.8	(0.7)	88.9	(1.1)	90.6	(0.9)	95.9	(0.6)	4.1	(0.
	B-S-J-G (China)	94.1	(0.9)	23.6	(1.7)	98.3	(0.6)	91.1	(2.9)	92.2	(2.7)	94.8	(1.7)	-3.5	(1.
I	Bulgaria	99.5	(0.1)	7.0	(0.7)	99.4	(0.3)	99.5	(0.2)	99.4	(0.3)	99.7	(0.2)	0.2	(0.
(CABA (Argentina)	96.9	(0.7)	17.4	(1.8)	95.4	(1.1)	93.1	(2.0)	99.2	(1.4)	99.7	(0.5)	4.3	(1.
(Colombia	93.6	(0.4)	24.5	(0.8)	92.7	(1.3)	92.7	(0.9)	93.2	(1.0)	95.6	(0.7)	2.8	(1.
(Costa Rica	96.7	(0.3)	17.8	(0.8)	96.0	(0.7)	96.1	(0.7)	95.5	(0.7)	99.4	(0.3)	3.4	(0.
(Croatia	84.3	(1.0)	36.3	(1.0)	70.4	(3.2)	82.0	(3.1)	86.3	(2.6)	97.9	(1.0)	27.5	(3.
(Cyprus*	96.1	(0.3)	19.3	(0.6)	96.2	(0.5)	97.8	(0.4)	97.0	(0.5)	93.5	(0.6)	-2.7	(0.
I	Dominican Republic	96.7	(0.4)	18.0	(1.0)	96.7	(0.9)	95.5	(0.9)	97.2	(0.7)	97.1	(0.8)	0.4	(1.
I	FYROM	75.1	(0.6)	43.2	(0.4)	72.4	(1.3)	68.3	(1.4)	80.1	(1.2)	78.3	(1.2)	5.9	(1.
	Georgia	98.5	(0.3)	12.0	(1.2)	97.2	(0.8)	98.7	(0.6)	98.9	(0.4)	99.3	(0.3)	2.1	(0.
j	Hong Kong (China)	76.2	(8.0)	42.6	(0.5)	75.8	(1.6)	74.9	(1.7)	73.9	(1.9)	80.0	(1.5)	4.2	(2.
	Indonesia	95.8	(0.9)	20.0	(2.0)	99.3	(0.3)	95.6	(2.5)	94.6	(2.3)	93.8	(1.5)	-5.5	(1.
	Jordan	97.8	(0.3)	14.8	(1.0)	97.3	(1.0)	97.7	(0.7)	97.8	(0.6)	98.2	(0.4)	0.8	(1.
	Kosovo	91.1	(0.5)	28.5	(0.7)	85.5	(1.7)	92.9	(1.5)	91.8	(0.8)	93.9	(1.3)	8.4	(2.
	Lebanon	99.2	(0.2)	9.1	(1.0)	99.6	(0.3)	99.3	(0.4)	98.3	(0.6)	99.4	(0.2)	-0.1	(0.
	Lithuania	100.0	С	0.0	С	100.0	С	100.0	С	100.0	С	100.0	С	0.0	
	Macao (China)	81.4	(0.5)	38.9	(0.4)	81.0	(1.1)	85.8	(1.0)	82.9	(1.0)	76.0	(0.9)	-5.0	(1.
	Malta	94.2	(0.4)	23.4	(0.7)	87.7	(1.1)	95.1	(0.7)	96.2	(0.6)	97.5	(0.5)	9.8	(1.
	Moldova	94.3	(0.5)	23.2	(0.9)	94.3	(1.4)	94.4	(1.0)	94.5	(1.0)	93.9	(1.1)	-0.4	(1.
	Montenegro	94.1	(0.2)	23.5	(0.4)	90.1	(0.6)	95.0	(0.5)	93.4	(0.5)	97.7	(0.3)	7.6	(0.
	Peru	98.7	(0.2)	11.5	(0.7)	98.9	(0.3)	98.8	(0.3)	98.3	(0.4)	98.7	(0.3)	-0.2	(0.
	Qatar	94.6	(0.2)	22.7	(0.5)	91.9	(0.6)	95.5	(0.4)	94.4	(0.4)	96.3	(0.4)	4.4	(0.
	Romania	98.4	(0.3)	12.5	(1.0)	97.7	(0.8)	97.6	(0.7)	99.2	(0.5)	99.1	(0.4)	1.4	(0.
	Russia	99.5	(0.2)	6.7	(1.2)	99.8	(0.1)	99.3	(0.4)	99.6	(0.2)	99.5	(0.3)	-0.4	(0.
	Singapore	98.7	(0.1)	11.3	(0.5)	97.4	(0.3)	98.9	(0.3)	98.7	(0.4)	99.8	(0.1)	2.5	(0.
	Chinese Taipei	92.5	(1.0)	26.4	(1.5)	85.9	(3.1)	92.5	(3.1)	93.6	(2.6)	97.8	(2.0)	11.9	(4.
	Thailand	93.1	(0.7)	25.4	(1.3)	93.5	(2.1)	88.5	(3.0)	90.6	(2.7)	99.7	(0.2)	6.2	(2.
	Trinidad and Tobago	91.9	(0.4)	27.3	(0.6)	90.4	(1.0)	93.4	(0.9)	90.4	(0.9)	93.2	(0.7)	2.7	(1.
	Tunisia	96.6	(0.4)	18.2	(1.0)	96.3	(1.1)	96.7	(1.1)	96.8	(0.8)	96.5	(0.6)	0.2	(1.
	United Arab Emirates	93.0	(0.5)	25.5	(0.8)	94.2	(0.7)	91.1	(1.3)	91.1	(1.0)	95.5	(0.8)	1.4	(1.
	Uruguay	95.4	(0.4)	21.1	(0.8)	90.8	(1.3)	93.7	(1.2)	97.5	(0.7)	98.7	(0.3)	7.9	(1.
١	Viet Nam	100.0	С	0.0	С	100.0	С	100.0	С	100.0	С	100.0	С	0.0	
-	Argentina**	94.6	(0.7)	22.6	(1.4)	92.0	(2.0)	93.1	(1.8)	95.4	(1.3)	97.5	(0.7)	5.5	(2.
	Kazakhstan**	99.7	(0.1)	5.1	(0.9)	99.6	(0.2)	99.8	(0.4)	99.7	(0.4)	99.8	(0.1)	0.2	(0.

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 2/3]

Table 11.2.3 Requirement to attend at least one science course per week, by student and school characteristics

Results based on students' reports

							- 0	of stud	ents re	quired	to atte	nd at le	east or	ne scienc	e cour	se per w	/eek				
				В	y schoo	l locatio	n				I	By type	of sch	ool			В	y educa	tion lev	el	
		Rural or vi (fewe 3 000 p	llage r than	(3 to 10)	000 0 000	Ci (over 10 peo	000 000		ty – area	Pul	olic	Priv	⁄ate	Priva pub		secoi educ	wer ndary ation ED 2)	seco educ	per ndary ation ED 3)		ED 3 - ED 2
		%	S.E.	%	S.E.	%	S.E.	% dif.		%	S.E.	%	S.E.	% dif.	S.E.	%	S.E.	%	S.E.	% dif.	
OECD	Australia	94.1	(1.8)	90.1	(1.0)	89.4	(0.5)	-4.7	(1.9)	87.4	(0.6)	93.3	(0.6)	6.0	(0.9)	95.4	(0.4)	56.9	(1.7)	-38.5	(1.8)
Œ	Austria Belgium	89.1 95.3	(3.0)	91.8 85.0	(1.1)	89.7 89.1	(1.9)	0.6 -6.2	(3.7)	90.0 w	(0.9) W	96.4 W	(2.2) W	6.4 w	(2.5) w	97.5 94.7	(2.8)	90.7 85.9	(0.7)	-6.7 -8.9	(2.9)
	Canada	81.4	(3.0)	85.6	(1.0)	87.3	(0.8)	5.9	(3.0)		(0.6)	98.4	(0.8)	13.6	(0.9)	92.8	(0.8)	85.6	(0.6)	-7.2	(1.1)
	Chile	97.5	(2.7)	98.4	(0.4)	99.1	(0.2)	1.5	(2.8)		(0.4)	99.1	(0.2)	0.8	(0.4)	98.3	(1.1)	98.9	(0.2)	0.5	(1.1)
	Czech Republic	100.0	C	99.4	(0.2)	99.9	(0.1)	-0.1	(0.1)	99.6	(0.1)	99.7	(0.3)	0.1	(0.4)	99.9	(0.1)	99.2	(0.2)	-0.7	(0.3)
	Denmark	99.6	(0.3)	98.9	(0.3)	98.4	(0.8)	-1.2	(0.9)	98.9	(0.2)	99.5	(0.1)	0.6	(0.3)	99.1	(0.2)	72.7	(18.4)	-26.5	(18.4)
	Estonia	99.6	(0.3)	99.7	(0.1)	99.4	(0.2)	-0.2	(0.4)	99.6		99.0	(0.9)	-0.6	(1.0)	99.6	(0.1)	93.3	(3.3)	-6.3	(3.3)
	Finland France	93.8	(2.4)	96.5 94.8	(0.6)	96.5 96.6	(0.7)	2.7 -2.1	(2.5)	96.1	(0.6)	97.0 97.7	(1.5)	0.9 2.3	(1.6)	96.1 96.0	(0.6)	95.4	(0.6)	-0.6	(0.9)
	Germany	97.9	(1.3)	94.3	(0.9)	95.9	(0.9)	-2.0	(1.9)		(0.7)	94.3	(1.2)	-0.7	(1.5)	95.5	(0.5)	86.2	(5.3)	-9.3	(5.3)
	Greece	94.9	(1.8)	94.5	(0.7)	97.3	(0.5)	2.4	(1.8)		(0.4)	100.0	C	4.8	(0.4)	91.7	(2.9)	95.6	(0.4)	3.9	(2.9)
	Hungary	92.4	(6.1)	86.6	(2.1)	83.7	(2.3)	-8.7	(6.3)	85.7	(1.6)	83.8	(4.0)	-1.9	(4.2)	99.6	(0.4)	84.5	(1.6)	-15.1	(1.6)
	Iceland	98.7	(0.4)	94.7	(0.4)	99.4	(0.3)	0.6	(0.5)	96.7	(0.2)	m	m	m	m	96.9	(0.2)	m	m	m	m
	Ireland	96.2	(0.7)	93.2	(0.9)	87.1	(2.8)	-9.1	(2.9)	92.7		91.7	(1.3)	-1.0	(1.8)	95.3	(0.9)	86.9	(1.5)	-8.4	(1.5)
	Israel	86.6	(6.1)	95.0	(0.7)	92.3	(2.2)	5.8	(6.8)	m	(O, 2)	m	(1.7)	m	(1.0)	97.4	(0.7)	92.2	(1.3)	-5.2	(1.5)
	Italy Japan	98.1 m	(0.9) m	96.8 97.1	(0.5)	97.8 97.5	(0.4)	-0.3 m	(1.0) m	97.0 97.4	(0.3) (1.4)	97.0 97.4	(1.7) (1.4)	0.0	(1.8)	99.3 m	(0.7) m	97.1 97.4	(0.3)	-2.3 m	(0.8) m
	Korea	m	m	99.0	(0.6)	97.3	(0.6)	m	m	96.5	(0.7)	99.3	(0.3)	2.9	(0.8)	99.4	(0.3)	97.4	(0.6)	-2.1	(0.7)
	Latvia	99.7	(0.2)	99.0	(0.5)	99.5	(0.2)	-0.2	(0.3)	99.3	(0.2)	100.0	(0.5)	0.7	(0.2)	99.6	(0.1)	91.1	(5.1)	-8.6	(5.1)
	Luxembourg	m	m	92.3	(0.3)	94.6	(0.3)	m	m	93.2	(0.3)	93.6		0.4	(0.8)	98.0	(0.2)	87.3	(0.4)	-10.7	(0.5)
	Mexico	97.6	(0.6)	94.6	(2.3)	96.9	(1.2)	-0.7	(1.3)		(1.1)	98.9	(0.5)	3.1	(1.2)	98.1	(0.4)	95.1	(1.5)	-3.0	(1.5)
	Netherlands	m	m	85.6	(1.0)	87.0	(2.1)	m	m	87.8		84.6	(1.2)	-3.2	(1.9)	89.3	(0.8)	73.6	(1.7)	-15.8	(1.8)
	New Zealand Norway	81.0 99.0	(6.5)	94.4	(0.9)	94.7 99.6	(1.0)	13.6 0.6	(6.6)	94.3		92.7 97.2	(3.7)	-1.6 -2.4	(3.8)	99.6 99.5	(0.4)	93.9 m	(0.7)	-5.7 m	(0.8) m
	Poland	99.6	(0.4)	99.7	(0.1)	99.8	(0.2)	-0.4	(0.3)	99.6		98.9	(1.0)	-0.7	(1.1)	99.5	(0.1)	m	m m	m	m
	Portugal	89.7	(2.5)	71.3	(1.1)	63.1	(2.1)	-26.6	(3.2)	70.8		59.3		-11.5	(5.7)	98.4	(0.4)	55.2	(1.2)	-43.2	(1.2)
	Slovak Republic	98.1	(0.6)	85.8	(1.4)	91.5	(3.3)	-6.6	(3.2)		(1.1)		(4.5)	-8.0	(4.9)	98.6	(0.3)	79.9	(1.8)	-18.7	(1.9)
	Slovenia	98.6	(0.5)	98.7	(0.1)	98.3	(0.3)	-0.3	(0.6)	98.6	(0.1)	100.0	С	1.4	(0.1)	99.5	(0.8)	98.6	(0.1)	-0.8	(0.8)
	Spain	86.6	(4.6)	82.5	(0.8)	85.5	(1.0)	-1.1	(4.6)		(0.7)	85.9	(1.1)	3.2	(1.3)	83.7	(0.6)	m	m	m	m
	Sweden	98.9	(0.5)	99.4	(0.2)	98.6	(0.4)	-0.4	(0.7)	99.2		98.6	(0.5)	-0.6	(0.5)	99.3	(0.1)	88.1	(8.8)	-11.2	(8.8)
	Switzerland	95.5	(1.8)	92.1	(1.4)	87.6	(1.8)	-7.9	(2.5)		(1.0)	74.6	(3.7)	-18.0	(3.8)	96.0	(0.7)	77.1	(3.1)	-18.9	(3.1)
	Turkey United Kingdom	91.6	(5.1)	93.1 98.7	(0.9)	93.0 98.3	(0.7)	1.4 0.6	(5.1)		(0.6)	94.2 98.8	(2.6)	1.3 0.3	(2.7)	98.6 96.6	(1.9)	92.7 98.4	(0.5)	-5.9	(1.9)
	United States	92.2	(2.7)	92.7	(1.1)	95.0	(1.2)	2.8	(2.9)	93.2		97.4		4.2	(1.8)	91.5	(1.4)	93.8	(0.8)	2.2	(1.3)
	OECD average	94.8	(0.5)	93.5	(0.2)	93.6	(0.2)	-1.3	(0.5)	93.7		93.8	(0.4)	0.2	(0.4)	96.8	(0.2)	88.0	(0.8)	-9.4	(0.8)
_																					
artners	Albania	98.0	(0.5)	98.0	(0.3)	97.8	(0.5)	-0.1	(0.6)			97.8	(8.0)	-0.2	(0.9)	97.8	(0.4)	98.0	(0.3)	0.2	(0.5)
£	Algeria Brazil	98.2 94.4	(0.5)	97.6 90.7	(0.4)	97.0 93.2	(0.4)	-1.1 -1.2	(0.7)	97.6	(0.3)	98.1	m (0.4)	7.3	(0.6)	98.0 97.9	(0.2)	96.2 90.5	(1.1)	-1.8 -7.4	(1.2)
Ра	B-S-J-G (China)	98.8	(0.6)	96.2	(1.0)	89.8	(2.4)	-9.0	(2.5)	93.6		97.8	(1.1)	4.2	(1.7)	98.6	(0.3)	86.4	(2.3)	-12.2	(2.3)
	Bulgaria	100.0	(0.0)	99.4	(0.2)	99.6	(0.1)	-0.4	(0.1)		(0.1)	m	m	m	m	98.8	(1.0)	99.5	(0.1)	0.8	(1.0)
	CABA (Argentina)	m	m	m	m	97.1	(0.7)	m	m	94.9	(1.3)	98.9	(0.5)	4.0	(1.4)	96.9	(0.7)	96.5	(2.5)	-0.4	(2.6)
	Colombia	95.8	(1.2)	93.7	(0.8)	93.6	(0.7)	-2.2	(1.3)	93.6	(0.6)	95.5	(0.7)	1.9	(0.9)	94.0	(0.7)	93.3	(0.6)	-0.6	(0.9)
	Costa Rica	95.9	(0.9)	97.0	(0.3)	96.8	(0.7)	0.9	(1.2)	96.9	(0.3)	96.0	(0.8)	-0.9	(0.9)	93.9	(0.5)	99.7	(0.1)	5.8	(0.5)
	Croatia	m	(O, O)	81.0	(1.5)	89.5	(1.9)	m -2.9	(O, O)		(1.0)	100.0	(O, O)	16.0	(1.0)	m	(1.1)	84.3 96.2	(1.0)	m	(1.1)
	Cyprus* Dominican Republic	98.3 96.7	(0.8)	96.4 96.4	(0.3)	95.3 97.1	(0.5)	0.4	(0.9)	97.4 96.8		89.5 96.4	(0.9)	-7.9 -0.4	(0.9)	94.9 94.2	(1.1)	96.2	(0.3)	1.3 2.9	(1.1)
	FYROM	78.2	(3.2)	75.7	(0.8)	71.1	(1.1)	-7.1	(3.5)		(0.6)		(1.1)	22.7	(1.1)	m	(1.0) m	75.1	(0.6)	m	(1.0) m
	Georgia	98.4	(0.5)	98.3	(0.7)	98.8	(0.3)	0.5	(0.6)		(0.3)	99.2	(0.5)	0.8	(0.6)	98.4	(0.5)	98.6	(0.3)	0.1	(0.5)
	Hong Kong (China)	m	m	m	m	76.2	(0.8)	m	m	79.3	(2.3)	76.1	(0.8)	-3.2	(2.5)	97.7	(0.4)	65.8	(1.1)	-32.0	(1.3)
	Indonesia	98.1	(1.0)	94.8	(1.4)	95.1	(1.9)	-3.0	(2.2)	95.7	(1.0)	96.1	(1.6)	0.5	(1.9)	99.1	(0.3)	92.2	(1.8)	-6.9	(1.8)
	Jordan Kasawa	96.3	(1.7)	97.8	(0.3)	98.2	(0.4)	1.8	(1.8)		(0.4)	98.7	(0.3)	1.3	(0.5)	97.8	(0.3)	m no a	m	m	(1.1)
	Kosovo Lebanon	91.1	(0.5)	91.6	(0.5)	89.7 99.0	(0.5)	-1.4 -0.3	(2.2)	91.1	(0.5)	91.9	(3.4)	0.9	(3.4)	93.3 98.8	(1.0)	90.3	(0.6)	-3.0 0.5	(1.1)
	Lithuania	100.0	(U.5)	100.0	(U.2)	100.0	(U.5)	0.0	(U.3)	100.0	(U.3)	100.0	(U.2)	0.0	(U.4)	100.0	(U.4)	99.3 m	(0.2) m	m	(U.4) m
	Macao (China)	m	m	m	m	81.4	(0.5)	m	m	m	m	81.4	(0.5)	m	m	86.5	(0.8)	77.3	(0.7)	-9.3	(1.0)
	Malta	93.0	(1.2)	94.5	(0.4)	m	m	m	m	92.0		97.7	(0.4)	5.7	(0.8)	m	m	94.2	(0.4)	m	m
	Moldova	94.9	(0.5)	94.3	(1.0)	92.6	(1.4)	-2.3	(1.5)	94.5	(0.5)	m	m	m	m	94.7	(0.5)	88.7	(3.2)	-6.0	(3.1)
	Montenegro	m	m	93.9	(0.3)	94.5	(0.4)	m	m	94.1		m	m	m	m	100.0	C (O (I)	94.0	(0.2)	-6.0	(0.2)
	Peru	98.7	(0.3)	98.5	(0.2)	99.1	(0.3)	0.4	(0.5)	98.8		98.4		-0.4	(0.4)	97.8	(0.4)	98.9	(0.2)	1.1	(0.4)
	Qatar Romania	91.5 97.8	(1.2)	94.6 98.4	(0.4)	94.8 98.6	(0.3)	3.3 0.7	(1.2)	94.0		95.5 m	(0.3) m	1.5 m	(0.4) m	98.4 98.4	(0.3)	93.6 m	(0.3) m	-4.8 m	(0.4) m
	Russia	99.9	(0.1)	99.5	(0.3)	99.5	(0.3)	-0.4	(0.2)			m	m	m	m	99.6	(0.3)	99.3	(0.3)	-0.3	(0.3)
	Singapore	m	m	m	(0.5) m	98.6	(0.1)	m	(0.2) m		(0.1)	98.7	(0.4)	0.0	(0.5)	99.3	(0.7)	98.7	(0.1)	-0.6	(0.7)
	Chinese Taipei	m	m	92.8	(1.4)	92.1	(1.4)	m	m	96.5			(2.3)	-11.9	(2.5)	99.5	(0.1)	88.6	(1.5)	-11.0	(1.5)
	Thailand	90.7	(3.8)	93.8	(0.9)	95.2	(2.3)	4.5	(5.1)	93.5		90.4		-3.1	(3.5)	99.3	(0.3)	91.0	(1.0)	-8.3	(1.0)
	Trinidad and Tobago	94.9	(0.9)	92.0	(0.5)	m	m	m	m	92.7			(2.5)	-4.0	(2.5)	98.0	(0.3)	87.8	(0.7)	-10.1	(0.8)
	Tunisia	96.4	(1.6)	96.4	(0.5)	96.7	(0.6)	0.2	(1.7)	96.7		96.5		-0.2	(3.4)	95.9	(0.9)	96.9	(0.4)	1.0	(0.9)
	United Arab Emirates Uruguay	94.7 95.0	(1.3)	95.0 94.5	(0.6)	91.7 96.5	(0.7)	-3.1 1.5	(1.3)	93.7	(0.5)	92.1	(0.8)	-1.6 4.6	(1.0)	98.5 90.7	(0.5)	92.2 97.8	(0.5)	-6.4 7.1	(0.7)
	Viet Nam	100.0	(2.0) C	100.0	(U.5)	100.0	(U.7)	0.0		100.0		100.0	(U.3)	0.0	(U.5)	100.0	(0.9) C	100.0	(U.3)	0.0	(U.9) C
_	Argentina**	95.8	(2.1)	93.6	(1.0)	95.9	(0.9)	0.1	(2.3)	93.5		98.1	(0.5)	4.6	(1.0)	92.8	(1.0)	95.6	(0.6)	2.8	(0.9)
	Augentina																				
	Kazakhstan**	99.8	(0.1)	99.7	(0.1)	99.7	(0.2)	0.0	(0.2)	99.7	(0.1)	100.0	C	0.3	(0.1)	99.7	(0.1)	100.0	(0.0)	0.3	(0.1)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 3/3]

Table II.2.3 Requirement to attend at least one science course per week, by student and school characteristics

Results based on students' reports

Res	ults based on studer	nts' report	S	Do	waamtaga of	otudonto nom	rivad to atta	nd at loast o			alı		
				Pe	rcentage or	students requ	iired to atte	nd at least of	ne science c	ourse per wee		ood of expe	cting
			are require	score when sed to attend see course pe	_	when	students are	of epistemic required to e course per	attend	to work when s	in science- tudents are	related occu required to ce course per	pations attend
		Before acco students' ai socio-econo	nd schools'	students' a	ounting for and schools' omic profile	Before accestudents' associo-econo	nd schools'	students' a	ounting for nd schools' omic profile	Before acco students' an socio-econo	d schools'	After acco students' a socio-econo	nd schools'
		Score dif.	S.E.	Score dif.	S.E.	Unit dif.	S.E.	Unit dif.	S.E.	Odds ratio	S.E.	Odds ratio	S.E.
	Australia	42	(4.0)	25	(3.6)	0.27	(0.04)	0.20	(0.04)	2.86	(0.34)	2.60	(0.31)
OECD	Austria	75	(5.1)	30	(5.7)	0.51	(0.06)	0.23	(0.06)	2.24	(0.36)	1.86	(0.32)
0	Belgium	95	(3.7)	53	(3.5)	0.42	(0.04)	0.28	(0.04)	4.33	(1.21)	3.39	(1.00)
	Canada Chile	29 39	(3.3)	21 6	(2.8)	0.16 0.42	(0.03)	0.12 0.30	(0.03)	1.60 1.12	(0.10) (0.35)	1.50 0.95	(0.10)
	Czech Republic	104	(17.1)	64	(16.9)	C	(0.13) C	C C	(0.13) C	m	(0.55) m	m	(0.51) m
	Denmark	0	(18.1)	0	(17.4)	-0.20	(0.25)	-0.20	(0.24)	2.12	(1.28)	2.11	(1.27)
	Estonia	C	C (7.0)	C	(7.0)	C	C (0, 00)	C	(O, OO)	C	C (0. 27)	C 1 20	C (0, 22)
	Finland France	43 86	(7.9) (6.1)	33 28	(7.9) (7.7)	0.25 0.18	(0.08)	0.18 -0.03	(0.08)	1.49 4.57	(0.27) (1.49)	1.30 2.97	(0.23) (0.95)
	Germany	78	(6.5)	28	(7.0)	0.40	(0.09)	0.15	(0.10)	1.58	(0.33)	0.99	(0.22)
	Greece	63	(6.4)	33	(5.7)	0.27	(80.0)	0.15	(0.08)	2.18	(0.69)	1.77	(0.56)
	Hungary	-6	(9.1)	3	(4.3)	-0.06	(0.04)	-0.03	(0.03)	1.33	(0.21)	1.53	(0.23)
	Iceland Ireland	27 52	(9.0) (7.3)	36 39	(8.8)	0.09 0.33	(0.13)	0.18 0.29	(0.13)	1.24 2.57	(0.34)	1.33 2.41	(0.35)
	Israel	41	(12.9)	36	(10.4)	0.30	(0.09)	0.29	(0.08)	2.64	(0.38)	2.58	(0.37)
	Italy	49	(8.8)	17	(6.6)	0.19	(80.0)	0.06	(0.07)	1.71	(0.39)	1.18	(0.28)
	Japan	58	(17.9)	18	(12.7)	0.37	(0.12)	0.15	(0.10)	2.24	(0.69)	1.64	(0.57)
	Korea	82	(7.6)	39	(8.8)	0.47	(0.07)	0.23	(0.10)	0.83	(0.20)	0.65	(0.17)
	Latvia Luxembourg	43	(4.3)	с 9	(4.4)	0.26	(0.07)	0.09	(0.07)	2.09	(0.30)	m 1.60	m (0.23)
	Mexico	-20	(12.4)	-16	(9.5)	-0.16	(0.07)	-0.14	(0.07)	1.08	(0.20)	1.09	(0.20)
	Netherlands	10	(5.5)	10	(4.3)	0.09	(0.04)	0.09	(0.04)	4.63	(1.03)	4.77	(1.07)
	New Zealand	77	(8.7)	55	(8.0)	0.41	(0.07)	0.32	(0.07)	5.78	(1.52)	5.17	(1.35)
	Norway Poland	C C	C C	C C	C C	C	C C	C C	C C	C C	C C	C	C C
	Portugal	-3	(3.2)	4	(2.9)	0.20	(0.03)	0.24	(0.03)	5.43	(0.52)	6.15	(0.61)
	Slovak Republic	31	(6.2)	17	(5.2)	0.22	(0.06)	0.16	(0.06)	1.82	(0.25)	1.48	(0.22)
	Slovenia	76	(8.8)	25	(8.5)	0.40	(0.12)	0.22	(0.12)	1.60	(0.48)	1.42	(0.44)
	Spain Sweden	17 43	(2.9)	15 44	(2.8)	0.25 0.21	(0.03)	0.23 0.24	(0.03)	5.71 1.25	(0.61)	5.68 1.20	(0.63)
	Switzerland	9	(24.6)	-10	(7.1)	0.10	(0.23)	-0.01	(0.21)	2.45	(0.57)	2.17	(0.52)
	Turkey	34	(4.8)	23	(4.4)	0.21	(0.06)	0.17	(0.06)	1.86	(0.29)	1.69	(0.26)
	United Kingdom	79	(5.4)	66	(6.1)	0.47	(0.07)	0.42	(0.07)	5.19	(1.03)	4.99	(1.01)
	United States	25	(7.8)	12	(6.9)	0.15	(0.07)	0.08	(0.07)	1.37	(0.16)	1.30	(0.15
	OECD average	44	(1.8)	25	(1.5)	0.24	(0.02)	0.16	(0.02)	2.56	(0.13)	2.32	(0.11)
2	Albania	m	m	m	m	0.56	(0.09)	0.53	(0.09)	1.75	(0.60)	1.58	(0.54)
Partners	Algeria	11	(11.4)	13	(10.3)	0.07	(0.14)	0.08	(0.13)	1.93	(0.54)	2.05	(0.61)
Par	Brazil B-S-J-G (China)	23 30	(3.5) (7.4)	11 37	(3.0) (6.8)	0.13 0.05	(0.05) (0.04)	0.08 0.07	(0.05)	1.25 1.98	(0.10) (0.32)	1.17 2.03	(0.10) (0.35)
	Bulgaria	C	(7.4) C	C	(0.0) C	0.03	(0.04) C	0.07	(0.03)	C C	(0.32) C	C C	(0.55) C
	CABA (Argentina)	59	(14.2)	27	(10.6)	0.42	(0.22)	0.28	(0.21)	1.23	(0.53)	1.13	(0.47)
	Colombia	26	(4.6)	18	(3.9)	0.08	(0.05)	0.05	(0.04)	1.34	(0.16)	1.33	(0.16)
	Costa Rica Croatia	38 76	(6.1)	25 45	(5.9) (4.4)	0.13 0.30	(0.07)	0.07 0.16	(0.07)	1.19 5.01	(0.19)	1.09 3.73	(0.18)
	Cyprus*	44	(4.1) (6.9)	54	(6.9)	0.30	(0.03)	0.33	(0.03)	4.41	(1.00) (1.34)	4.60	(1.41)
	Dominican Republic	34	(6.8)	30	(5.6)	0.20	(0.13)	0.18	(0.13)	0.89	(0.16)	0.89	(0.16)
	FYROM	21	(3.3)	13	(3.1)	0.11	(0.03)	0.08	(0.03)	2.54	(0.27)	2.42	(0.25)
	Georgia Hong Kong (China)	76 14	(11.2)	62 11	(10.9)	0.60 0.26	(0.13)	0.53 0.25	(0.13)	0.73 4.63	(0.20) (0.54)	0.69 4.54	(0.19)
	Indonesia	-6	(6.6)	7	(8.1)	0.20	(0.04)	0.23	(0.04)	2.50	(0.83)	2.82	(0.87)
	Jordan	41	(6.7)	38	(6.6)	0.41	(0.09)	0.40	(0.08)	1.41	(0.31)	1.35	(0.28)
	Kosovo	47	(3.6)	39	(3.7)	0.39	(0.06)	0.35	(0.06)	2.08	(0.30)	1.90	(0.28)
	Lebanon Lithuania	56 m	(14.5)	56 m	(14.6) m	0.67 m	(0.13)	0.66	(0.14)	1.16 m	(0.53)	1.16	(0.55) m
	Macao (China)	23	m (3.0)	24	(2.9)	0.13	(0.03)	0.13	(0.03)	2.58	(0.28)	2.64	(0.29)
	Malta	142	(7.5)	105	(7.6)	0.62	(0.09)	0.51	(0.09)	3.50	(0.85)	2.62	(0.67)
	Moldova	40	(6.8)	38	(5.7)	0.14	(0.06)	0.12	(0.05)	1.43	(0.27)	1.37	(0.24)
	Montenegro Peru	19 33	(4.1) (7.2)	6 34	(4.0)	0.00	(0.07) (0.14)	-0.02 0.02	(0.07) (0.14)	2.76 1.14	(0.54) (0.34)	2.62 1.13	(0.52) (0.34)
	Qatar	37	(4.0)	30	(4.0)	0.02	(0.14)	0.02	(0.14)	2.15	(0.34)	2.09	(0.34)
	Romania	61	(10.4)	50	(9.0)	0.26	(0.08)	0.23	(0.08)	1.92	(0.77)	1.59	(0.65)
	Russia	C	С	C	C	C	C	С	C	C	С	С	C
	Singapore Chinese Taipei	185 73	(7.0) (8.2)	139 44	(7.3)	0.72 0.23	(0.16) (0.05)	0.57 0.09	(0.16) (0.05)	2.69 5.64	(0.93)	2.29 4.68	(0.82)
	Thailand	43	(6.2)	29	(6.1)	0.23	(0.05)	0.09	(0.05)	2.26	(1.29) (0.59)	1.91	(0.49)
	Trinidad and Tobago	15	(6.3)	15	(5.1)	0.26	(0.06)	0.26	(0.06)	4.56	(0.99)	4.65	(1.02)
	Tunisia	18	(7.7)	16	(7.4)	0.16	(0.07)	0.14	(0.07)	1.64	(0.29)	1.63	(0.30)
	United Arab Emirates Uruguay	15 58	(4.6) (5.8)	12	(4.7)	0.18 0.29	(0.04) (0.09)	0.16 0.16	(0.04) (0.09)	3.55 2.62	(0.43) (0.61)	3.53 2.11	(0.43) (0.49)
	Viet Nam		(5.8) m	29 m	(5.6) m	0.29 m	(0.09) m	0.16 m	(0.09) m	2.62 m	(0.61) m	2.11 m	(0.49) m
	Argentina**	30	(7.0)	23	(6.0)	0.21	(80.0)	0.12	(0.08)	1.65	(0.30)	1.40	(0.25)
	Argentina** Kazakhstan**	39 42	(7.0) (20.8)	23 36	(6.0) (18.5)	0.21 0.59	(0.08) (0.21)	0.12 0.55	(0.08) (0.20)	1.65 4.06	(0.30) (4.74)	1.40 3.93	(0.25) (4.72)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

* Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/1]

Table II.2.5 Science-specific resources at school

Res	ults based on school																
		Per	centage o	f student	s in schoo	ls where	the princ	ipal repo	rted that	the follow	ving state	ments are	true for	the school	ol's scienc	e departi	ment
		depar our s <school depart well-e</school 	npared other 'tments, chool's ol science ment> is quipped	some funding share go impro of our science>	ver have e extra eg, a big goes into vement <school teaching</school 	teach amoi best-ed staff m	science> ers are ng our ducated embers	to simila we l well-ed labo	pared ir schools, nave a quipped ratory	for ha activ <school is in go</school 	naterial inds-on ities in science> od shape	labo mater all cou regular	e enough ratory ial that rses can ly use it	laborat that help <school tead</school 	ve extra ory staff os support science> ching	extra on up- <school equi</school 	ool spends money to-date science> pment
		%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
OECD	Australia	94.0	(0.8)	28.4	(1.9)	69.3	(1.9)	87.7	(1.4)	94.7	(0.9)	91.7	(1.4)	94.8	(1.0)	69.1	(1.8)
2	Austria	68.3	(3.2)	31.8	(3.1)	65.2	(3.4)	50.9	(3.3)	73.2	(2.7)	51.0	(3.4)	6.8	(1.5)	38.8	(3.8)
	Belgium Canada	83.0 93.0	(2.3)	32.5 34.0	(3.0)	63.9 73.3	(3.4)	75.7 87.8	(2.9)	91.4 93.6	(1.7) (1.3)	76.1 89.8	(2.7) (1.5)	11.8 38.6	(2.3)	73.1 51.7	(2.7)
	Chile	61.8	(3.1)	35.7	(4.4)	70.3	(3.7)	62.4	(3.4)	68.7	(3.1)	48.2	(3.6)	17.9	(2.8)	35.4	(4.1)
	Czech Republic	77.5	(2.8)	53.5	(3.0)	75.4	(2.9)	47.0	(3.1)	73.6	(3.2)	48.3	(3.1)	0.0	С	40.0	(3.0)
	Denmark	74.2	(3.0)	19.1	(3.0)	66.0	(3.4)	66.4	(3.6)	85.0	(2.4)	87.5	(2.5)	8.4	(2.0)	28.8	(3.3)
	Estonia	69.3	(2.4)	32.2	(2.6)	82.2	(2.1)	34.7	(2.5)	65.5	(2.7)	42.5	(2.6)	17.2	(2.1)	46.2	(2.8)
	Finland France	68.8 82.3	(3.9)	20.8 38.7	(3.5)	56.7	(3.6)	39.8 73.9	(4.0)	75.3 89.7	(3.3)	77.5 81.2	(3.6)	3.0 68.1	(1.5)	24.2 69.5	(3.4)
	Germany	76.2	(3.2)	53.6	(3.4)	48.1	m (4.2)	48.2	(3.6)	84.5	(3.1)	76.5	(3.4)	4.1	(1.3)	52.8	(3.8)
	Greece	80.0	(3.1)	31.5	(3.5)	92.1	(2.2)	75.7	(3.5)	79.9	(3.2)	50.1	(3.8)	2.4	(1.2)	33.8	(3.6)
	Hungary	45.7	(3.6)	18.6	(2.6)	84.1	(2.5)	29.3	(2.9)	44.2	(3.5)	24.0	(2.7)	26.7	(2.9)	10.8	(1.7)
	Iceland	59.7	(0.3)	28.3	(0.2)	52.7	(0.3)	41.7	(0.2)	57.9	(0.3)	60.1	(0.3)	6.6	(0.2)	30.0	(0.2)
	Ireland	94.4	(1.8)	49.8	(3.7)	84.9	(3.0)	83.9	(2.9)	89.2	(2.7)	81.6	(3.3)	21.4	(3.6)	67.0	(3.9)
	Israel	75.0 m	(2.9)	55.7 75.5	(3.8)	60.8	(3.7)	58.3 75.1	(4.4)	81.0 81.0	(3.2)	60.5	(4.0)	72.7	(3.2)	60.9 59.3	(3.9)
	Italy Japan	47.4	(3.5)	14.1	(2.5)	53.2 21.7	(3.9)	31.8	(3.2)	31.4	(3.3)	29.7	(3.9)	73.2 63.0	(3.2)	8.5	(2.3)
	Korea	79.5	(3.0)	72.4	(3.8)	76.5	(3.5)	78.5	(3.3)	81.2	(3.0)	64.2	(3.8)	25.8	(3.0)	57.2	(3.8)
	Latvia	90.5	(1.3)	66.2	(2.7)	73.3	(2.7)	60.7	(2.5)	83.8	(1.8)	68.5	(2.3)	62.1	(2.4)	58.6	(2.9)
	Luxembourg	95.7	(0.0)	38.8	(0.1)	66.2	(0.1)	73.3	(0.1)	97.2	(0.0)	94.9	(0.0)	77.6	(0.1)	82.7	(0.1)
	Mexico	38.7	(2.9)	39.3	(3.4)	61.9	(3.3)	40.9	(2.8)	49.8	(2.9)	35.8	(2.7)	34.3	(2.8)	25.6	(3.0)
	Netherlands New Zealand	77.6 92.8	(4.0)	29.8	(4.5)	44.5 73.1	(4.7)	70.2 81.8	(4.4)	80.0 91.4	(3.7)	78.8 88.8	(3.6)	60.7 93.1	(4.2)	39.1 63.6	(4.7)
	Norway	62.0	(3.9)	20.5	(2.9)	61.2	(3.7)	56.2	(3.7)	78.9	(3.0)	74.6	(3.3)	8.7	(2.2)	31.4	(3.8)
	Poland	68.7	(4.1)	51.5	(4.0)	58.7	(4.0)	69.0	(3.9)	89.7	(2.5)	53.3	(4.0)	7.9	(2.3)	69.8	(3.5)
	Portugal	89.6	(2.2)	76.8	(3.5)	60.6	(3.6)	77.9	(2.6)	90.8	(2.1)	76.5	(3.0)	28.3	(2.9)	76.2	(3.3)
	Slovak Republic	64.3	(2.8)	49.4	(2.9)	71.4	(2.9)	36.0	(2.8)	65.0	(2.6)	33.9	(3.1)	3.1	(0.8)	64.0	(2.8)
	Slovenia	76.4 75.5	(0.3)	24.0 38.5	(0.6)	49.2 73.1	(0.6)	80.5 68.7	(0.4)	88.4 82.1	(0.1)	85.2	(0.3)	77.7 7.0	(0.6)	64.6 43.5	(0.7)
	Spain Sweden	68.6	(3.4)	22.8	(3.6)	58.5	(4.0)	60.1	(3.2)	85.6	(2.6)	50.1 83.3	(2.7)	10.9	(1.6)	32.6	(3.4)
	Switzerland	83.0	(2.8)	28.7	(2.9)	56.0	(3.8)	64.4	(3.6)	89.9	(2.2)	77.7	(3.1)	22.1	(2.6)	40.5	(2.9)
	Turkey	28.3	(3.1)	33.5	(4.3)	58.3	(3.9)	32.9	(3.5)	37.4	(3.9)	29.6	(3.7)	22.3	(3.5)	24.2	(3.9)
	United Kingdom	85.9	(2.7)	35.3	(3.7)	68.5	(3.3)	78.3	(3.0)	84.9	(2.8)	91.3	(1.8)	90.6	(2.2)	56.7	(3.5)
	United States	88.8	(2.5)	42.3	(4.1)	85.9	(2.5)	81.5	(2.7)	88.5	(2.1)	80.5	(3.0)	23.3	(3.4)	55.7	(4.3)
	OECD average	74.0	(0.5)	38.6	(0.5)	65.2	(0.5)	62.3	(0.5)	77.8	(0.4)	65.9	(0.5)	34.1	(0.4)	48.2	(0.5)
S	Albania	76.9	(3.1)	58.6	(3.6)	83.2	(2.5)	32.4	(3.5)	40.9	(3.9)	17.6	(2.8)	7.8	(2.0)	16.4	(2.4)
Partners	Algeria	68.4	(4.3)	65.4	(4.5)	81.4	(3.5)	60.0	(4.5)	88.4	(3.1)	78.3	(3.5)	19.8	(4.1)	56.7	(4.2)
art	Brazil	39.2	(3.1)	40.7	(2.6)	61.8	(2.6)	39.1	(3.0)	47.7	(2.7)	25.1	(2.3)	10.7	(1.6)	17.1	(1.9)
-	B-S-J-G (China)	79.0	(3.2)	87.3	(2.6)	53.3	(4.2)	83.0	(2.7)	53.2	(3.9)	71.6	(3.8)	52.5	(3.9)	39.4	(3.9)
	Bulgaria	61.8 78.8	(3.6)	72.1 47.4	(3.5)	91.5 73.5	(2.1)	33.7 80.3	(3.9) (5.5)	62.1 93.7	(4.1)	36.1 69.0	(3.8)	4.1 94.0	(1.6)	59.5 63.9	(3.4)
	CABA (Argentina) Colombia	51.7	(3.9)	70.0	(3.4)	87.6	(2.6)	40.0	(3.8)	56.6	(3.8)	27.3	(3.0)	7.7	(1.7)	49.2	(3.4)
	Costa Rica	39.6	(3.4)	87.3	(2.6)	78.5	(3.4)	21.8	(3.4)	45.8	(3.7)	15.7	(3.0)	5.9	(1.7)	23.2	(3.4)
	Croatia	55.1	(3.7)	60.4	(3.9)	61.2	(4.0)	53.5	(4.0)	50.3	(4.1)	37.1	(4.1)	6.6	(1.6)	42.8	(3.7)
	Cyprus*	90.9	(0.1)	38.0	(0.2)	92.7	(0.1)	92.5	(0.1)	96.3	(0.1)	84.8	(0.1)	11.9	(0.1)	47.6	(0.1)
	Dominican Republic	39.3	(3.3)	59.0	(3.6)	81.6	(3.1)	39.3	(3.3)	56.9	(3.5)	31.7	(3.6)	20.4	(3.2)	38.5	(3.9)
	FYROM Georgia	37.3 69.4	(0.2)	64.0 28.9	(0.2)	41.4 74.2	(0.2)	32.9 51.8	(0.2)	63.0 68.3	(0.2)	28.5 35.1	(0.2)	16.5 15.4	(0.1)	33.0 43.0	(0.2)
	Georgia Hong Kong (China)	90.8	(2.7)	33.4	(3.8)	74.2	(4.3)	76.4	(4.2)	96.9	(1.6)	97.7	(1.2)	74.8	(4.0)	68.8	(3.4)
	Indonesia	41.1	(3.6)	41.4	(3.4)	87.3	(2.8)	38.2	(3.8)	58.4	(3.8)	46.1	(3.9)	29.8	(3.2)	19.3	(2.8)
	Jordan	81.1	(2.8)	57.7	(3.1)	64.7	(3.7)	77.1	(3.1)	83.8	(2.9)	70.3	(3.3)	72.0	(2.7)	47.9	(3.9)
	Kosovo	85.4	(1.1)	58.7	(1.3)	75.7	(1.3)	26.8	(1.0)	24.5	(1.1)	12.9	(1.0)	7.7	(0.5)	13.3	(0.8)
	Lebanon Lithuania	81.1 82.9	(2.7)	78.8 57.2	(2.9)	94.9 74.0	(0.9)	72.2 36.0	(2.7)	83.0 68.3	(2.5)	67.0 32.9	(3.0)	50.1 19.7	(3.4)	67.1 64.9	(3.4)
	Macao (China)	85.3	(0.1)	54.2	(0.1)	65.2	(0.1)	81.8	(0.1)	93.5	(0.0)	88.5	(0.0)	90.1	(0.1)	63.7	(0.1)
	Malta	98.9	(0.0)	61.8	(0.1)	85.5	(0.1)	89.5	(0.1)	97.9	(0.0)	95.1	(0.1)	81.2	(0.1)	66.3	(0.1)
	Moldova	48.0	(3.7)	91.2	(1.7)	81.2	(2.6)	41.8	(3.6)	72.5	(2.6)	26.0	(3.4)	38.4	(3.6)	48.8	(3.0)
	Montenegro	63.0	(0.3)	61.4	(0.3)	50.6	(0.4)	45.1	(0.3)	57.8	(0.3)	31.5	(0.3)	11.3	(0.1)	23.6	(0.4)
	Peru Qatar	36.8 92.8	(3.1)	20.9 81.5	(2.4)	77.7 95.6	(2.6)	32.8 87.5	(3.4)	46.2 94.0	(2.9)	19.1 89.0	(2.8)	25.9 73.8	(2.7)	21.2 82.1	(2.6)
	Romania	91.1	(0.0)	92.2	(2.0)	77.4	(0.0)	86.3	(0.1)	64.1	(4.0)	64.4	(3.8)	49.9	(3.9)	52.5	(4.4)
	Russia	81.1	(2.5)	53.7	(4.0)	92.0	(2.0)	55.5	(3.8)	87.7	(1.8)	65.8	(4.2)	43.1	(3.7)	42.5	(4.2)
	Singapore	95.2	(0.1)	38.7	(0.5)	74.5	(0.2)	88.4	(0.1)	98.7	(0.0)	100.0	С	75.0	(0.2)	69.2	(0.3)
	Chinese Taipei	67.1	(2.8)	56.1	(3.3)	46.5	(3.7)	59.1	(3.5)	82.3	(2.1)	74.8	(2.8)	28.7	(3.0)	59.5	(3.7)
	Thailand	64.1	(3.6)	58.1	(3.5)	61.1	(4.0)	55.2	(3.7)	58.9	(3.4)	44.6	(3.9)	29.4	(3.6)	28.1	(3.5)
	Trinidad and Tobago Tunisia	71.0 48.7	(0.2)	39.1 78.7	(0.3)	67.5 79.6	(0.3)	60.8 51.8	(0.3)	70.2 47.4	(0.3)	65.1 27.3	(0.2)	53.3 29.6	(0.3)	47.5 22.7	(0.3)
	United Arab Emirates	94.7	(1.7)	77.6	(2.2)	87.4	(1.7)	90.9	(2.0)	93.4	(1.4)	87.8	(2.0)	78.2	(2.1)	79.7	(2.4)
	Uruguay	80.9	(2.0)	56.3	(3.2)	81.9	(2.3)	80.1	(2.4)	88.0	(1.8)	72.2	(2.8)	61.7	(2.8)	57.4	(2.7)
	Viet Nam	55.8	(4.2)	94.7	(1.5)	72.3	(4.1)	32.8	(3.6)	39.9	(3.9)	44.2	(4.0)	70.5	(4.0)	62.1	(3.6)
	Argentina**	52.3	(4.0)	36.3	(3.2)	67.1	(4.1)	53.1	(3.4)	65.7	(3.4)	39.1	(3.4)	42.6	(3.3)	40.3	(3.7)
	Kazakhstan**	86.1	(2.3)	68.2	(3.2)	97.6	(1.2)	67.2	(2.8)	87.3	(2.4)	66.0	(3.2)	81.2	(2.5)	50.8	(3.5)
	Malaysia**	83.5	(3.3)	89.0	(2.5)	93.5	(1.9)	57.0	(3.9)	84.9	(2.8)	71.2	(3.7)	65.3	(3.8)	59.8	(4.3)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/3]

Table II.2.6 Index of science-specific resources, by student and school characteristics

		All stu	idents					By sch	ool socio-	economic	profile ¹			
	Ava	rage		ability s index	Rottom	guarter	Second	guarter	Third	guarter	Top	uarter		bottom arter
	Mean			-	Mean		Mean		Mean		Mean			
A 4 U .	index	S.E.	S.D.	S.E.	index	S.E.	index	S.E.	index	S.E.	index	S.E.	Dif.	S.E.
Australia Austria	6.26 3.82	(0.05)	1.34 2.33	(0.05)	6.14 3.19	(0.10) (0.41)	6.01 3.63	(0.15) (0.39)	6.33 4.17	(0.11) (0.29)	6.55 4.22	(0.10) (0.29)	0.41 1.03	(0.14
Belgium	4.99	(0.19)	1.65	(0.09)	4.40	(0.22)	5.05	(0.25)	5.30	(0.21)	5.17	(0.20)	0.77	(0.40
Canada	5.59	(0.09)	1.54	(0.08)	5.34	(0.16)	5.58	(0.15)	5.54	(0.22)	5.89	(0.14)	0.55	(0.21
Chile	3.99	(0.18)	2.51	(0.09)	3.28	(0.39)	3.19	(0.47)	4.47	(0.52)	4.95	(0.40)	1.67	(0.50
Czech Republic	4.14	(0.14)	2.13	(0.06)	3.62	(0.24)	4.39	(0.26)	3.40	(0.30)	5.15	(0.28)	1.53	(0.37
Denmark	4.32	(0.10)	1.51	(0.10)	4.12	(0.15)	4.29	(0.25)	4.67	(0.18)	4.16	(0.24)	0.03	(0.27
Estonia	3.84	(0.09)	1.82	(0.06)	3.44	(0.22)	3.97	(0.19)	3.99	(0.21)	3.96	(0.18)	0.52	(0.28
Finland	3.65	(0.12)	1.52	(0.07)	3.20	(0.24)	3.52	(0.27)	3.83	(0.27)	4.04	(0.24)	0.84	(0.34
France	4.93	(0.10)	1.69	(0.08)	3.89	(0.22)	4.72	(0.19)	5.44	(0.24)	5.58	(0.21)	1.69	(0.30
Germany	4.36	(0.14)	1.85	(0.09)	4.01	(0.34)	4.03	(0.36)	4.53	(0.28)	4.83	(0.27)	0.81	(0.38
Greece	4.41	(0.14)	1.88	(0.10)	3.88	(0.38)	4.67	(0.31)	4.39	(0.28)	4.72	(0.29)	0.84	(0.45
Hungary	2.83	(0.13)	2.15	(0.07)	1.70	(0.16)	2.39	(0.31)	3.12	(0.36)	4.05	(0.40)	2.35	(0.41
Iceland	3.35	(0.01)	2.00	(0.01)	2.88	(0.04)	3.42	(0.03)	3.30	(0.02)	3.82	(0.02)	0.94	(0.05
Ireland	5.69	(0.12)	1.60	(0.09)	5.05	(0.27)	5.68	(0.29)	5.75	(0.29)	6.26	(0.24)	1.21	(0.35
Israel	5.23	(0.17)	2.25	(0.10)	4.81	(0.36)	4.88	(0.48)	5.49	(0.46)	5.73	(0.43)	0.91	(0.56
Italy	4.71	(0.13)	1.77	(0.09)	4.20	(0.30)	4.63	(0.29)	5.07	(0.25)	4.89	(0.24)	0.69	(0.36
Japan Koroa	2.48	(0.13)	1.94	(0.10)	1.86 4.80	(0.25)	1.83	(0.25)	2.72	(0.34)	3.49 5.60	(0.31)	1.63 0.80	(0.40
Korea Latvia	5.32 5.63	(0.14)	1.88 1.97	(0.10)	4.80	(0.35)	5.41 5.63	(0.28)	5.46 6.05	(0.35)	5.60	(0.34) (0.21)	0.80	(0.5)
	6.25	(0.09)	1.97	(0.07)	5.87	(0.28)	5.66	(0.23)	6.05	(0.27)	7.26	(0.21)	1.39	(0.0
Luxembourg Mexico	3.25	(0.00)	2.57	(0.00)	1.47	(0.01)	3.24	(0.01)	3.21	(0.40)	5.07	(0.00)	3.60	(0.4
Netherlands	4.77	(0.14)	2.57	(0.08)	3.46	(0.24)	4.35	(0.39)	5.44	(0.40)	5.83	(0.38)	2.37	(0.4
New Zealand	6.05	(0.19)	1.50	(0.12)	5.81	(0.19)	5.98	(0.39)	6.01	(0.38)	6.35	(0.32)	0.53	(0.3
New Zealand Norway	3.89	(0.11)	1.75	(0.09)	3.54	(0.19)	4.19	(0.23)	3.24	(0.23)	4.63	(0.21)	1.09	(0.3
Poland	4.67	(0.15)	1.89	(0.08)	4.26	(0.24)	4.19	(0.23)	5.32	(0.29)	4.55	(0.34)	0.28	(0.4
Portugal	5.74	(0.10)	1.49	(0.10)	5.49	(0.19)	5.43	(0.26)	5.91	(0.18)	6.13	(0.25)	0.64	(0.3
Slovak Republic	3.85	(0.10)	2.23	(0.07)	3.11	(0.15)	3.74	(0.26)	3.80	(0.10)	4.77	(0.27)	1.66	(0.3
Slovenia	5.41	(0.02)	1.91	(0.01)	4.57	(0.26)	5.51	(0.03)	5.79	(0.03)	5.76	(0.02)	1.19	(0.0)
Spain	4.33	(0.14)	1.90	(0.08)	3.83	(0.30)	4.29	(0.29)	4.46	(0.33)	4.74	(0.25)	0.91	(0.3
Sweden	4.20	(0.12)	1.62	(0.09)	4.03	(0.23)	4.06	(0.26)	4.20	(0.26)	4.53	(0.24)	0.51	(0.3
Switzerland	4.58	(0.12)	1.86	(0.03)	3.73	(0.26)	4.56	(0.26)	4.81	(0.29)	5.25	(0.25)	1.52	(0.3
Turkey	2.64	(0.12)	2.36	(0.11)	1.89	(0.24)	2.02	(0.53)	2.66	(0.43)	4.00	(0.42)	2.12	(0.5
United Kingdom	5.80	(0.12)	1.74	(0.11)	5.81	(0.32)	5.49	(0.28)	5.85	(0.22)	6.04	(0.24)	0.23	(0.4
United States	5.44	(0.14)	1.83	(0.11)	4.73	(0.40)	5.89	(0.36)	5.26	(0.25)	5.85	(0.22)	1.12	(0.4
OECD average	4.58	(0.02)	1.87	(0.01)	4.01	(0.05)	4.45	(0.05)	4.72	(0.05)	5.13	(0.05)	1.12	(0.06
Albania	3.27	(0.13)	1.79	(0.11)	3.10	(0.30)	3.28	(0.49)	3.60	(0.57)	3.10	(0.22)	0.00	(0.3
Algeria	4.99	(0.16)	1.75	(0.12)	4.65	(0.29)	5.19	(0.36)	4.63	(0.46)	5.42	(0.31)	0.77	(0.4
Brazil	2.79	(0.12)	2.36	(0.06)	1.92	(0.17)	2.33	(0.25)	2.94	(0.29)	3.89	(0.33)	1.97	(0.3
B-S-J-G (China)	5.19	(0.16)	2.05	(0.10)	4.19	(0.32)	4.44	(0.37)	5.79	(0.47)	6.31	(0.21)	2.11	(0.3
Bulgaria	4.18	(0.12)	1.89	(0.07)	3.35	(0.29)	3.57	(0.26)	4.74	(0.24)	5.05	(0.29)	1.71	(0.4
CABA (Argentina)	5.96	(0.26)	2.02	(0.22)	4.59	(0.87)	5.52	(0.72)	6.57	(0.36)	7.12	(0.39)	2.52	(0.9
Colombia	3.89	(0.15)	1.97	(0.08)	2.83	(0.21)	3.86	(0.31)	4.03	(0.27)	4.73	(0.29)	1.90	(0.3
Costa Rica	3.15	(0.16)	1.87	(0.09)	3.39	(0.32)	2.52	(0.21)	3.39	(0.37)	3.29	(0.30)	-0.10	(0.4
Croatia	3.67	(0.19)	2.45	(0.08)	2.69	(0.47)	4.32	(0.49)	3.68	(0.45)	3.91	(0.38)	1.22	(0.5
Cyprus*	5.46 3.65	(0.00)	1.49 2.61	(0.00)	5.12 2.36	(0.01)	5.23 3.74	(0.01)	5.51	(0.01)	5.98 4.93	(0.01)	0.87 2.58	(0.0
Dominican Republic FYROM	3.65	(0.17)	2.61	(0.10)	2.36	(0.33)	3.74	(0.47)	3.53	(0.45)	2.98	(0.48)	0.17	(0.6
Georgia	3.11	(0.01)	2.26	(0.01)	2.80	(0.04)	3.42	(0.02)	3.22	(0.02)	4.54	(0.02)	1.63	(0.4
Hong Kong (China)	6.10	(0.14)	1.41	(0.07)	5.83	(0.22)	5.97	(0.30)	6.37	(0.22)	6.23	(0.32)	0.41	(0.4
Indonesia	3.54	(0.15)	2.28	(0.10)	2.31	(0.30)	2.94	(0.27)	4.06	(0.40)	5.00	(0.31)	2.69	(0.3
Jordan	5.51	(0.15)	2.12	(0.11)	5.01	(0.34)	5.56	(0.49)	5.00	(0.40)	6.48	(0.32)	1.48	(0.4
Kosovo	2.98	(0.13)	1.58	(0.03)	2.50	(0.11)	2.88	(0.49)	3.16	(0.09)	3.37	(0.28)	0.87	(0.4
Lebanon	5.80	(0.12)	2.09	(0.03)	4.96	(0.11)	5.69	(0.32)	5.89	(0.03)	6.67	(0.05)	1.71	(0.4
Lithuania	4.35	(0.09)	1.72	(0.07)	3.56	(0.23)	4.54	(0.20)	4.73	(0.23)	4.58	(0.17)	1.02	(0.2
Macao (China)	6.18	(0.00)	1.71	(0.00)	5.70	(0.01)	6.94	(0.00)	6.09	(0.01)	6.00	(0.00)	0.30	(0.0
Malta	6.76	(0.00)	1.34	(0.00)	6.48	(0.01)	6.71	(0.01)	6.67	(0.01)	7.20	(0.01)	0.72	(0.0
Moldova	4.39	(0.13)	1.96	(0.09)	3.43	(0.23)	4.52	(0.32)	4.65	(0.30)	4.98	(0.27)	1.55	(0.3
Montenegro	3.42	(0.02)	2.38	(0.01)	3.76	(0.04)	4.07	(0.06)	2.83	(0.01)	3.03	(0.02)	-0.73	(0.0
Peru	2.79	(0.13)	2.07	(0.07)	1.75	(0.20)	2.52	(0.28)	3.30	(0.26)	3.57	(0.30)	1.82	(0.3
Qatar	6.96	(0.00)	1.47	(0.00)	6.66	(0.01)	6.96	(0.01)	7.53	(0.01)	6.67	(0.01)	0.01	(0.0)
Romania	5.77	(0.13)	1.69	(0.07)	5.45	(0.23)	6.04	(0.25)	5.68	(0.29)	5.94	(0.29)	0.49	(0.3
Russia	5.21	(0.12)	1.92	(0.08)	4.53	(0.33)	5.17	(0.43)	5.55	(0.46)	5.57	(0.31)	1.03	(0.4
Singapore	6.37	(0.01)	1.39	(0.00)	6.04	(0.01)	6.13	(0.04)	6.57	(0.09)	6.73	(0.17)	0.69	(0.1
Chinese Taipei	4.72	(0.16)	2.45	(0.07)	3.21	(0.34)	4.61	(0.51)	5.15	(0.35)	5.89	(0.28)	2.68	(0.4
Thailand	3.99	(0.18)	2.35	(0.10)	3.11	(0.32)	2.90	(0.30)	4.39	(0.50)	5.50	(0.38)	2.39	(0.5
Trinidad and Tobago	4.70	(0.01)	2.08	(0.01)	4.39	(0.03)	5.08	(0.03)	4.36	(0.02)	5.01	(0.01)	0.62	(0.0)
Tunisia	3.84	(0.16)	1.98	(0.08)	3.82	(0.33)	3.26	(0.33)	3.78	(0.38)	4.62	(0.33)	0.80	(0.4
United Arab Emirates	6.87	(0.08)	1.43	(0.11)	6.41	(0.26)	7.11	(0.12)	6.99	(0.17)	6.93	(0.11)	0.53	(0.2
Uruguay	5.78	(0.10)	1.90	(0.07)	5.31	(0.20)	5.44	(0.23)	5.98	(0.24)	6.42	(0.21)	1.11	(0.2
	4.70	(0.17)	2.02	(0.09)	3.96	(0.36)	4.20	(0.33)	5.13	(0.41)	5.50	(0.27)	1.54	(0.4
Viet Nam	4.70	(0.17)	2.02	(0.09)	3.96	(0.36)	4.20	(0.33)	5.13	(0.41)	5.50	(0.27)	1.54	
Viet Nam Argentina** Kazakhstan**	3.94 6.05	(0.17)	2.02 2.46 1.80	(0.09)	3.96 3.28 5.47	(0.36)	2.81 6.14	(0.33)	4.51 6.36	(0.41)	5.50	(0.27)	1.89 0.75	(0.4

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

** See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 2/3]

Table II.2.6 Index of science-specific resources, by student and school characteristics

Res	ults based on schoo	l princ	ipals'		ts y schoo	Llocatio	n .			l B	By type of sch	nool			R	y educa	ation lev	/el	
		Rura	larea		wn	liocatio	,,,				y type of sen			Lo	wer	í	per		
		or vi (fewe		(3 to 10	000 0 000 pple)	(over 1 peo	00 000		ty – I area	Public	Private		ate – blic	seco educ	ndary cation ED 2)	seco educ	ndary cation ED 3)		ED 3 - ED 2
		Mean index	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.E.	Mean index S.E.	Mean index S.E.	Dif.	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.E.
Q	Australia	5.59	(0.37)	6.01	(0.12)	6.40	(0.06)	0.81	(0.38)	6.12 (0.07)	6.48 (0.07)	0.36	(0.10)	6.23	(0.06)	6.43	(0.09)	0.19	(0.09)
OECD	Austria	4.33	(0.59)	3.61	(0.20)	4.05	(0.24)	-0.29	(0.63)	3.92 (0.17)	3.27 (0.31)	-0.65	(0.37)	3.06	(0.49)	3.83	(0.16)	0.77	(0.51)
0	Belgium Canada	5.55	(0.34) (0.28)	5.11	(0.11)	4.74 5.58	(0.24)	-0.82 0.49	(0.41)	5.54 (0.09)	6.24 (0.31)	0.70	(0.32)	3.82 5.89	(0.29)	5.09	(0.09)	-0.33	(0.29)
	Chile	1.77	(0.57)	3.76	(0.32)	4.18	(0.23)	2.41	(0.62)	3.27 (0.32)	4.40 (0.21)	1.13	(0.37)	3.49	(0.40)	4.02	(0.19)	0.53	(0.44)
	Czech Republic	3.57	(0.27)	4.34	(0.17)	3.85	(0.29)	0.29	(0.40)	4.21 (0.14)	3.30 (0.45)	-0.91	(0.48)	4.40	(0.13)	3.84	(0.23)	-0.56	(0.24)
	Denmark	4.32	(0.25)	4.27	(0.14)	4.50	(0.27)			4.28 (0.11)	4.42 (0.23)		(0.25)	4.31	(0.10)	С	С	С	С
	Estonia Finland	3.39	(0.22)	4.13 3.50	(0.14)	3.74 4.02	(0.13) (0.24)	0.35	(0.26) (0.34)	3.82 (0.09) 3.61 (0.12)	3.90 (0.54) 4.94 (0.22)	0.08 1.33	(0.55)	3.85	(0.09)	3.53 c	(0.43) C	-0.32 c	(0.44)
	France	4.17	(0.65)	4.84	(0.13)	5.22	(0.24) (0.20)	1.05	(0.67)	4.96 (0.12)	4.92 (0.21)	-0.03	(0.25)	4.04	(0.12)	5.19	(0.12)	1.15	(0.19)
	Germany	3.96	(0.44)	4.44	(0.17)	4.26	(0.26)	0.30	(0.50)	4.36 (0.15)	4.46 (0.31)		(0.35)	4.31	(0.14)	5.39	(0.69)	1.08	(0.68)
	Greece	4.85	(0.40)	4.41	(0.19)	4.28	(0.23)	-0.57	(0.46)	4.34 (0.15)	5.86 (0.45)	1.52	(0.48)	4.33	(0.43)	4.42	(0.15)	0.09	(0.45)
	Hungary	1.78	(0.57)	2.89	(0.18)	2.82	(0.24)	1.05	(0.65)	2.76 (0.15)	3.25 (0.29)		(0.33)	1.89	(0.19)	2.94	(0.14)	1.04	(0.23)
	Iceland Ireland	2.93 4.99	(0.03)	3.51 5.60	(0.01)	3.37 6.30	(0.02) (0.19)	0.44 1.32	(0.04)	3.33 (0.01) 5.31 (0.21)	c c 5.95 (0.15)	0.65	(0.25)	3.35 5.69	(0.01)	5.68	m (0.13)	-0.02	(0.05)
	Israel	4.55	(0.47)	5.60	(0.24)	5.01	(0.32)	0.46	(0.58)	m m	m m	m	m	5.76	(0.26)	5.17	(0.17)	-0.59	(0.24)
	Italy	5.70	(0.66)	4.68	(0.16)	4.74	(0.23)	-0.96	(0.70)	4.72 (0.14)		-0.03	(0.42)	3.13	(0.36)	4.73	(0.13)	1.60	(0.38)
	Japan Karaa	С	С	1.98	(0.21)	2.67	(0.17)	С	C	2.40 (0.15)	2.65 (0.26)	0.25	(0.29)	m	m (0.24)	2.48	(0.13)	m	m (0.20)
	Korea Latvia	4.40	(0.26)	4.88 6.29	(0.48)	5.37	(0.14)	1.05	(0.29)	5.39 (0.16) 5.63 (0.09)	5.18 (0.27) 5.63 (0.78)	0.00	(0.31) (0.78)	5.66	(0.24)	5.28	(0.16)	-0.38 -0.29	(0.29)
	Luxembourg	m m	(0.20) m	5.96	(0.00)	6.62	(0.00)	m	(0.23) m	6.29 (0.00)	6.03 (0.01)		(0.01)	6.07	(0.00)	6.50	(0.00)	0.43	(0.01)
	Mexico	1.06	(0.27)	3.24	(0.23)	4.05	(0.25)	2.99	(0.38)	2.99 (0.14)	5.05 (0.47)	2.06	(0.49)	2.08	(0.26)	4.00	(0.20)	1.91	(0.36)
	Netherlands	C	C (0.54)	4.93	(0.20)	4.42	(0.42)	C	C (0. F.T)	4.87 (0.33)	4.65 (0.23)	-0.22	(0.40)	4.42	(0.22)	5.68	(0.23)	1.26	(0.28)
	New Zealand Norway	5.42 3.25	(0.54)	5.81 3.94	(0.19)	6.27 4.41	(0.16) (0.29)	0.85	(0.57) (0.35)	5.98 (0.12) 3.86 (0.14)	7.26 (0.23) 4.67 (0.71)	1.28 0.81	(0.25) (0.72)	6.21 3.89	(0.11)	6.04 c	(0.11) C	-0.17	(0.09) C
	Poland	4.31	(0.25)	4.96	(0.23)	4.81	(0.30)	0.50	(0.39)	4.68 (0.16)	4.40 (0.62)	-0.27	(0.65)	4.67	(0.15)	С	С	С	С
	Portugal	4.66	(0.46)	5.75	(0.12)	5.87	(0.23)	1.22	(0.50)	5.71 (0.11)	6.30 (0.48)		(0.50)	5.26	(0.16)	6.00	(0.11)	0.74	(0.16)
	Slovak Republic	3.83	(0.23)	3.81	(0.17)	4.16	(0.46)	0.33	(0.46)	3.88 (0.14)	3.69 (0.41)	-0.19	(0.45)	4.23	(0.15)	3.52	(0.19)	-0.71	(0.24)
	Slovenia Spain	4.99 3.03	(0.10)	5.52 4.37	(0.02)	5.38 4.41	(0.04)	0.39 1.38	(0.11)	5.40 (0.02) 4.12 (0.15)	5.69 (0.01) 4.79 (0.26)	0.29	(0.02)	4.68	(0.36)	5.45 C	(0.01)	0.77	(0.36) C
	Sweden	3.45	(0.52)	4.22	(0.14)	4.38	(0.21)	0.93		4.25 (0.13)			(0.34)		(0.12)	4.46	(0.64)		(0.64)
	Switzerland	3.52	(0.35)	4.59	(0.14)	4.87	(0.39)	1.35	(0.53)	4.70 (0.13)	2.78 (0.28)	-1.92	(0.31)	4.41	(0.13)	5.19	(0.28)	0.78	(0.30)
	Turkey United Kingdom	3.51 6.25	(0.77)	2.60 5.61	(0.29)	2.65 6.27	(0.27)	-0.87 0.02	(0.82)	2.47 (0.18) 5.83 (0.13)	6.17 (0.66) 5.89 (0.50)	3.70 0.06	(0.69)	2.16 5.37	(0.76) (0.43)	2.66 5.81	(0.19)	0.50	(0.79)
	United States		(0.62)	5.61	(0.17)	5.32	(0.29)		(0.68)	5.35 (0.14)	6.31 (0.40)	0.96	(0.42)	5.38	(0.23)		(0.13)	0.06	(0.14)
i	OECD average	4.09	(0.08)	4.58	(0.03)	4.70	(0.04)			4.50 (0.03)	4.91 (0.07)	0.38	(0.07)	4.41	(0.04)	4.82	(0.05)		(0.07)
9	Albania	2.72	(0.15)	3.11	(0.19)	3.93	(0.36)	1.21	(0.39)	2.85 (0.10)	6.37 (0.30)	3.52	(0.31)	2.93	(0.16)	3.46	(0.17)	0.53	(0.24)
ner.	Algeria	3.72	(0.47)	4.93	(0.20)	5.96	(0.35)	2.24		4.99 (0.17)	СС	С	С	4.93	(0.18)	5.19	(0.34)		(0.38)
Partners	Brazil	1.91	(0.50)	2.24	(0.16)	3.38	(0.19)	1.47	(0.54)	2.48 (0.13)			(0.39)	1.99	(0.17)	2.97	(0.14)		(0.21)
	B-S-J-G (China) Bulgaria	4.02 2.87	(0.53)	4.78	(0.24)	6.09 4.16	(0.24)	2.06	(0.58)	5.18 (0.17) 4.17 (0.13)	5.20 (0.63) c c	0.03	(0.67)	4.80	(0.17)	5.84	(0.26)	1.05	(0.30) (0.42)
	CABA (Argentina)	m	(0.55) m	7.20 C	(0.10) C	5.99	(0.23)	m	(0.40) m	4.84 (0.47)	7.15 (0.18)	2.31	(0.48)	5.88	(0.27)	6.88	(0.50)	1.00	(0.52)
	Colombia	3.24	(0.37)	3.70	(0.27)	4.23	(0.18)	0.99	(0.40)	3.58 (0.16)	4.84 (0.31)	1.26	(0.35)	3.67	(0.14)	4.03	(0.16)	0.37	(0.11)
	Costa Rica	3.25	(0.26)	2.93	(0.20)	4.22	(0.48)	0.97	(0.57)	2.91 (0.15)	4.83 (0.47)	1.92	(0.48)	3.07	(0.15)	3.24	(0.18)	0.17	(0.11)
	Croatia Cyprus*	5.87	(0.03)	3.42 5.45	(0.21)	4.01 5.42	(0.32)	-0.44	(0.03)	3.64 (0.19) 5.30 (0.00)	4.75 (0.69) 6.28 (0.01)	1.11 0.97	(0.71)	4.90	(0.04)	3.67 5.50	(0.19)	0.59	(0.04)
	Dominican Republic	2.14	(0.30)	3.95	(0.25)	3.94	(0.48)	1.80	(0.57)	3.21 (0.19)	5.23 (0.43)	2.03	(0.47)	1.76	(0.24)		(0.20)		(0.31)
	FYROM	3.62	(0.02)	3.25	(0.01)	2.87	(0.02)	-0.75	(0.03)	3.04 (0.01)	7.16 (0.01)	4.12	(0.02)	С	С		(0.01)	С	С
	Georgia	2.69	(0.20)	3.96	(0.29)	4.44	(0.24)	1.75	(0.29)	3.66 (0.15)	5.32 (0.39)	1.66	(0.42)	3.92	(0.16)	3.77	(0.15)	-0.15	(0.14)
	Hong Kong (China) Indonesia	2.56	m (0.26)	3.77	m (0.25)	6.10 4.84	(0.13) (0.28)	2.28	m (0.39)	5.96 (0.80) 3.97 (0.21)	6.11 (0.13) 2.91 (0.23)	0.15 -1.06	(0.81)	6.16 2.82	(0.14) (0.22)	6.08 4.18	(0.14) (0.23)	-0.08 1.36	(0.09)
	Jordan	4.32	(0.42)	5.37	(0.20)	6.15	(0.27)		(0.50)	5.31 (0.19)	6.18 (0.22)	0.86	(0.28)	5.51	(0.15)	m	m	m	m
	Kosovo		(0.10)		(0.05)		(0.08)		(0.13)	2.89 (0.04)			(0.35)		(0.12)		(0.03)		(0.12)
	Lebanon Lithuania		(0.35) (0.19)	6.01	(0.17) (0.16)		(0.32) (0.12)		(0.51)	5.32 (0.21) 4.36 (0.09)			(0.27)	4.86 4.35	(0.23)	6.15 C	(0.15) c	1.29	(0.27) C
	Macao (China)	С.	(O.1.5)	C	(0.1.0) C		(0.00)	С	(0.23) C	C C	6.22 (0.00)	С	(0.55) C		(0.01)		(0.00)	0.01	(0.01)
	Malta	7.21	(0.00)	6.70	(0.00)	m	m	m	m	6.61 (0.00)	6.97 (0.01)			С	С	6.77	(0.00)	С	С
	Moldova Montenegro	4.03 c	(0.18) C	4.94	(0.19)	4.67 2.17	(0.34) (0.03)	0.63 c	(0.38) C	4.40 (0.14) 3.44 (0.02)	C C		C C	4.41 3.45	(0.14) (0.65)		(0.45)	-0.25 -0.03	(0.46)
	Peru		(0.23)	2.95	(0.02)	3.64	(0.28)	1.72	(0.38)	2.62 (0.15)	3.15 (0.27)	0.53	(0.31)		(0.12)		(0.15)	0.62	(0.10)
	Qatar	6.19	(0.02)	7.08	(0.00)	6.91	(0.00)	0.73	(0.02)	7.33 (0.00)	6.44 (0.01)		(0.01)		(0.01)		(0.00)	0.19	(0.01)
	Romania Russia		(0.22)	5.91	(0.17)	5.81	(0.24)		(0.33)	5.75 (0.13)	СС	С	C	5.77	(0.13)	m	m	0.11	m (0.22)
	Singapore	4.27 m	(0.35) m	5.55 m	(0.20) m	6.43	(0.19) (0.01)	0.96 m	(0.43) m	5.20 (0.12) 6.31 (0.00)	c c 7.06 (0.08)		(0.08)	5.22 6.71	(0.13) (0.23)	5.11 6.36	(0.23)	-0.11 -0.34	(0.22)
	Chinese Taipei	С	С	4.37	(0.24)	4.99	(0.21)	С	С	4.91 (0.17)	4.33 (0.34)	-0.58	(0.37)	5.33	(0.20)	4.38	(0.21)	-0.95	(0.27)
	Thailand		(0.35)	3.81	(0.24)	4.96	(0.37)	1.63	(0.48)	3.94 (0.18)	4.19 (0.54)	0.24	(0.57)	3.47	(0.18)	4.17	(0.19)	0.70	(0.17)
	Trinidad and Tobago Tunisia		(0.04) (0.77)	4.74 3.67	(0.01)	4.17	m (0.27)	0.09	m (0.82)	4.61 (0.01) 3.77 (0.16)	5.66 (0.04) 6.87 (0.77)	1.05 3.09	(0.05) (0.78)	4.56 3.71	(0.02)		(0.01)	0.23	(0.03)
	United Arab Emirates		(0.77)		(0.21)	6.97	(0.27)		(0.82)	6.74 (0.14)					(0.22)		(0.22)		(0.20)
	Uruguay	5.73	(0.42)	5.88	(0.14)	5.65	(0.19)	-0.08	(0.45)	5.65 (0.11)	6.52 (0.29)	0.87	(0.31)	5.30	(0.16)	6.08	(0.11)	0.79	(0.18)
	Viet Nam		(0.22)	4.21	(0.36)	5.74	(0.30)		(0.37)	4.74 (0.18)			(0.77)		(0.27)		(0.19)	0.98	(0.31)
	Argentina**	2.71	(0.53)	3.78	(0.21)	4.40	(0.31)		(0.63)	3.78 (0.19)				4.04	(0.18)		(0.19)		(0.19)
	Kazakhstan** Malaysia**		(0.23)		(0.23)		(0.19)	0.61	(0.31)	6.08 (0.11) 6.08 (0.14)			(0.82)	6.01	(0.12)		(0.14)	0.17	(0.10) (0.25)
_	······································	5.70	(0.50)	3.33	(0.23)	0.27	(0.20)	0.70	(U.TJ)	0.00 (0.14)	3.15 (1.00)	0.00	(1.07)	0.11	(0.27)	0.02	(0.15)	0.03	(0.23)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS).

Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 3/3]

Table II.2.6 Index of science-specific resources, by student and school characteristics

				core per unit i		per	unit increa	of epistemic se on the ind cific resource	ex	in science-re	lated occu	of expecting pations per ur ice-specific re	it increas
		Before accor students' and socio-econon	d schools'	After accou students' an socio-econor	d schools'	Before acco students' ar socio-econo	nd schools'	After acco students' ar socio-econo	nd schools'	Before accor students' an socio-econor	d schools'	After accou students' an socio-econo	d schools
		Score dif.	S.E.	Score dif.	S.E.	Unit dif.	S.E.	Unit dif.	S.E.	Odds ratio	S.E.	Odds ratio	S.E.
0	Australia	6	(1.5)	2	(1.0)	0.01	(0.01)	0.00	(0.01)	1.05	(0.02)	1.03	(0.02)
OECD	Austria	9	(1.8)	5	(1.1)	0.04	(0.01)	0.01	(0.01)	1.20	(0.04)	1.19	(0.04)
0	Belgium	11	(2.4)	5	(1.5)	0.02	(0.01)	0.01	(0.01)	1.00	(0.05)	0.97	(0.04)
	Canada	2	(1.4)	0	(1.0)	0.00	(0.01)	0.00	(0.01)	1.05	(0.02)	1.04	(0.02)
	Chile	8	(1.3)	3	(1.2)	0.03	(0.01)	0.01	(0.01)	1.04	(0.02)	1.01	(0.02)
	Czech Republic	9	(1.7)	3 4	(1.0)	0.03	(0.01)	0.01	(0.01)	1.18	(0.03)	1.13	(0.03)
	Denmark Estonia	5 3	(1.8)	1	(1.5)	0.03 0.01	(0.01)	0.03 0.00	(0.01)	1.00 1.03	(0.02)	1.00 1.02	(0.02)
	Finland	3	(1.1)	0	(1.5)	0.01	(0.01)	0.00	(0.01)	1.03	(0.02)	1.02	(0.02)
	France	18	(2.2)	5	(1.6)	0.06	(0.01)	0.01	(0.01)	1.18	(0.03)	1.06	(0.03)
	Germany	8	(2.7)	2	(1.7)	0.03	(0.02)	0.00	(0.01)	1.03	(0.03)	0.99	(0.03)
	Greece	9	(2.6)	5	(1.7)	0.04	(0.02)	0.03	(0.01)	1.04	(0.02)	1.01	(0.02)
	Hungary	15	(2.0)	3	(1.4)	0.05	(0.01)	0.01	(0.01)	1.22	(0.04)	1.11	(0.04)
	Iceland	2	(0.9)	1	(0.9)	0.02	(0.01)	0.01	(0.01)	1.02	(0.02)	1.02	(0.02)
	Ireland	5	(1.7)	0	(1.1)	0.01	(0.01)	0.00	(0.01)	1.01	(0.02)	0.99	(0.03)
	Israel	8	(2.1)	5	(1.5)	0.03	(0.01)	0.02	(0.01)	1.09	(0.03)	1.09	(0.03)
	Italy	10	(2.0)	7	(1.4)	0.03	(0.01)	0.01	(0.01)	1.22	(0.05)	1.20	(0.04)
	Japan	11	(2.0)	2	(1.5)	0.05	(0.01)	0.00	(0.01)	1.10	(0.03)	1.04	(0.03)
	Korea	5	(2.3)	3	(1.7)	0.03	(0.01)	0.02	(0.01)	1.07	(0.04)	1.06	(0.04)
	Latvia	2	(1.1)	0	(0.9)	0.01	(0.01)	0.00	(0.01)	1.03	(0.02)	1.00	(0.02)
	Luxembourg	17	(0.8)	3	(0.9)	0.09	(0.01)	0.03	(0.01)	1.18	(0.03)	1.05	(0.03)
	Mexico	8	(0.9)	3	(0.8)	0.03	(0.01)	0.01	(0.01)	1.04	(0.01)	1.02	(0.02)
	Netherlands	18	(3.0)	6	(2.0)	0.06	(0.01)	0.02	(0.01)	1.12	(0.05)	1.04	(0.04)
	New Zealand	5	(2.3)	1	(1.6)	0.00	(0.02)	-0.02	(0.01)	1.03	(0.03)	1.00	(0.03)
	Norway	2	(1.2)	0	(1.1)	0.01	(0.01)	0.01	(0.01)	1.00	(0.02)	0.99	(0.02)
	Poland	1	(1.6)	0	(1.2)	0.00	(0.01)	0.00	(0.01)	1.00	(0.03)	0.99	(0.02)
	Portugal Slovak Republic	7	(2.3)	6	(1.5)	0.04	(0.01)	0.02	(0.01)	1.13	(0.04)	1.09	(0.04)
	Slovenia	10	(1.8)	2 4	(1.5)	0.03 0.02	(0.01)	0.01	(0.01)	1.18 1.17	(0.04)	1.13 1.16	(0.04)
	Spain	3	(0.7)	0	(0.6)	0.02	(0.01)	0.00	(0.01)	1.01	(0.02)	0.99	(0.02)
	Sweden	3	(2.2)	1	(1.5)	0.01	(0.01)	0.00	(0.01)	1.02	(0.02)	1.02	(0.01)
	Switzerland	13	(2.2)	7	(1.7)	0.02	(0.02)	0.01	(0.01)	1.12	(0.02)	1.02	(0.02)
	Turkey	10	(2.1)	4	(1.9)	0.07	(0.02)	0.03	(0.01)	1.16	(0.03)	1.10	(0.03)
	United Kingdom	2	(2.0)	1	(1.2)	0.02	(0.01)	0.02	(0.01)	1.02	(0.03)	1.01	(0.03)
	United States	2	(2.2)	0	(1.5)	0.02	(0.01)	0.00	(0.01)	1.02	(0.02)	1.01	(0.03)
	OECD average	8	(0.3)	3	(0.2)	0.03	(0.00)	0.01	(0.00)	1.08	(0.01)	1.05	(0.00)
	OLCD average	0	(0.5)	, ,	(0.2)	0.03	(0.00)	0.01	(0.00)	1.00	(0.01)	1.05	(0.00)
2	Albania	m	m	m	m	0.02	(0.01)	0.02	(0.01)	0.98	(0.02)	0.99	(0.02)
Ĕ.	Algeria	1	(2.0)	-1	(1.7)	0.01	(0.01)	0.01	(0.01)	1.08	(0.03)	1.04	(0.02)
Partners	Brazil	10	(1.3)	5	(1.0)	0.04	(0.01)	0.02	(0.01)	1.04	(0.01)	1.01	(0.01)
_	B-S-J-G (China)	14	(3.0)	1	(2.4)	0.06	(0.01)	0.01	(0.01)	1.09	(0.03)	1.04	(0.03)
	Bulgaria	15	(2.9)	3	(1.8)	0.05	(0.01)	0.01	(0.01)	1.17	(0.04)	1.09	(0.04)
	CABA (Argentina)	10	(2.5)	-1	(1.5)	0.03	(0.02)	-0.02	(0.02)	0.97	(0.04)	0.93	(0.04)
	Colombia	8	(1.9)	2	(1.3)	0.03	(0.01)	0.01	(0.01)	0.98	(0.02)	0.98	(0.02)
	Costa Rica	0	(1.7)	0	(0.8)	0.00	(0.01)	0.00	(0.01)	1.00	(0.02)	1.00	(0.02)
	Croatia	5	(1.6)	2	(1.1)	0.02	(0.01)	0.01	(0.01)	1.13	(0.03)	1.11	(0.03)
	Cyprus*	8	(0.9)	2	(0.8)	0.04	(0.01)	0.01	(0.01)	1.03	(0.02)	1.00	(0.02)
	Dominican Republic		(1.5)	3	(1.1)	0.03	(0.01)	0.01	(0.01)	1.03	(0.01)	1.02	(0.01)
	FYROM	3	(0.6)	3	(0.6)	0.03	(0.01)	0.03	(0.01)	1.08	(0.02)	1.09	(0.01)
	Georgia Hong Kong (China)	3 0	(1.8)	-2 -2	(1.1)	0.01	(0.01)	-0.01 -0.01	(0.01)	1.04 0.98	(0.02)	1.03 0.97	(0.02)
	Indonesia	9	(1.4)	4	(1.0)	0.00	(0.01)	0.01	(0.01)	1.10	(0.03)	1.04	(0.03)
	Jordan	5	(1.7)	2	(1.6)	0.02	(0.01)	0.01	(0.01)	1.07	(0.03)	1.04	(0.03)
	Kosovo	7	(1.0)	3	(0.9)	0.02	(0.01)	-0.01	(0.01)	1.10	(0.03)	1.05	(0.02)
	Lebanon	9	(2.1)	3	(2.0)	0.02	(0.01)	0.01	(0.02)	1.05	(0.03)	1.01	(0.03)
	Lithuania	7	(2.1)	1	(1.4)	0.04	(0.01)	0.01	(0.01)	1.06	(0.02)	1.01	(0.02)
	Macao (China)	4	(0.6)	4	(0.6)	0.01	(0.01)	0.01	(0.01)	1.02	(0.02)	1.02	(0.02)
	Malta	15	(1.2)	8	(1.2)	0.04	(0.01)	0.02	(0.01)	1.13	(0.03)	1.07	(0.03)
	Moldova	3	(1.5)	0	(1.0)	0.01	(0.01)	0.00	(0.01)	1.08	(0.03)	1.04	(0.03)
	Montenegro	-3	(0.5)	-1	(0.5)	0.00	(0.01)	0.01	(0.01)	1.08	(0.01)	1.10	(0.01)
	Peru	8	(1.4)	0	(0.8)	0.04	(0.01)	0.01	(0.01)	1.03	(0.02)	0.98	(0.02)
	Qatar	-1	(0.6)	-2	(0.6)	0.00	(0.01)	-0.01	(0.01)	0.99	(0.01)	0.98	(0.01)
	Romania	5	(1.8)	2	(1.4)	0.02	(0.01)	0.01	(0.02)	1.15	(0.05)	1.11	(0.04)
	Russia	6	(1.5)	4	(1.1)	0.02	(0.01)	0.01	(0.01)	1.08	(0.02)	1.08	(0.02)
	Singapore	8	(1.1)	2	(1.2)	0.04	(0.01)	0.02	(0.01)	1.03	(0.02)	1.01	(0.02)
	Chinese Taipei	11	(1.5)	3	(1.0)	0.05	(0.01)	0.02	(0.01)	1.14	(0.03)	1.09	(0.03)
	Thailand	8	(1.5)	2	(1.3)	0.03	(0.01)	0.01	(0.01)	1.09	(0.02)	1.01	(0.02)
	Trinidad and Tobago	5	(0.6)	2	(0.6)	0.02	(0.01)	0.01	(0.01)	1.04	(0.02)	1.02	(0.02)
	Tunisia	1	(1.5)	-1	(1.4)	0.02	(0.01)	0.01	(0.01)	0.99	(0.02)	0.97	(0.02)
	United Arab Emirates	5	(2.5)	2	(1.8)	0.01	(0.01)	0.00	(0.01)	1.03	(0.02)	1.03	(0.02)
	Uruguay	8	(1.8)	3	(1.1)	0.03	(0.01)	0.01	(0.01)	1.11	(0.02)	1.07	(0.02)
	Viet Nam	10	(1.9)	5	(1.7)	0.06	(0.01)	0.04	(0.01)	1.09	(0.03)	1.07	(0.03)
	Argentina**	8	(1.2)	4	(1.1)	0.04	(0.01)	0.02	(0.01)	1.06	(0.02)	1.01	(0.02)
	Kazakhstan**	3	(2.2)	1	(1.7)	0.03	(0.01)	0.02	(0.01)	1.01	(0.02)	1.00	(0.02)
	Malaysia**	4	(1.5)	2	(1.2)	0.03	(0.01)	0.02	(0.01)	1.06	(0.02)	1.04	(0.03)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex:

* Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/1]

Table II.2.8 Science teaching staff

Results based on school principals' reports

		In schools attended by 15-ye	ar-olds, percentage of science teachers	
	Fully certified by the	appropriate authority	With a university degree (ISCED	level 5A) and a major in science
	%	S.E.	%	S.E.
Australia	97.2	(0.5)	93.5	(0.6)
Austria	80.8	(1.9)	64.9	(2.3)
Belgium	84.6	(1.8)	47.4	(1.3)
Canada	96.9	(0.7)	81.1	(1.9)
Chile	25.6	(2.6)	75.2	(3.0)
Czech Republic	92.4	(1.0)	66.4	(2.3)
Denmark	m	m	84.7	(2.5)
Estonia	89.9	(1.1)	75.5	(2.0)
Finland	95.2	(1.1)	86.6	(2.4)
France	82.2	(1.4)	84.8	(2.5)
Germany	75.1	(2.9)	72.3	(3.6)
Greece	92.7	(2.3)	45.5	(3.6)
Hungary	m eo F	m (0.2)	91.1	(1.7)
Iceland Ireland	89.5 97.2	(0.2)	45.4 91.3	(0.2)
Israel	81.5	(3.0)	80.2	(1.6)
Italy	91.9	(1.1)	4.7	(0.7)
Japan	98.0	(0.7)	4.7 m	(0.7) m
Korea	95.5	(1.6)	88.6	(2.3)
Latvia	72.5	(2.1)	79.0	(1.7)
Luxembourg	71.7	(0.0)	75.6	(0.1)
Mexico	33.3	(3.2)	66.9	(2.7)
Netherlands	82.0	(3.0)	29.3	(3.0)
New Zealand	94.4	(1.0)	92.5	(1.3)
Norway	m	m	61.0	(2.2)
Poland	93.0	(1.8)	90.2	(2.5)
Portugal	95.0	(1.2)	88.1	(2.4)
Slovak Republic	97.2	(0.8)	64.1	(2.7)
Slovenia	97.5	(0.2)	90.2	(0.3)
Spain	95.6	(1.5)	82.0	(2.3)
Sweden	83.8	(1.9)	76.0	(2.4)
Switzerland	75.3	(3.0)	70.2	(2.9)
Turkey	44.8	(4.2)	77.7	(3.4)
United Kingdom	95.7	(1.1)	93.2	(1.6)
United States	94.4	(1.3)	92.7	(1.2)
OECD average	84.1	(0.3)	73.8	(0.4)
Albania	95.5	(1.2)	71.7	(3.2)
Algeria	88.6	(2.1)	37.6	(3.2)
Brazil	88.3	(1.6)	33.0	(2.6)
B-S-J-G (China)	96.6	(0.9)	84.3	(1.8)
Bulgaria	98.4	(0.8)	97.8	(0.7)
CABA (Argentina)	89.6	(4.1)	34.2	(4.4)
Colombia	7.3	(1.4)	82.4	(2.5)
Costa Rica	92.3	(1.5)	96.9	(0.8)
Croatia	94.5	(1.4)	89.7	(2.0)
Cyprus*	99.6	(0.0)	92.1	(0.1)
Dominican Republic	m	(0.0) m	60.8	(3.4)
FYROM	68.6	(0.1)	69.3	(0.2)
Georgia	34.0	(1.9)	70.5	(3.0)
Hong Kong (China)	95.8	(1.4)	91.1	(1.6)
Indonesia	63.9	(2.5)	86.3	(2.0)
Jordan	81.2	(2.4)	83.5	(2.6)
Kosovo	88.1	(1.0)	74.7	(1.1)
Lebanon	71.1	(3.2)	71.6	(3.0)
Lithuania	99.4	(0.3)	94.5	(1.2)
Macao (China)	98.5	(0.0)	92.8	(0.0)
Malta	84.1	(0.0)	79.5	(0.1)
Moldova	70.2	(2.3)	50.4	(2.9)
Montenegro	95.3	(0.1)	96.3	(0.3)
Peru	90.2	(1.2)	20.8	(2.2)
Qatar	76.7	(0.1)	29.8	(0.1)
Romania	98.6	(0.8)	86.7	(2.3)
Russia	93.7	(2.0)	92.7	(1.8)
Singapore	93.5	(1.6)	88.8	(0.1)
Chinese Taipei	92.5	(1.2)	92.7	(1.6)
Thailand	95.7	(1.0)	87.0	(2.1)
Trinidad and Tobago	65.4	(0.2)	79.1	(0.2)
Tunisia	95.2	(1.9)	79.0	(3.7)
United Arab Emirates	81.0	(1.7)	91.2	(1.7)
Uruguay	71.7	(1.7)	6.2	(0.9)
Viet Nam	84.5	(3.2)	92.4	(1.8)
VICTIVALII				
	87.8	(2.2)	32.7	(2.1)
Argentina** Kazakhstan**	87.8 86.9	(2.2) (2.2)	32.7 68.3	(2.1) (3.4)

Note: In Chile the question about the certification of teachers was adapted as "authorised or enabled by the Ministry of Education".
* See note at the beginning of this Annex.
** Coverage is too small to ensure comparability (see Annex A4).
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[Part 1/3]

Table II.2.10 Qualified science teachers, by student and school characteristics

							(ISCLD IC	vei Ja, aii	u a major i	n science i				uius
			udents			, 0			ool socio-e		-		, ,	
	Ave	rage		bility	Bottom	quarter	Second	quarter		quarter		uarter	Top - I	ootton
	%	S.E.	S.D.	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	% dif.	S.I
Australia	93.5	(0.6)	15.5	(1.1)	90.7	(1.4)	93.6	(1.4)	93.6	(1.0)	96.0	(1.1)	5.3	(1.8
Austria	64.9	(2.3)	44.4	(0.9)	36.1	(5.1)	53.4	(7.0)	86.6	(4.4)	82.9	(5.4)	46.8	(7.4
Belgium	47.4	(1.3)	22.7	(1.1)	36.9	(2.5)	47.6	(3.6)	51.7	(2.9)	52.2	(3.2)	15.3	(4.
Canada	81.1	(1.9)	30.8	(1.6)	75.4	(5.3)	80.8	(3.7)	81.8	(3.5)	85.5	(3.6)	10.0	(6.
Chile	75.2	(3.0)	36.2	(2.2)	80.3	(7.1)	71.8	(6.4)	67.4	(7.2)	81.3	(5.0)	1.0	(8.
Czech Republic	66.4	(2.3)	39.8	(0.8)	61.3	(4.9)	67.0	(4.9)	65.7	(5.2)	71.3	(4.8)	9.9	(6.
Denmark	84.7	(2.5)	31.7	(2.6)	84.6	(4.6)	87.7	(4.6)	82.8	(5.0)	84.0	(6.1)	-0.6	(7.
Estonia	75.5	(2.0)	32.5	(1.3)	65.7	(4.9)	78.4	(4.8)	76.8	(3.2)	81.6	(3.5)	16.0	(6.
Finland	86.6	(2.4)	29.1	(2.9)	80.6	(6.1)	93.1	(5.0)	84.3	(5.8)	88.6	(3.9)	8.1	(6.9
France	84.8 72.3	(2.5)	30.3 42.1	(2.6)	81.3	(5.0)	79.8 69.7	(5.6)	86.2	(5.8)	89.8 82.6	(4.5)	8.5 21.5	(6.8
Germany Greece	45.5	(3.6)	40.2	(1.9)	61.1 38.6	(7.1)	47.4	(8.0)	75.5 53.1	(6.7) (7.4)	43.3	(6.1)	4.6	(9.4
Hungary	91.1	(1.7)	25.4	(2.5)	88.7	(4.3)	88.2	(4.4)	92.1	(3.4)	95.2	(3.1)	6.6	(5.2
Iceland	45.4	(0.2)	42.2	(0.1)	30.8	(0.6)	44.9	(1.1)	50.5	(0.9)	53.7	(0.5)	22.9	(0.
Ireland	91.3	(1.6)	18.1	(2.5)	95.6	(2.2)	91.2	(4.9)	84.9	(4.9)	93.2	(2.2)	-2.5	(3.
Israel	80.2	(2.6)	32.8	(2.4)	84.7	(5.2)	74.6	(7.7)	76.3	(7.6)	83.9	(5.5)	-0.8	(7.
Italy	4.7	(0.7)	13.7	(1.6)	8.8	(2.5)	7.1	(2.2)	3.1	(0.7)	1.1	(0.4)	-7.6	(2.
Japan	m	m	m	m	m	(2.5) m	m	(2.2) m	m	(0.7) m	m	(0.4) m	m	(∠.
Korea	88.6	(2.3)	28.2	(2.8)	86.5	(5.3)	93.8	(3.8)	86.0	(4.7)	88.2	(4.6)	1.6	(7.
Latvia	79.0	(1.7)	30.4	(1.4)	72.8	(4.9)	78.6	(4.6)	81.1	(3.6)	83.4	(3.3)	10.7	(5.
Luxembourg	75.6	(0.1)	35.6	(0.1)	67.4	(0.2)	68.9	(0.2)	89.1	(0.1)	76.5	(0.1)	9.1	(0.
Mexico	66.9	(2.7)	40.5	(1.0)	59.8	(5.6)	69.7	(5.8)	66.5	(7.3)	71.6	(6.6)	11.8	(8.
Netherlands	29.3	(3.0)	28.5	(1.9)	19.5	(6.2)	15.1	(7.9)	30.2	(9.1)	47.9	(4.3)	28.4	(7.
New Zealand	92.5	(1.3)	16.1	(2.5)	89.3	(3.7)	92.0	(4.5)	93.2	(2.8)	94.8	(3.3)	5.6	(5.
Norway	61.0	(2.2)	31.4	(1.1)	50.4	(4.3)	59.3	(6.0)	61.3	(5.0)	73.0	(5.0)	22.7	(6.
Poland [´]	90.2	(2.5)	28.8	(3.3)	93.6	(5.2)	88.6	(6.5)	89.3	(5.4)	89.3	(5.2)	-4.3	(6.
Portugal	88.1	(2.4)	28.1	(3.0)	89.0	(3.6)	86.4	(4.8)	91.1	(4.7)	86.1	(5.5)	-2.9	(6.
Slovak Republic	64.1	(2.7)	42.6	(0.9)	58.0	(5.3)	64.3	(6.6)	68.4	(6.7)	65.8	(6.3)	7.9	(7.
Slovenia	90.2	(0.3)	23.6	(0.4)	88.6	(1.0)	94.4	(0.5)	88.4	(0.9)	89.9	(0.5)	1.3	(1.
Spain	82.0	(2.3)	34.9	(2.0)	86.0	(6.1)	75.4	(6.6)	80.2	(5.8)	86.4	(3.8)	0.5	(6.
Sweden	76.0	(2.4)	33.3	(1.9)	74.1	(5.1)	78.9	(5.3)	73.0	(7.2)	78.0	(5.1)	3.9	(6.
Switzerland	70.2	(2.9)	37.0	(1.6)	59.3	(7.0)	58.5	(7.0)	72.8	(5.2)	89.6	(4.9)	30.3	(8.
Turkey	77.7	(3.4)	39.3	(2.3)	77.6	(5.8)	76.6	(7.4)	82.2	(7.2)	74.5	(7.6)	-3.1	(9.
United Kingdom	93.2	(1.6)	19.7	(2.9)	91.6	(3.1)	87.8	(6.4)	96.4	(1.5)	96.4	(2.4)	4.8	(3.
United States	92.7	(1.2)	19.1	(2.0)	95.0	(2.0)	92.6	(3.2)	96.4	(2.4)	86.9	(2.8)	-8.1	(3.
OECD average	73.8	(0.4)	30.7	(0.3)	69.4	(0.8)	72.3	(0.9)	75.2	(0.9)	77.8	(0.8)	8.4	(1.
Albania	71.7	(3.2)	41.8	(1.5)	64.7	(8.0)	75.0	(6.9)	72.1	(9.8)	74.3	(6.8)	9.5	(9.
Algeria	37.6	(3.2)	39.1	(1.4)	40.5	(8.2)	33.5	(7.0)	33.4	(6.4)	43.0	(7.4)	2.5	(11.
Brazil	33.0	(2.6)	42.2	(1.2)	21.0	(3.8)	27.0	(4.5)	39.1	(6.0)	44.0	(5.1)	23.0	(6.
B-S-J-G (China)	84.3	(1.8)	25.4	(1.8)	70.8	(4.0)	75.7	(5.0)	94.6	(4.9)	96.1	(1.4)	25.3	(4
Bulgaria	97.8	(0.7)	10.8	(2.4)	93.2	(2.8)	99.3	(0.6)	99.9	(0.1)	98.8	(0.9)	5.6	(2
CABA (Argentina)	34.2	(4.4)	28.2	(2.6)	21.5	(5.0)	26.5	(6.8)	30.7	(7.3)	52.0	(11.5)	30.5	(12
Colombia	82.4	(2.5)	33.9	(2.3)	81.9	(5.9)	81.4	(5.7)	83.5	(5.4)	82.6	(4.9)	0.7	(7
Costa Rica	96.9	(0.8)	10.3	(2.4)	95.7	(2.5)	96.5	(1.7)	96.0	(1.6)	99.3	(0.7)	3.6	(2
Croatia	89.7	(2.0)	27.8	(2.8)	82.7	(5.1)	95.4	(4.3)	94.4	(4.1)	86.7	(6.2)	4.0	(8
Cyprus*	92.1	(0.1)	22.1	(0.1)	84.4	(0.3)	95.6	(0.1)	99.5	(0.1)	89.6	(0.1)	5.3	(0
Dominican Republic	60.8	(3.4)	42.5	(1.2)	45.4	(7.6)	67.9	(6.3)	67.1	(6.9)	63.9	(7.8)	18.5	(10
FYROM	69.3	(0.2)	43.1	(0.1)	59.5	(0.3)	71.0	(0.3)	69.0	(0.5)	79.7	(0.2)	20.2	(0
Georgia	70.5	(3.0)	41.9	(1.5)	69.5	(5.0)	68.8	(7.0)	68.3	(5.5)	75.4	(7.2)	5.8	(8
Hong Kong (China)	91.1	(1.6)	18.9	(2.5)	87.0	(5.1)	90.5	(4.8)	95.3	(1.9)	91.9	(3.1)	4.9	(5
Indonesia	86.3	(2.0)	28.5	(2.2)	75.1	(6.1)	88.1	(3.7)	88.3	(3.4)	92.6	(3.2)	17.5	(6
Jordan	83.5	(2.6)	33.4	(2.4)	76.9	(6.7)	89.5	(5.9)	86.9	(4.5)	80.7	(4.1)	3.8	(8
Kosovo	74.7	(1.1)	37.4	(0.7)	88.2	(3.1)	70.3	(2.0)	80.0	(2.5)	61.3	(1.9)	-27.0	(3
Lebanon	71.6	(3.0)	36.7	(1.7)	70.2	(6.4)	66.0	(6.2)	72.5	(7.3)	78.9	(7.1)	8.7	(10
Lithuania	94.5	(1.2)	20.7	(2.3)	91.3	(3.8)	90.2	(3.6)	98.7	(2.3)	97.9	(2.0)	6.6	(4
Macao (China)	92.8	(0.0)	22.3	(0.1)	84.3	(0.2)	93.5	(0.1)	97.3	(0.0)	96.1	(0.1)	11.7	(0
Malta	79.5	(0.1)	33.1	(0.1)	81.8	(0.1)	96.0	(0.1)	58.2	(0.3)	82.5	(0.1)	0.6	(0
Moldova	50.4	(2.9)	43.1	(0.6)	42.8	(5.8)	51.6	(6.5)	56.2	(6.6)	50.9	(7.6)	8.1	(9
Montenegro	96.3	(0.3)	12.8	(0.7)	90.5	(1.2)	97.8	(0.1)	98.7	(0.3)	98.4	(0.2)	7.9	(1
Peru	20.8	(2.2)	33.1	(1.8)	22.8	(4.5)	19.7	(4.5)	20.3	(4.8)	20.5	(4.7)	-2.3	(6
Qatar	29.8	(0.1)	32.5	(0.0)	19.4	(0.2)	30.3	(0.2)	29.9	(0.2)	40.7	(0.1)	21.3	(0.
Romania	86.7	(2.3)	29.6	(2.5)	90.6	(4.5)	87.6	(5.4)	85.7	(5.0)	82.8	(6.2)	-7.8	(8.
Russia	92.7	(1.8)	22.7	(3.2)	88.3	(3.2)	92.7	(5.3)	92.5	(4.5)	97.0	(3.1)	8.7	(4.
Singapore	88.8	(0.1)	24.9	(0.1)	81.8	(0.2)	89.4	(0.3)	89.3	(0.3)	94.1	(0.2)	12.2	(0.
Chinese Taipei	92.7	(1.6)	22.3	(2.7)	90.6	(3.4)	87.8	(5.0)	96.0	(2.6)	96.4	(3.3)	5.7	(4.
Thailand	87.0	(2.1)	28.7	(2.5)	89.7	(5.1)	86.4	(5.5)	81.5	(5.1)	90.3	(3.8)	0.6	(6.
Trinidad and Tobago	79.1	(0.2)	32.0	(0.1)	84.9	(0.4)	77.3	(0.4)	75.7	(0.3)	78.0	(0.1)	-6.9	(0.
Tunisia	79.0	(3.7)	38.2	(2.9)	62.4	(9.3)	84.6	(7.2)	83.2	(6.5)	85.1	(8.1)	22.7	(11.
United Arab Emirates	91.2	(1.7)	23.5	(2.8)	91.4	(5.2)	94.0	(4.0)	91.7	(3.3)	87.2	(3.3)	-4.2	(6.
Uruguay	6.2	(0.9)	11.7	(2.2)	5.0	(1.7)	3.4	(1.2)	6.9	(2.5)	9.5	(1.5)	4.5	(2
	92.4	(1.8)	21.3	(2.7)	90.0	(3.3)	96.9	(1.9)	89.7	(5.6)	93.1	(3.1)	3.0	(4.
Viet Nam Argentina** Kazakhstan**	32.7 68.3	(2.1)	33.5 44.8	(1.3) (1.4)	28.2 64.6	(4.7) (6.9)	29.2 54.0	(5.3) (7.1)	37.2 71.3	(6.5) (8.2)	36.1 83.0	(5.1) (5.8)	7.9 18.5	(7.

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS).

Notes: Values that are statistically significant are indicated in bold (see Annex A3).

Qualified science teachers are those with ISCED Level 5A and a major in science.

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 2/3]

Table II.2.10 Qualified science teachers, by student and school characteristics

			Percent			teachers	with a	univer	sity deg	ree (ISC	CED le	vel 5A)	and a	major i	in scien	ce in sc	hools at	tended	by 15-v	ear-olds	ş
				n.															-, ,	-	
				В	/ schoo	l locatio	n				В	y type o	of sch	ool			В	y educa	tion lev	el	
		or vi	l area Illage er than people)	Tov (3 (to 10(peo	000	Cit (over 10 peop	000 00		ty – I area	Puk	olic	Priva	ite		ate – blic	seco	wer ndary cation ED 2)	seco educ	per ndary cation ED 3)		ED 3 - ED 2
		%	S.E.	%	S.E.	%	S.E.	% dif.		%	S.E.		S.E.	% dif.	S.E.	%	S.E.	%	S.E.	% dif.	
ECD	Australia	90.4	(2.2)	92.6	(1.5)	93.9	(0.6)	3.4	(2.2)		(0.7)		(0.9)	-1.4	(1.1)	94.1	(0.5)	89.5	(1.3)	-4.6	(1.2)
OE	Austria Belgium	39.0 52.4	(9.7) (5.3)	70.4 46.0	(3.5)	61.7 51.5	(4.4) (2.1)	22.7 -0.9	(10.7)	62.7 w	(2.4) W	74.8 w	(8.7) W	12.0 w	(9.0) W	17.4 36.4	(7.1)	65.9 48.4	(2.4)	48.4 12.0	(7.5)
	Canada	73.3	(7.5)	80.4	(2.8)	82.8	(2.4)	9.5	(8.2)		(2.0)		(4.8)	4.7	(5.1)	81.9	(2.7)	81.0	(1.9)	-1.0	(2.8)
	Chile	19.3	(14.9)	81.3	(4.7)	73.7	(4.0)	54.4	(15.3)	71.3	(5.5)		(3.7)	5.9	(6.6)	49.5	(9.2)	76.7	(3.1)	27.3	(9.4)
	Czech Republic	68.7	(5.4)	69.7	(3.2)	57.9	(4.6)	-10.8	(7.5)		(2.6)		(5.8)	2.2	(6.7)	63.8	(3.7)	69.5	(3.0)	5.7	(4.9)
	Denmark Estonia	84.6 65.1	(5.7) (5.7)	87.0 82.1	(2.8)	76.4 74.2	(6.4)	-8.2 9.1	(8.3)	84.1 75.4	(2.8)		(4.5) (8.2)	2.3 0.4	(4.8)	85.0 75.4	(2.5)	82.1	(3.7)	6.7	(4.0)
	Finland	84.7	(4.6)	85.9	(3.2)	89.1	(4.1)	4.4	(6.3)	87.2	(2.3)		11.4)	-3.0	(11.6)	86.6	(2.4)	02.1 C	(3.7) C	0.7 C	(4.0) C
	France	96.7	(3.0)	84.4	(2.8)	82.8	(5.8)	-13.9	(6.6)		(2.9)		(6.1)	-1.0	(6.8)	79.0	(4.1)	86.6	(3.0)	7.6	(4.9)
	Germany	96.1	(2.1)	66.9	(4.7)	78.8	(5.7)	-17.4	(5.9)		(3.8)		(3.9)	25.5	(5.4)	72.6	(3.6)	65.8	(14.0)	-6.8	(13.5)
	Greece	56.9	(10.5)	41.1 88.9	(4.9)	52.0 93.9	(5.2)		(11.8)	44.7 89.9		59.9 (15.2	(13.8)	58.5	(8.7)	44.9	(3.7)	-13.6	(9.0)
	Hungary Iceland	90.8	(5.4)	46.6	(2.6)	48.3	(2.3)	3.1 10.8	(5.8)		(1.9)	96.1 c	(2.5) C	6.2	(3.0) C	84.4 45.4	(4.7)	91.9 m	(1.9) m	7.5 m	(5.2) m
	Ireland	88.5	(3.9)	92.1	(2.0)	91.8	(3.2)	3.3	(5.1)	91.8			(2.2)	-0.7	(3.3)	91.0	(1.7)	91.8	(1.7)	0.8	(0.6)
	Israel	77.0	(5.5)	84.2	(3.4)	76.5	(4.9)	-0.4	(7.4)	m	m	m	m	m	m	83.5	(4.3)	79.8	(2.8)	-3.7	(4.9)
	Italy	7.1	(6.2)	4.6	(0.8)	4.7	(1.7)	-2.4	(6.5)	3.7	(0.6)	25.2	(9.8)	21.5	(10.0)	0.8	(0.6)	4.7	(0.7)	3.9	(0.9)
	Japan Korea	С	c c	82.0	(8.5)	89.6	(2.3)	C C	C C	91.9	(2.4)	82.4	(4.9)	-9.6	(5.5)	m 86.5	m (7.2)	88.9	(2.5)	2.4	(7.6)
	Latvia	69.3	(4.9)	81.1	(2.0)	82.7	(2.7)	13.3	(5.5)		(1.7)	72.2 (-6.9	(18.3)	79.3	(1.8)	72.8	(5.4)	-6.4	(5.5)
	Luxembourg	m	m	85.4	(0.1)	64.4	(0.1)	m	m		(0.1)		(0.2)	-9.1	(0.2)	73.4	(0.1)	78.3	(0.1)	4.9	(0.2)
	Mexico	59.4	(6.8)	66.3	(4.2)	69.5	(4.1)	10.1	(8.0)		(2.8)		(6.9)	9.7	(7.2)	70.5	(4.0)	64.6	(3.6)	-5.9	(5.5)
	Netherlands New Zealand	94.5	(2.8)	25.3 88.8	(3.1)	40.4 95.4	(7.1) (1.3)	1.0	(2.9)		(6.2) (1.4)		(3.0)	-10.4 6.3	(6.9)	21.5 90.8	(3.2)	47.5 92.6	(3.9)	26.1 1.8	(4.4)
	Norway	44.0	(5.7)	62.4	(2.9)	73.8	(4.8)	29.8	(7.7)	61.6		46.4 (-15.2	(14.1)	61.0	(2.2)	C C	(1.5) C	С.	(1.0) C
	Poland [']	90.1	(4.1)	92.0	(3.6)	87.2	(5.4)	-2.9	(6.8)		(2.5)	81.6 (-8.9	(20.0)	90.1	(2.5)	С	С	С	С
	Portugal	62.9	(13.9)	88.6	(2.6)	90.0	(4.4)	27.1	(14.7)	88.5		81.4 (-7.1	(10.5)	89.2	(3.3)	87.5	(2.8)	-1.7	(3.9)
	Slovak Republic Slovenia	55.6 90.5	(4.6)	65.2 89.3	(3.4)	69.9 92.3	(6.9) (0.5)	14.3	(8.5)		(2.9)		(7.6) (0.2)	-0.4 6.0	(8.1)	61.9 76.7	(3.5)	66.2 91.0	(4.0)	4.3 14.4	(5.3) (5.4)
	Spain	88.2	(9.1)	82.8	(3.2)	79.9	(4.2)		(10.2)		(3.0)		(3.5)	2.5	(4.8)	82.0	(2.3)	71.0 C	(U.1)	С С	(J. T)
	Sweden	72.4	(10.5)	75.7	(3.0)	77.8	(4.4)		(11.4)	77.1			(6.4)	-6.3	(6.9)	76.0	(2.4)	74.4	(18.7)	-1.6	(18.7)
	Switzerland	82.1	(5.2)	67.1	(3.5)	76.5	(6.5)	-5.6	(8.2)		(3.1)		(5.8)	20.0	(6.4)	68.2	(3.3)	78.5	(5.2)	10.3	(5.9)
	Turkey United Kingdom	54.1 96.2	(28.0)	78.6 95.6	(5.8)	77.6 85.4	(4.3)	23.4 -10.8	(28.3)		(3.4)	75.4 (° 99.9	(0.0)	-2.4 7.2	(19.6)	75.1 98.7	(12.8)	77.8 93.2	(3.4)	2.8 -5.5	(13.3)
	United States	93.5	(3.0)	92.6	(1.8)	92.7	(2.6)	-0.9	(4.0)		(1.1)		(8.3)	-14.3	(8.4)	92.5	(1.9)	92.7	(1.1)	0.2	(1.5)
	OECD average	70.4	(1.5)	74.2	(0.6)	74.6	(0.7)	5.1	(1.7)	73.6	(0.5)	76.2	(1.5)	1.7	(1.6)	70.6	(0.8)	74.5	(1.0)	4.9	(1.3)
	AII .	F0.4	(7.5)	60.0	(F. 2)	07.1	(2.4)	0==	(0.1)		(2 E)	07.6	(4.6)	40.4	(F 7)	70.5	(F. 2)	70.4	(2.6)	1.0	(F. O)
Partners	Albania Algeria	59.4 34.5	(7.5) (10.4)	68.0 34.3	(5.2)	87.1 49.9	(3.4)	27.7 15.4	(8.1) (11.8)	69.5 37.1	(3.5)	87.6 c	(4.6)	18.1	(5.7) C	70.5 35.6	(5.3)	72.4 44.1	(3.6)	1.8 8.4	(5.9) (7.5)
artr	Brazil	33.9	(9.8)	29.7	(3.8)	36.4	(3.3)	2.5	(10.3)		(2.7)		(5.8)	22.0	(6.4)	33.6	(3.6)	32.8	(2.8)	-0.8	(3.6)
9	B-S-J-G (China)	75.0	(6.4)	81.3	(2.8)	92.0	(2.0)	17.0	(6.7)	86.4		67.8	(7.5)	-18.6	(8.0)	79.4	(2.2)	92.6	(2.8)	13.2	(3.3)
	Bulgaria	82.1	(8.0)	98.2	(1.0)	98.7	(0.8)	16.6	(8.1)	97.8		C 27.1	(C O)	C	(O, O)	89.8	(6.3)	98.1	(0.7)	8.2	(6.3)
	CABA (Argentina) Colombia	75.5	(6.6)	86.9	(4.2)	34.7 83.2	(4.6)	7.6	m (7.3)	31.4 84.4	(5.8)		(6.9) (5.8)	5.7 -9.7	(8.9)	32.3 81.9	(4.3)	55.6 82.7	(9.7)	23.2 0.8	(9.4)
	Costa Rica	98.1	(1.1)	96.4	(1.1)	96.9	(1.4)	-1.3	(1.8)		(0.6)		(4.8)	-8.7	(4.9)	96.6	(0.8)	97.2	(0.9)	0.6	(0.4)
	Croatia	С	С	89.7	(2.6)	90.1	(3.1)	С	С		(2.0)	С	С	С	С	С	С	89.7	(2.0)	С	С
	Cyprus*	96.9	(0.0)	92.5	(0.1)	90.8	(0.1)	-6.2	(0.1)		(0.1)		(0.1)	-5.6	(0.1)	81.5	(0.9)	92.8	(0.1)	11.3	(0.9)
	Dominican Republic FYROM	60.6 34.2	(9.1)	57.7 72.3	(4.5) (0.2)	67.7 67.6	(6.3)	7.1 33.4	(10.9)	60.8			(8.2) (0.5)	0.1 17.5	(8.9)	26.8 c	(5.6) C	70.0 69.3	(3.8) (0.2)	43.3	(6.7) C
	Georgia	72.8	(4.2)	66.2	(6.5)	71.1	(5.5)	-1.7	(6.9)	69.3			(8.0)	11.3	(8.4)	67.5	(4.0)	71.3	(3.0)	3.8	(2.8)
	Hong Kong (China)	m	m	m	m	91.1	(1.6)	m	m	98.4			(1.7)	-7.9	(2.3)	90.8	(1.7)	91.3	(1.6)	0.5	(0.8)
	Indonesia Iordan	80.8	(4.7)	88.8 79.6	(2.1)	86.9 86.4	(3.4)	6.1 -2.9	(6.0)	90.3	(3.0)		(3.8)	-10.0 -2.1	(4.3)	85.5 83.5	(3.0)	87.2 m	(2.4) m	1.6 m	(3.9) m
	Kosovo	79.1	(4.1)	79.3	(1.2)	60.1	(1.7)	-19.0	(4.5)	74.4		87.1 (12.7	(17.7)	75.0	(3.4)	74.6	(0.9)	-0.4	(3.5)
	Lebanon	48.7	(7.3)	76.9	(3.8)	73.4	(5.7)	24.8	(8.3)	66.7			(3.8)	9.7	(6.3)	73.4	(3.8)	71.0	(3.5)	-2.4	(4.7)
	Lithuania	90.1	(3.7)	94.5	(1.5)	97.0	(1.7)	6.9	(3.9)	94.4			(4.6)	2.4	(4.7)	94.5	(1.2)	C	C (0.1)	C	C (O 1)
	Macao (China) Malta	84.3	(0.1)	78.5	(0.1)	92.8 m	(0.0) m	c m	c m	82.3	(0.1)		(0.0) (0.2)	- 5.2	(0.2)	90.2 c	(0.1) C	94.9 79.5	(0.1)	4.8	(0.1) C
	Moldova	46.6	(4.3)	48.3	(5.6)	62.7	(8.3)	16.1	(9.5)	50.5		С С	(O.2)	-3.2 C	(0.2) C	50.4	(2.9)	50.2	(9.5)	-0.2	(9.5)
	Montenegro	С	С	97.5	(0.5)	93.7	(0.2)	С	С	96.3		С	С	С	С	71.3	(10.4)	97.0	(0.0)	25.7	(10.4)
	Peru	22.2	(4.0)	20.5	(2.7)	17.3	(4.4)	-5.0	(5.4)	19.7			(3.7)	4.1	(4.1)	21.8	(2.7)	20.5	(2.3)	-1.4	(2.3)
	Qatar Romania	7.9 89.5	(0.1)	21.8 88.4	(0.1)	39.4 82.2	(0.1)	31.5 -7.3	(0.2)	13.6 87.2		52.4 c	(0.1) C	38.8	(0.1) C	29.3 86.7	(0.2)	29.9 m	(0.1) m	0.6 m	(0.2) m
	Russia	82.4	(5.3)	94.5	(2.3)	94.4	(2.6)	11.9	(5.8)	93.2		С	С	С	С	93.0	(1.9)	90.5	(3.0)	-2.5	(2.9)
	Singapore	m	m	m	m	89.5	(0.1)	m	m	88.8	(0.1)	88.6	(1.0)	-0.2	(1.0)	86.9	(3.5)	88.8	(0.1)	1.8	(3.5)
	Chinese Taipei	Q7 2	(4.4)	91.4	(2.2)	93.7	(2.1)	2.2	(5.7)	93.9			(3.5)	-2.8	(4.1)	94.7	(1.6)	91.6	(2.4)	-3.2	(3.1)
	Thailand Trinidad and Tobago	87.3 81.8	(4.4)	85.2 79.3	(2.8)	89.6 m	(4.0) m	2.3 m	(5.7) m	89.2 78.1			(8.4) (0.5)	-14.4 2.3	(8.7)	85.5 80.8	(2.7)	87.5 77.9	(2.2)	2.0 -2.9	(2.6)
	Tunisia	80.2	(16.6)	77.1	(4.3)	85.1	(6.2)		(17.9)	78.7		85.1 (6.3	(13.9)	74.3	(5.3)	81.7	(4.7)	7.4	(6.8)
	United Arab Emirates	97.0	(2.1)	86.4	(4.3)	92.5	(1.9)	-4.5	(2.8)	94.7	(1.4)	88.4	(2.8)	-6.3	(3.2)	90.6	(2.9)	91.3	(1.7)	0.6	(2.5)
	Uruguay Viet Nam	2.9 91.8	(1.7)	6.3	(1.4)	6.5	(1.0)	3.7	(2.0)		(1.0)		(1.7)	5.4	(2.0)	5.4	(1.1)	6.7 94.3	(0.9)	1.3	(1.0)
			(2.5)	95.0	(1.9)	89.4	(5.0)	-2.4	(5.6)	92.0			(0.0)	8.0	(1.9)	73.5			(1.9)	20.8	(5.4)
	Argentina** Kazakhstan**	50.6 58.2	(8.1)	26.8 70.1	(3.1)	38.4 74.9	(3.7) (5.3)	-12.1 16.7	(9.1)	31.7 66.9	(2.5)		(4.8) (0.0)	5.5 33.1	(5.5)	29.7 68.3	(2.4)	34.5 63.0	(2.4)	4.8 -5.3	(2.3)
	Malaysia**	80.5	(6.8)	83.2	(4.0)	84.4	(4.4)	3.9	(8.0)	84.6		63.2 (75.4	(8.1)	83.6	(2.8)	8.3	(7.5)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Notes: Values that are statistically significant are indicated in bold (see Annex A3). Qualified science teachers are those with ISCED Level 5A and a major in science.

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4). StatLink 福夏河 http://dx.doi.org/10.1787/888933436477



[Part 3/3]

Table II.2.10 Qualified science teachers, by student and school characteristics

		Percei	ntage of sci	ence teachers	with a uni	versity degre	e (ISCED le	vel 5A) and a	major in so	cience in scho	ols attende	d by 15-year-	olds
		Change in s increase in	the number	re per percent er of qualified thers	age-point I science	per percen	tage-point i	of epistemic increase in th ience teache	e number	in so per percent	ience-relat age-point i	of expecting ed occupatio ncrease in the ience teacher	ns e number
		Before acco students' an socio-econor	d schools'	After accou students' an socio-econor	d schools'	Before acco students' ai socio-econo	nd schools'	After accordants' and socio-econo	nd schools'	Before accor students' and socio-econor	d schools'	After accou students' an socio-econor	d schools
		Score dif.	S.E.	Score dif.	S.E.	Unit dif.	S.E.	Unit dif.	S.E.	Odds ratio	S.E.	Odds ratio	S.E.
Aus	stralia	0.4	(0.1)	0.1	(0.1)	0.002	(0.00)	0.001 0.001	(0.00)	1.001	0.001	0.999	(0.00)
	stria Igium	0.7 0.7	(0.1)	0.3 0.1	(0.1)	0.004 0.002	(0.00)	0.001	(0.00)	1.006 1.017	0.002	1.004 1.009	(0.00)
	nada	0.2	(0.1)	0.1	(0.0)	0.001	(0.00)	0.000	(0.00)	1.002	0.001	1.001	(0.00)
Chi		0.2	(0.1)	0.2	(0.1)	0.001	(0.00)	0.001	(0.00)	1.002	0.001	1.002	(0.00)
	ech Republic	0.2	(0.1)	0.1	(0.1)	0.000	(0.00)	0.000	(0.00)	1.003	0.001	1.003	(0.00)
	nmark	-0.1	(0.1)	-0.1	(0.1)	-0.001	(0.00)	0.000	(0.00)	0.999	0.002	0.999	(0.00)
	onia Iland	0.2	(0.1)	0.1	(0.1)	0.001 0.000	(0.00)	0.001	(0.00)	1.000	0.001	0.999	(0.00)
	ince	0.5	(0.1)	0.1	(0.1)	0.000	(0.00)	0.000	(0.00)	1.000	0.001	0.998	(0.00)
	rmany	0.4	(0.1)	0.1	(0.1)	0.002	(0.00)	0.001	(0.00)	1.001	0.002	0.999	(0.00)
	eece	0.3	(0.1)	0.1	(0.1)	0.001	(0.00)	0.001	(0.00)	1.002	0.001	1.001	(0.00)
Hu	ingary	0.3	(0.2)	0.1	(0.1)	0.001	(0.00)	0.001	(0.00)	1.004	0.004	1.002	(0.00)
	land	0.0	(0.0)	0.0	(0.0)	0.000	(0.00)	0.000	(0.00)	0.999	0.001	0.999	(0.00)
	land	-0.3	(0.1)	-0.2	(0.1)	-0.001	(0.00)	-0.001	(0.00)	0.998	0.003	0.999	(0.00)
Isra		0.1	(0.1)	0.1	(0.1)	0.001	(0.00)	0.001 -0.005	(0.00)	1.011	0.002	1.011	(0.00)
Ital Japa		-0.9 m	(0.2) m	-0.3 m	(0.2) m	-0.007 m	(0.00) m	-0.005 m	(0.00) m	0.972 m	0.007 m	0.981 m	(0.01) m
Kor		0.2	(0.2)	0.2	(0.1)	0.001	(0.00)	0.002	(0.00)	1.002	0.002	1.002	(0.00)
Lat		0.1	(0.1)	0.0	(0.1)	0.001	(0.00)	0.001	(0.00)	1.002	0.001	1.001	(0.00)
	xembourg	0.2	(0.0)	0.0	(0.0)	0.001	(0.00)	0.000	(0.00)	1.003	0.001	1.001	(0.00)
	exico	0.1	(0.1)	0.0	(0.0)	0.000	(0.00)	0.000	(0.00)	1.001	0.001	1.001	(0.00)
	therlands	1.6	(0.3)	0.8	(0.2)	0.005	(0.00)	0.002	(0.00)	1.008	0.003	1.004	(0.00)
	w Zealand	0.4	(0.2)	0.1	(0.2)	0.001	(0.00)	0.000	(0.00)	1.005	0.003	1.004	(0.00)
	rway land	0.0	(0.1)	-0.1 0.1	(0.1)	0.000 -0.002	(0.00)	0.000	(0.00)	1.001	0.001	1.000	(0.00)
	rtugal	0.0	(0.1)	0.1	(0.1)	0.002	(0.00)	-0.001 0.001	(0.00)	1.001	0.002	1.002	(0.00)
	vak Republic	0.2	(0.1)	0.1	(0.1)	0.001	(0.00)	0.000	(0.00)	1.002	0.002	1.001	(0.00)
	venia	0.2	(0.1)	0.1	(0.1)	0.000	(0.00)	-0.001	(0.00)	1.006	0.001	1.006	(0.00)
Spa		-0.1	(0.1)	-0.1	(0.0)	-0.001	(0.00)	-0.001	(0.00)	1.001	0.001	1.001	(0.00)
	eden	0.1	(0.1)	0.1	(0.1)	0.000	(0.00)	0.001	(0.00)	1.002	0.001	1.002	(0.00)
	itzerland	0.5	(0.1)	0.1	(0.1)	0.003	(0.00)	0.001	(0.00)	1.004	0.002	1.001	(0.00)
Tur		0.1	(0.1)	0.1	(0.1)	0.000	(0.00)	0.000	(0.00)	1.003	0.002	1.003	(0.00)
	ited Kingdom ited States	0.4 -0.2	(0.2)	0.1	(0.1)	0.001 -0.001	(0.00)	0.000	(0.00)	1.007 0.998	0.003	1.006 0.999	(0.00)
	CD average	0.2	(0.0)	0.1	(0.0)	0.001	(0.00)	0.000	(0.00)	1.002	0.002	1.001	(0.00)
e Alσ	oania geria	0.1	(0.1)	0.1	(0.1)	0.000	(0.00)	0.000	(0.00)	1.001 1.002	0.001	1.000	(0.00)
S Alb		0.2	(0.1)	0.0	(0.1)	0.000	(0.00)	0.000	(0.00)	1.002	0.001	1.000	(0.00)
B-S	S-J-G (China)	1.0	(0.3)	0.1	(0.2)	0.003	(0.00)	0.000	(0.00)	1.004	0.002	1.000	(0.00)
Bul	Igaria	1.8	(0.4)	0.6	(0.2)	0.003	(0.00)	-0.001	(0.00)	1.038	0.010	1.030	(0.01)
	BA (Argentina)	0.7	(0.3)	0.1	(0.1)	0.004	(0.00)	0.001	(0.00)	1.001	0.002	0.999	(0.00)
	lombia	0.0	(0.1)	0.0	(0.1)	0.000	(0.00)	0.000	(0.00)	1.000	0.001	1.000	(0.00)
	sta Rica	0.3	(0.1)	-0.1	(0.1)	0.002	(0.00)	0.000	(0.00)	1.002	0.002	1.000	(0.00)
	oatia prus*	-0.1 -0.1	(0.2)	0.0 -0.1	(0.1)	-0.000	(0.00)	0.000 -0.001	(0.00)	0.999 1.002	0.003	1.000	(0.00)
	minican Republic	0.2	(0.1)	0.1	(0.1)	0.001	(0.00)	0.001	(0.00)	1.002	0.001	1.001	(0.00)
	ROM	0.2	(0.0)	0.1	(0.0)	0.001	(0.00)	0.001	(0.00)	1.006	0.001	1.005	(0.00)
	orgia	0.1	(0.1)	0.1	(0.1)	0.001	(0.00)	0.000	(0.00)	1.001	0.001	1.001	(0.00)
Ho	ong Kong (China)	0.4	(0.2)	0.2	(0.1)	0.001	(0.00)	0.001	(0.00)	1.003	0.002	1.002	(0.00)
	lonesia	0.3	(0.1)	0.1	(0.1)	0.001	(0.00)	0.000	(0.00)	1.001	0.003	0.998	(0.00)
	dan	-0.1	(0.1)	-0.1	(0.1)	0.000	(0.00)	0.000	(0.00)	1.000	0.001	1.001	(0.00)
	sovo	-0.2 0.2	(0.0)	0.0	(0.0)	0.000	(0.00)	0.000	(0.00)	0.998	0.001	1.000	(0.00)
	oanon huania	0.2	(0.1)	0.1 -0.1	(0.1)	0.001 0.001	(0.00)	0.001	(0.00)	1.001	0.002 0.002	1.000	(0.00)
	nuama ncao (China)	0.2	(0.0)	0.4	(0.1)	0.001	(0.00)	0.000	(0.00)	1.003	0.002	0.999	(0.00)
Ma		0.0	(0.1)	0.2	(0.1)	0.001	(0.00)	0.002	(0.00)	0.998	0.002	0.999	(0.00)
Mo	oldova	0.0	(0.1)	0.0	(0.1)	0.000	(0.00)	-0.001	(0.00)	1.000	0.001	1.000	(0.00)
	ontenegro	0.3	(0.1)	-0.1	(0.1)	-0.002	(0.00)	-0.002	(0.00)	1.022	0.009	1.018	(0.01)
Per		0.0	(0.1)	0.0	(0.1)	-0.001	(0.00)	-0.001	(0.00)	0.999	0.001	0.999	(0.00)
Qat	ıtar mania	1.0	(0.0)	0.8	(0.0)	0.005	(0.00)	0.004	(0.00)	1.007	0.000	1.006	(0.00)
	mania ssia	-0.1 0.1	(0.2)	0.1 -0.1	(0.1)	0.000	(0.00)	0.000	(0.00)	0.998 1.002	0.002	1.000	(0.00)
	ssia igapore	0.1	(0.1)	-0.1 - 0.1	(0.1)	0.001	(0.00)	0.000	(0.00)	1.002	0.003	0.999	(0.00)
	inese Taipei	0.3	(0.2)	0.1	(0.1)	0.001	(0.00)	0.000	(0.00)	0.999	0.004	0.997	(0.00)
	ailand	0.2	(0.1)	0.1	(0.1)	0.000	(0.00)	0.000	(0.00)	1.004	0.002	1.003	(0.00)
Trir	nidad and Tobago	-0.2	(0.0)	0.0	(0.0)	0.000	(0.00)	0.000	(0.00)	0.999	0.001	1.000	(0.00)
	nisia	0.1	(0.1)	0.0	(0.1)	0.000	(0.00)	0.000	(0.00)	1.000	0.001	0.999	(0.00)
	ited Arab Emirates	0.1	(0.1)	0.3	(0.1)	0.000	(0.00)	0.000	(0.00)	0.998	0.001	0.999	(0.00)
	uguay et Nam	0.8 0.4	(0.5)	0.1 0.3	(0.2) (0.1)	0.002	(0.00)	0.000	(0.00)	1.011 1.000	0.004 0.003	1.006 0.999	(0.00)
	gentina**	0.2	(0.1)	0.1	(0.1)	0.000	(0.00)	0.000	(0.00)	1.000	0.003	1.000	(0.00)
	gentina** zakhstan**	0.2	(0.1)	0.1	(0.1)	0.001	(0.00)	0.001	(0.00)	1.001	0.002	1.000	(0.00)
K 22			(0.1)	0.0	(0.1)	0.001	(0.00)	0.000	(0.00)	1.001	0.001	1.000	(0.00)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Notes: Values that are statistically significant are indicated in bold (see Annex A3). Qualified science teachers are those with ISCED Level 5A and a major in science.

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/1]

Table II.2.11 Science-related extracurricular activities

		ercentage of students in schools offerin		
	Scie	nce club	Science co	mpetitions
	%	S.E.	%	S.E.
Australia	38.3	(2.2)	91.5	(1.2)
Austria	5.0	(1.3)	30.9	(3.0)
Belgium	5.7	(1.7)	69.2	(2.9)
Canada	56.5	(2.9)	76.2	(2.6)
Chile	35.5	(3.9)	63.4	(3.8)
Czech Republic	47.1	(3.3)	84.9	(2.0)
Denmark	8.9	(2.4)	33.2	(3.2)
Estonia	42.5	(2.9)	94.5	(1.3)
Finland	12.9	(2.5)	86.0	(2.9)
France	24.3	(3.1)	67.1	(2.8)
Germany	48.4	(3.8)	58.9	(2.9)
Greece	18.5	(2.5)	70.8	(3.3)
Hungary	52.0	(3.6)	92.7	(1.8)
Iceland	10.0	(0.1)	25.8	(0.2)
Ireland Israel	34.6 57.5	(3.9)	65.3 57.2	(4.5)
	45.7		65.9	(3.8)
Italy		(3.4)		(3.9)
Japan	59.8 92.8	(3.2) (2.0)	23.6 85.5	(2.9)
Korea Latvia	92.8 45.4		85.5 85.2	(2.3)
	45.4 32.5	(3.0) (0.1)	85.2	(2.2)
Luxembourg Mexico	28.7		68.7	(0.1)
Mexico Netherlands	18.2	(2.9) (3.8)	50.7	(2.8)
New Zealand	48.6	(4.2)	82.8	(2.8)
Norway	1.6	(0.9)	12.5	(2.5)
Poland	79.4	(3.0)	94.9	(1.7)
Portugal	56.6	(4.4)	88.6	(2.3)
Slovak Republic	60.2	(3.1)	80.6	(2.2)
Slovenia	52.1	(0.6)	87.3	(0.2)
Spain	15.7	(2.7)	65.6	(3.3)
Sweden	7.1	(1.9)	61.0	(3.4)
Switzerland	37.2	(3.6)	24.1	(3.4)
Turkey	42.2	(4.4)	57.9	(4.5)
United Kingdom	79.3	(3.0)	72.1	(3.5)
United States	75.1	(3.7)	72.1	(3.4)
OECD average	39.3	(0.5)	66.5	(0.5)
Albania	47.6	(4.0)	84.8	(2.3)
Albania Algeria Brazil	64.4	(4.1)	33.3	(3.9)
Brazil	12.7	(2.2)	27.4	(2.8)
B-S-J-G (China)	90.6	(2.3)	90.5	(2.2)
Bulgaria	60.9	(3.7)	83.2	(2.0)
CABA (Argentina)	48.6	(7.4)	54.2	(7.6)
Colombia	34.8	(3.1)	67.8	(3.6)
Costa Rica	24.2	(3.1)	90.6	(2.2)
Croatia	52.0	(3.9)	81.5	(2.6)
Cyprus*	74.6	(0.1)	87.0	(0.1)
Dominican Republic	50.5	(4.0)	80.6	(3.0)
FYROM	38.8	(0.2)	71.1	(0.1)
Georgia	39.3	(3.4)	78.6	(2.7)
Hong Kong (China)	94.9	(2.0)	87.5	(3.0)
Indonesia	58.6	(3.5)	79.7	(2.8)
Jordan	51.5	(3.3)	25.1	(3.1)
Kosovo Lebanon	51.6	(1.3)	58.2	(1.2)
Lithuania	43.5	(4.0) (2.6)	57.9 92.2	(4.2)
Macao (China)	34.5 74.2	(2.6)	92.2 95.8	(1.5) (0.0)
Malta	65.8	(0.1)	74.7	(0.0)
Moldova	17.1	(0.1)	74.7 98.5	(0.1)
Montenegro	75.7	(0.5)	83.5	
Peru	28.1	(2.9)	70.4	(0.6) (2.7)
Qatar	85.8	(0.1)	91.0	(0.1)
Romania	73.4	(3.0)	37.2	(3.7)
Russia	77.3	(2.8)	99.2	(0.7)
Singapore	41.7	(1.2)	88.6	(1.4)
Chinese Taipei	79.6	(2.6)	81.4	(2.4)
Thailand	79.6 89.6	(2.6)	72.3	(3.8)
Trinidad and Tobago		(2.2)	/2.3 68.5	
	38.5			(0.3)
Tunisia United Arab Emirates	58.7 82.3	(4.4)	41.5 87.9	(4.4)
United Arab Emirates Uruguay	82.3 35.2	(1.8) (2.9)	87.9 44.5	(1.7) (2.5)
	44.3	(2.9)	44.5 47.0	(2.5)
Viet Nam			47.0	(3.0)
Viet Nam				
Argentina**	42.3	(4.0)	57.8	(3.5)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/2]

Table II.2.16 Teacher-directed science instruction

				Percenta	ge of stud	lents who	reported	that the	following	things ha	ppen in t	heir scien	ce lesson	s		
			The tea	cher expla	ins scient	ific ideas				A who	le class di	scussion to	akes place	with the	teacher	
		ever ost never	Some	lessons	Many	lessons	or a	lesson lmost lesson		ever ost never	Some	lessons	Many	lessons	or á	lesson Imost lesson
	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E
Australia	5.5	(0.2)	25.6	(0.6)	36.1	(0.6)	32.9	(0.6)	15.4	(0.5)	39.0	(0.6)	29.1	(0.5)	16.4	(0.4
Austria Austria Relgium	17.2	(0.7)	32.3	(0.9)	29.1	(0.8)	21.4	(0.8)	23.3	(0.9)	33.6	(0.9)	25.7	(0.7)	17.5	(0.7
Deigium	16.7	(0.5)	41.4	(0.6)	27.2	(0.6)	14.8	(0.4)	23.9	(0.7)	42.2	(0.6)	22.4	(0.5)	11.6	(0.5
Canada Chile	6.7	(0.3)	20.8	(0.5)	33.8	(0.4)	38.7	(0.7)	15.4	(0.5)	33.6	(0.4)	30.2 19.0	(0.5)	20.7	(0.5
Czech Republic	19.2	(0.5)	38.3 47.4	(0.7)	31.7	(0.6)	19.7 11.1	(0.7)	29.4 21.8	(0.7)	43.3 42.5	(0.8)	24.2	(0.7)	8.3 11.5	(0.4
Denmark	9.6	(0.4)	43.7	(0.9)	31.0	(0.8)	15.6	(0.6)	19.6	(0.8)	43.3	(0.9)	26.3	(0.7)	10.9	(0.5
Estonia	11.6	(0.5)	39.1	(0.7)	32.5	(0.7)	16.8	(0.5)	13.1	(0.5)	37.6	(0.8)	33.3	(0.8)	16.0	(0.6
Finland	5.7	(0.3)	27.6	(0.7)	37.9	(0.7)	28.7	(0.8)	15.1	(0.6)	38.5	(0.8)	31.7	(0.8)	14.7	(0.6
France	13.4	(0.5)	36.8	(0.7)	30.5	(0.6)	19.2	(0.6)	19.0	(0.6)	35.8	(0.7)	27.3	(0.7)	18.0	(0.5
Germany	13.0	(0.5)	37.3	(0.7)	32.5	(0.7)	17.1	(0.6)	20.4	(0.7)	39.9	(0.8)	28.4	(0.8)	11.2	(0.5
Greece	11.5	(0.5)	28.4	(0.8)	26.9	(0.7)	33.3	(0.8)	17.5	(0.7)	34.2	(0.8)	29.4	(0.7)	18.9	(0.6
Hungary	10.6	(0.5)	27.7	(0.7)	30.9	(0.7)	30.7	(0.8)	28.6	(0.8)	38.3	(0.7)	21.9	(0.7)	11.1	(0.5
Iceland	9.1	(0.5)	29.4	(0.8)	32.7	(0.8)	28.8	(0.8)	11.5	(0.6)	33.0	(0.8)	33.9	(0.9)	21.7	(0.8
Ireland	8.4 9.0	(0.5)	36.2 30.7	(0.8)	33.1	(0.8)	22.3 29.0	(0.7)	25.1 12.3	(0.9)	39.8 33.7	(0.9)	23.6	(0.7)	11.5 22.4	(0.5
Israel Italy	8.3	(0.6)	32.8	(0.8)	33.7	(0.7)	25.3	(0.7)	16.2	(0.7)	40.7	(0.8)	31.3	(0.6)	11.8	(0.6
Japan	13.7	(0.5)	38.3	(0.7)	31.0	(0.7)	17.0	(0.6)	53.3	(1.1)	30.1	(0.8)	11.2	(0.5)	5.5	(0.3
Korea	26.6	(1.0)	42.7	(0.7)	22.1	(0.7)	8.5	(0.5)	54.5	(1.1)	29.2	(0.8)	10.6	(0.6)	5.6	(0.3
Latvia	10.9	(0.6)	39.4	(0.8)	34.1	(0.7)	15.7	(0.6)	14.6	(0.5)	40.7	(0.8)	32.0	(0.8)	12.6	(0.5
Luxembourg	14.4	(0.5)	34.7	(0.8)	28.9	(0.7)	22.0	(0.6)	19.8	(0.5)	35.8	(0.6)	27.1	(0.6)	17.3	(0.5
Mexico	6.7	(0.3)	25.4	(0.7)	33.0	(0.6)	34.9	(0.8)	23.1	(0.7)	40.5	(0.9)	24.7	(0.7)	11.7	(0.6
Netherlands	20.6	(0.8)	41.9	(0.9)	27.7	(0.9)	9.7	(0.6)	36.6	(0.9)	42.3	(0.9)	16.8	(0.7)	4.3	(0.4
New Zealand	5.3	(0.4)	25.4	(0.7)	34.5	(0.8)	34.9	(0.9)	18.5	(0.8)	38.3	(0.8)	28.4	(0.7)	14.8	(0.7
Norway	6.7	(0.4)	29.4	(0.7)	34.3	(0.6)	29.5	(0.8)	14.8	(0.6)	39.6	(0.7)	29.9	(0.6)	15.6	(0.6
Poland	7.6	(0.4)	28.3	(0.8)	34.5	(0.8)	29.6	(0.8)	19.9	(0.7)	37.6	(0.7)	28.5	(0.7)	13.9	(0.6
Portugal	8.0	(0.4)	23.3	(0.8)	29.3	(0.8)	39.3	(1.0)	13.7	(0.6)	36.0	(0.8)	31.7	(0.8)	18.6	(0.8
Slovak Republic Slovenia	23.2	(0.8)	41.6	(0.9) m	20.9	(0.6)	14.4 m	(0.6) m	22.0	(0.6)	42.5 m	(0.7)	23.8	(0.6)	11.6 m	(0.4
Spain	10.8	(0.5)	32.9	(0.9)	30.7	(0.7)	25.6	(0.8)	34.8	(0.9)	39.2	(0.8)	18.3	(0.8)	7.7	(0.4
Sweden	10.7	(0.5)	38.0	(0.9)	32.0	(0.7)	19.3	(0.8)	13.0	(0.5)	37.6	(0.8)	31.1	(0.8)	18.2	3.0)
Switzerland	11.0	(0.5)	33.7	(0.7)	32.9	(0.8)	22.4	(0.5)	14.8	(0.7)	33.4	(0.8)	30.3	(0.7)	21.5	3.0)
Turkey	13.4	(0.6)	38.5	(1.0)	29.9	(0.8)	18.2	(0.7)	25.7	(0.8)	41.3	(0.9)	21.3	(0.7)	11.6	(0.6
United Kingdom	6.0	(0.3)	28.8	(0.8)	33.0	(0.6)	32.2	(0.8)	23.3	(0.8)	41.7	(0.8)	23.1	(0.6)	11.9	(0.5
United States	7.1	(0.4)	28.3	(0.8)	30.5	(0.7)	34.1	(0.9)	15.8	(0.7)	37.0	(0.7)	27.4	(0.7)	19.9	(0.8
OECD average	11.4	(0.1)	33.7	(0.1)	31.0	(0.1)	23.9	(0.1)	21.9	(0.1)	38.0	(0.1)	26.0	(0.1)	14.0	(0.1
Alle!	0.2	(0.4)	200	(0,0)	25.0	(0, 0)	26.1	(0.0)	12.2	(0, ()	F2.1	(0,0)	26.5	(0,0)	0.1	(0.4
Algaria	9.2 17.1	(0.4)	38.9 34.9	(0.9)	25.9 21.1	(0.8)	26.1 26.9	(0.8)	13.3 19.4	(0.6)	52.1 31.1	(0.9)	26.5 22.3	(0.9)	8.1 27.2	(0.4
Albania Algeria Brazil	17.1	(0.4)	40.7	(0.6)	24.4	(0.5)	18.0	(0.6)	25.7	(0.6)	40.9	(0.6)	22.5	(0.5)	10.9	(0.4
B-S-J-G (China)	8.6	(0.5)	37.9	(1.0)	28.5	(0.7)	25.1	(1.1)	14.4	(0.6)	42.4	(0.8)	26.4	(0.6)	16.8	(0.8
Bulgaria	17.4	(0.6)	40.1	(0.7)	26.3	(0.7)	16.2	(0.6)	19.2	(0.6)	36.5	(0.7)	27.1	(0.7)	17.1	(0.6
CABA (Argentina)	12.1	(1.1)	34.9	(1.5)	31.8	(1.5)	21.2	(1.6)	25.2	(1.5)	41.6	(1.4)	22.7	(1.3)	10.5	(0.8
Colombia	13.3	(0.5)	43.7	(0.7)	25.4	(0.6)	17.6	(0.6)	26.5	(0.7)	43.1	(0.6)	20.8	(0.5)	9.6	(0.4
Costa Rica	12.9	(0.5)	35.1	(8.0)	27.2	(0.7)	24.8	(8.0)	42.3	(0.7)	32.9	(0.6)	14.3	(0.5)	10.6	(0.5
Croatia	13.1	(0.5)	37.2	(0.7)	28.1	(0.7)	21.6	(0.7)	15.4	(0.6)	39.8	(0.7)	29.2	(0.6)	15.6	(0.6
Cyprus*	13.0	(0.5)	29.6	(0.7)	28.5	(0.6)	28.9	(0.6)	13.4	(0.5)	35.1	(0.7)	32.0	(0.7)	19.5	(0.6
Dominican Republic	13.1	(0.6)	35.2	(0.9)	31.2	(0.9)	20.5	(0.8)	20.6	(0.9)	36.2	(1.0)	28.0	(0.9)	15.2	3.0)
FYROM	16.4	(0.5)	47.3	(0.8)	22.7	(0.7)	13.7	(0.6)	13.5	(0.6)	36.1	(0.8)	27.8	(0.7)	22.6	(0.6
Georgia	15.6 4.9	(0.6)	45.1 29.0	(0.9)	23.4 39.0	(0.8)	15.9 27.1	(0.7)	12.1	(0.5)	46.5 45.8	(0.8)	29.1	(0.7)	12.3	(0.6
Hong Kong (China) Indonesia	10.0	(0.4)	53.6	(0.9)	18.8	(0.7)	17.6	(0.9)	8.3	(0.6)	54.4	(1.1)	29.6	(0.9)	16.5	(0.7
Jordan	14.4	(0.7)	26.3	(0.7)	19.3	(0.7)	40.0	(1.0)	13.0	(0.5)	31.5	(0.8)	28.7	(0.7)	26.8	(0.7
Kosovo	28.4	(0.8)	33.2	(0.9)	21.6	(0.8)	16.8	(0.6)	27.5	(0.8)	27.0	(0.8)	23.1	(0.7)	22.5	(0.7
Lebanon	13.6	(1.0)	28.8	(1.2)	25.0	(0.9)	32.6	(1.3)	10.3	(0.6)	39.0	(1.2)	27.1	(1.0)	23.5	(1.2
Lithuania	15.4	(0.6)	38.0	(0.6)	26.9	(0.6)	19.7	(0.6)	15.9	(0.6)	36.5	(0.7)	28.1	(0.7)	19.4	(0.0
Macao (China)	5.0	(0.4)	37.1	(8.0)	37.0	(0.7)	20.8	(0.6)	11.9	(0.4)	51.3	(0.9)	27.0	(8.0)	9.9	(0.5
Malta	7.7	(0.5)	34.3	(0.7)	31.2	(0.7)	26.7	(0.7)	16.2	(0.6)	38.4	(0.7)	30.5	(0.8)	14.9	(0.
Moldova	6.0	(0.3)	41.6	(1.0)	29.1	(0.7)	23.3	(0.7)	8.0	(0.4)	39.1	(0.9)	32.2	(0.8)	20.7	(0.
Montenegro	22.9	(0.6)	43.9	(0.7)	19.9	(0.6)	13.3	(0.5)	21.9	(0.6)	43.5	(0.7)	23.3	(0.6)	11.2	(0.
Peru Oatar	6.3	(0.4)	35.6	(0.9)	37.2	(0.7)	21.0	(0.7)	17.5	(0.7)	40.3	(0.7)	29.2	(0.7)	13.1	(0.
Qatar Romania	11.0 12.7	(0.2)	32.9 46.9	(0.5)	30.2	(0.5)	25.9 15.9	(0.4)	12.3	(0.3)	37.8 40.7	(0.5)	30.5	(0.5)	19.4 16.7	(0.
Russia	6.6	(0.7)	17.2	(0.9)	33.0	(0.7)	43.2	(0.8)	11.2	(0.7)	34.9	(0.8)	34.8	(0.6)	19.2	(0.
Singapore	4.3	(0.4)	27.1	(0.6)	37.6	(0.7)	31.0	(0.7)	13.7	(0.4)	43.1	(0.7)	28.8	(0.6)	14.5	(0.
Chinese Taipei	7.5	(0.2)	33.7	(0.8)	32.7	(0.5)	26.0	(0.7)	12.1	(0.5)	40.2	(0.6)	30.1	(0.6)	17.5	(0.0
Thailand	3.6	(0.4)	28.9	(0.8)	31.8	(0.6)	35.7	(0.7)	8.9	(0.4)	38.8	(0.8)	29.8	(0.6)	22.5	(0.
Trinidad and Tobago	10.9	(0.5)	40.9	(0.9)	27.1	(0.8)	21.1	(0.6)	15.1	(0.6)	39.7	(0.8)	28.3	(0.7)	17.0	(0.2
Tunisia	8.1	(0.6)	34.4	(0.7)	26.5	(0.8)	30.9	(0.8)	9.6	(0.5)	33.8	(0.7)	31.4	(0.7)	25.1	(0.8
United Arab Emirates	8.9	(0.4)	28.5	(0.7)	31.8	(0.6)	30.8	(0.5)	13.2	(0.4)	36.3	(0.7)	30.8	(0.5)	19.7	(0.
Uruguay	17.8	(0.6)	45.6	(0.7)	23.8	(0.7)	12.7	(0.5)	34.4	(0.7)	42.6	(0.7)	16.3	(0.5)	6.7	(0.
Viet Nam	5.6	(0.6)	45.7	(0.8)	33.0	(0.9)	15.8	(0.7)	11.2	(0.6)	54.8	(1.0)	23.9	(0.7)	10.1	(0.
Argentina**	15.6	(0.7)	44.1	(0.9)	23.9	(0.7)	16.3	(0.7)	22.2	(0.7)	43.6	(0.8)	22.1	(0.7)	12.1	(0
Kazakhstan**	5.7	(0.4)	25.9	(0.8)	41.3	(0.8)	27.1	(0.9)	6.1	(0.4)	27.2	(1.0)	42.5	(0.8)	24.1	(0.8
Malaysia**	3.9	(0.3)	36.8	(0.8)	36.9	(0.8)	22.4	(0.8)	3.9	(0.3)	25.7	(0.9)	38.9	(0.7)	31.5	(0.9

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** http://dx.doi.org/10.1787/888933436477



[Part 2/2]

Table II.2.16 Teacher-directed science instruction

Results based on students' reports

Results based on stud	ents re	ports		Percenta	ge of stud	ents who	reported	that the	following	things ha	ppen in t	heir scien	ce lesson	s		
					isses our c		•			- 0		acher den				
		ever ost never	Some	lessons	Many	lessons	or a	lesson lmost lesson		ever ost never	Some	lessons	Many	lessons	or á	lesson lmost lesson
	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Australia	7.0	(0.3)	27.9	(0.6)	39.1	(0.6)	26.1	(0.6)	6.6	(0.3)	28.4	(0.6)	39.4	(0.6)	25.6	(0.6)
Austria Belgium	18.5	(0.8)	31.3	(0.7)	30.1	(0.7)	20.1	(0.7)	11.9	(0.6)	26.8	(0.8)	32.9	(0.8)	28.4	(0.9)
Belgium Canada	12.8 9.0	(0.5)	37.7 23.4	(0.6)	33.5 37.6	(0.6)	15.9 30.1	(0.4)	18.5 7.7	(0.5)	40.7 22.1	(0.6)	28.8 38.8	(0.6)	11.9 31.5	(0.4)
Chile	12.3	(0.5)	35.3	(0.9)	34.6	(0.8)	17.7	(0.7)	8.9	(0.4)	28.3	(0.7)	36.4	(0.7)	26.4	(0.7)
Czech Republic	16.8	(0.6)	43.7	(0.7)	27.8	(0.7)	11.7	(0.5)	24.5	(0.6)	42.6	(0.7)	22.2	(0.6)	10.6	(0.4)
Denmark	14.3	(0.6)	42.2	(0.8)	31.8	(0.8)	11.7	(0.5)	11.3	(0.5)	39.0	(0.7)	34.4	(0.8)	15.2	(0.6)
Estonia	10.7	(0.5)	34.5	(0.7)	37.0	(0.7)	17.8	(0.6)	15.0	(0.7)	41.0	(0.8)	31.0	(0.8)	12.9	(0.6)
Finland	7.7	(0.4)	27.4	(0.8)	39.8	(0.8)	25.1	(0.8)	6.4	(0.3)	28.8	(0.8)	42.4	(0.7)	22.4	(0.6)
France	15.0	(0.6)	32.6	(0.8)	32.8	(0.8)	19.6	(0.6)	14.8	(0.6)	35.4	(0.7)	33.0	(0.8)	16.8	(0.5)
Germany	15.1	(0.6)	36.5	(0.8)	34.4	(0.7)	14.0	(0.5)	24.9	(0.8)	38.2	(0.9)	27.7	(0.8)	9.2	(0.4)
Greece	11.6	(0.5)	25.1	(0.7)	32.1	(0.7)	31.2	(0.9)	10.4	(0.6)	26.6 28.4	(0.8)	34.7	(0.8)	28.3	(0.7)
Hungary Iceland	15.5 8.5	(0.6)	32.3 28.2	(0.7)	33.8 35.2	(0.9)	18.4 28.1	(0.7)	11.2	(0.6)	33.2	(0.7)	34.7	(0.8)	25.8 21.3	(0.7)
Ireland	10.6	(0.7)	32.9	(0.7)	37.4	(0.8)	19.2	(0.7)	10.7	(0.5)	35.7	(0.9)	37.4	(0.8)	16.2	(0.7)
Israel	14.2	(0.7)	33.7	(0.8)	31.3	(0.6)	20.8	(0.7)	17.3	(0.6)	34.0	(0.8)	28.7	(0.7)	20.0	(0.6)
Italy	21.2	(0.6)	40.1	(0.7)	28.8	(0.6)	9.9	(0.4)	17.0	(0.6)	35.9	(0.7)	32.7	(0.7)	14.4	(0.6)
Japan	14.9	(0.7)	35.9	(0.7)	29.9	(0.6)	19.3	(0.7)	14.3	(0.8)	27.7	(0.7)	34.8	(0.8)	23.2	(0.7)
Korea	30.5	(0.9)	38.0	(0.7)	22.8	(0.7)	8.8	(0.5)	18.7	(0.7)	33.5	(0.8)	31.1	(0.7)	16.6	(0.7)
Latvia	10.3	(0.5)	31.0	(0.7)	39.1	(8.0)	19.5	(0.7)	12.7	(0.7)	41.4	(0.8)	32.8	(0.8)	13.1	(0.5)
Luxembourg	14.5	(0.5)	31.4	(0.8)	33.2	(0.7)	20.9	(0.6)	16.8	(0.5)	36.0	(0.8)	29.8	(0.6)	17.4	(0.6)
Mexico	17.0	(0.6)	35.2	(0.9)	31.2	(0.7)	16.6	(0.6)	8.1	(0.4)	26.0	(0.7)	35.8	(0.7)	30.1	(0.9)
Netherlands New Zealand	8.2 6.8	(0.5)	27.7 26.6	(0.8)	43.3	(0.7)	20.8	(0.8)	19.9 5.9	(0.8)	44.3 27.0	(0.8)	28.6 39.6	(0.8)	7.2 27.5	(0.5)
Norway	11.7	(0.6)	37.0	(0.7)	34.5	(0.8)	16.7	(0.6)	15.5	(0.7)	42.6	(0.8)	28.9	(0.7)	13.0	(0.5)
Poland	10.4	(0.5)	28.7	(0.8)	35.4	(0.8)	25.5	(0.7)	6.2	(0.4)	21.7	(0.8)	36.7	(0.7)	35.4	(0.8)
Portugal	8.8	(0.5)	26.1	(0.6)	35.5	(0.9)	29.6	(1.0)	7.3	(0.5)	23.8	(0.8)	35.2	(0.8)	33.6	(0.9)
Slovak Republic	18.8	(0.6)	41.6	(0.7)	27.7	(0.6)	12.0	(0.5)	27.9	(0.7)	38.5	(0.6)	20.1	(0.6)	13.4	(0.6)
Slovenia	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
Spain	9.1	(0.5)	23.0	(0.7)	33.2	(0.7)	34.8	(1.0)	11.8	(0.5)	31.5	(0.8)	34.0	(0.8)	22.6	(0.7)
Sweden	12.6	(0.5)	36.7	(0.8)	32.5	(0.7)	18.1	(0.8)	14.5	(0.7)	41.1	(0.8)	29.7	(0.8)	14.7	(0.7)
Switzerland	10.6	(0.5)	27.5	(0.8)	36.6	(0.8)	25.4	(0.9)	12.2	(0.6)	30.5	(0.8)	37.8	(1.0)	19.6	(0.7)
Turkey	12.4 9.5	(0.5)	32.2 32.6	(0.9)	34.7 37.3	(0.7)	20.7	(0.8)	10.5 8.6	(0.5)	32.4 34.8	(0.8)	34.8 36.8	(0.8)	22.3 19.8	(0.7)
United Kingdom United States	8.3	(0.4)	26.9	(0.8)	34.2	(0.8)	30.6	(0.6)	7.5	(0.4)	24.4	(0.8)	36.0	(0.8)	32.1	(0.5)
OECD average	12.8	(0.1)	32.4	(0.1)	34.1	(0.1)	20.7	(0.1)	13.2	(0.1)	33.0	(0.1)	33.3	(0.1)	20.5	(0.1)
2 Albania	11.5	(0.5)	31.9	(0.8)	31.7	(0.7)	24.8	(0.7)	13.4	(0.5)	43.4	(1.0)	28.6	(0.8)	14.6	(0.6)
Albania Algeria Brazil	16.3	(0.8)	26.7	(0.7)	23.2	(0.6)	33.7	(0.8)	13.6	(0.9)	18.5	(0.5)	21.1	(0.6)	46.9	(1.0)
Brazil	15.5	(0.4)	39.2	(0.6)	29.3	(0.5)	16.0	(0.5)	12.2	(0.4)	32.9	(0.5)	31.9	(0.5)	22.9	(0.5)
B-S-J-G (China)	12.2	(0.5)	43.6	(0.8)	26.6	(0.7)	17.6	(0.9)	10.9	(0.5)	39.3	(1.0)	29.9	(0.9)	19.9	(0.9)
Bulgaria	15.6	(0.6)	32.6	(0.7)	31.2	(0.6)	20.6	(0.5)	17.2	(0.5)	32.1	(0.6)	29.9	(0.6)	20.8	(0.6)
CABA (Argentina)	14.4	(1.5)	37.3	(1.5)	31.6	(1.4)	16.8	(1.1)	10.2	(1.1)	30.5	(1.7)	33.2	(1.1)	26.1	(1.7)
Colombia	16.4	(0.7)	28.0	(0.6)	28.4	(0.6)	27.2	(0.7)	8.4	(0.4)	30.6	(0.6)	34.0	(0.7)	27.0	(0.7)
Costa Rica Croatia	27.0 13.0	(0.7)	36.9 38.4	(0.9)	22.2 31.7	(0.7)	14.0 16.9	(0.6)	11.3 8.9	(0.5)	30.2 33.9	(0.7)	30.1 35.9	(0.6)	28.4	(0.8)
Cyprus*	10.9	(0.5)	27.0	(0.6)	35.0	(0.7)	27.1	(0.7)	11.8	(0.5)	28.8	(0.8)	34.3	(0.7)	25.2	(0.7)
Dominican Republic	10.9	(0.6)	26.8	(0.9)	36.9	(0.8)	25.4	(0.9)	9.1	(0.6)	25.5	(0.7)	35.6	(1.0)	29.8	(1.0)
FYROM	12.0	(0.5)	31.8	(0.8)	31.5	(0.8)	24.7	(0.7)	16.9	(0.6)	38.8	(0.8)	26.8	(0.7)	17.5	(0.6)
Georgia	7.9	(0.4)	25.5	(0.7)	36.2	(0.7)	30.4	(0.9)	19.4	(0.7)	44.0	(0.8)	23.3	(0.6)	13.3	(0.5)
Hong Kong (China)	7.3	(0.4)	40.0	(1.1)	38.0	(0.8)	14.6	(0.7)	5.6	(0.5)	36.4	(1.0)	40.8	(8.0)	17.2	(0.7)
Indonesia	12.0	(0.6)	48.3	(0.9)	21.9	(0.8)	17.8	(0.7)	14.5	(0.7)	51.6	(0.8)	19.0	(0.7)	14.9	(0.7)
Jordan	12.6	(0.5)	27.0	(0.8)	26.1	(0.8)	34.3	(0.8)	12.3	(0.5)	18.8	(0.7)	18.4	(0.6)	50.4	(0.9)
Kosovo Lebanon	30.1	(0.8)	21.1	(0.8)	24.4 33.1	(0.9)	24.4	(0.7)	26.3 10.5	(0.8)	30.0 28.4	(0.9)	24.7	(0.8)	19.0 32.0	(0.7)
Lithuania	13.4	(0.7)	30.5	(0.6)	31.5	(0.7)	24.6	(0.7)	14.7	(0.6)	33.9	(0.6)	30.7	(0.7)	20.8	(0.6)
Macao (China)	8.4	(0.4)	45.5	(0.8)	33.5	(0.7)	12.6	(0.5)	7.2	(0.5)	44.5	(0.7)	35.0	(0.7)	13.3	(0.6)
Malta	8.2	(0.5)	27.7	(0.8)	37.9	(0.8)	26.2	(0.7)	11.0	(0.5)	35.5	(0.9)	34.9	(0.9)	18.6	(0.7)
Moldova	12.5	(0.5)	36.5	(0.9)	30.2	(0.7)	20.8	(0.8)	9.3	(0.5)	41.8	(0.9)	31.4	(0.6)	17.5	(0.6)
Montenegro	16.6	(0.6)	40.4	(0.9)	27.4	(0.7)	15.5	(0.5)	15.4	(0.6)	38.9	(0.8)	28.3	(0.7)	17.4	(0.6)
Peru	14.0	(0.5)	39.8	(0.8)	31.0	(0.6)	15.1	(0.6)	10.7	(0.5)	36.9	(0.8)	33.5	(0.7)	18.9	(0.7)
Qatar	9.9	(0.3)	29.7	(0.5)	35.0	(0.5)	25.4	(0.4)	10.5	(0.3)	30.1	(0.5)	32.3	(0.4)	27.1	(0.4)
Romania	36.6	(0.9)	39.5	(0.9)	14.2	(0.7)	9.8	(0.5)	14.4	(0.6)	43.6	(0.9)	27.6	(0.9)	14.5	(0.7)
Russia Singapore	11.2 5.7	(0.6)	33.0 26.1	(0.8)	34.5 39.5	(0.7)	21.4	(1.1)	7.5 6.7	(0.5)	25.2 33.1	(0.8)	36.1 37.3	(0.7)	31.2 22.9	(1.0)
Chinese Taipei	9.2	(0.3)	35.4	(0.6)	35.1	(0.6)	20.4	(0.6)	6.2	(0.4)	32.7	(0.7)	37.3	(0.6)	22.9	(0.5)
Thailand	5.7	(0.4)	35.1	(0.8)	33.2	(0.7)	26.1	(0.7)	3.8	(0.3)	31.2	(0.8)	32.1	(0.6)	32.9	(0.7)
Trinidad and Tobago	10.7	(0.5)	32.0	(0.7)	33.0	(0.8)	24.4	(0.8)	11.3	(0.5)	32.6	(0.7)	31.7	(0.8)	24.4	(0.8)
Tunisia	8.7	(0.5)	31.5	(0.7)	32.0	(0.8)	27.7	(0.8)	8.5	(0.5)	26.6	(0.7)	30.4	(0.7)	34.6	(0.8)
United Arab Emirates	8.7	(0.3)	26.3	(0.5)	35.3	(0.5)	29.8	(0.6)	8.5	(0.4)	24.6	(0.5)	33.9	(0.5)	33.1	(0.7)
Uruguay	14.8	(0.5)	45.3	(0.8)	28.2	(0.7)	11.7	(0.5)	10.0	(0.4)	39.1	(0.8)	34.0	(8.0)	16.8	(0.6)
Viet Nam	11.0	(0.5)	47.5	(1.0)	29.2	(0.9)	12.3	(0.5)	5.5	(0.4)	36.9	(1.0)	36.4	(0.9)	21.3	(0.8)
Argentina**	16.9	(0.6)	38.3	(0.8)	27.3	(0.8)	17.5	(0.6)	13.8	(0.7)	32.7	(0.8)	28.6	(0.6)	24.9	(0.6)
Kazakhstan**	7.0	(0.4)	16.6	(0.7)	37.4	(0.9)	39.0	(1.1)	5.8	(0.3)	12.7	(0.6)	39.5	(0.9)	42.0	(1.1)
Malaysia**	3.2	(0.3)	22.1	(0.7)	40.2	(0.7)	34.5	(0.8)	3.3	(0.3)	23.1	(0.9)	38.7	(0.8)	34.9	(0.9)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** http://dx.doi.org/10.1787/888933436477



[Part 1/3]

Table II.2.17 Index of teacher-directed science instruction, by student and school characteristics

Results based on students' reports

		All stu	ıdents					By sch	ool socio-	economic	profile ¹			
	Ave	rage		ability s index	Bottom	quarter	Second	l quarter	Third	guarter	Тор	quarter		bottom arter
	Mean	S.E.	S.D.	S.E.	Mean		Mean index	S.E.	Mean		Mean	-	Dif.	S.E
Australia	0.27	(0.01)	0.99	(0.01)	0.18	(0.03)	0.19	(0.03)	index 0.29	(0.03)	index 0.40	S.E. (0.03)	0.22	(0.04
Austria	-0.01	(0.01)	1.05	(0.01)	-0.15	(0.05)	-0.07	(0.05)	-0.01	(0.03)	0.11	(0.03)	0.22	(0.07
Belgium	-0.22	(0.01)	0.91	(0.01)	-0.22	(0.03)	-0.28	(0.03)	-0.20	(0.03)	-0.18	(0.03)	0.04	(0.04
Canada	0.37	(0.01)	1.06	(0.01)	0.33	(0.03)	0.37	(0.04)	0.36	(0.03)	0.42	(0.03)	0.09	(0.05
Chile	-0.04	(0.02)	0.92	(0.01)	-0.13	(0.04)	-0.07	(0.04)	-0.01	(0.04)	0.04	(0.03)	0.18	(0.04
Czech Republic	-0.36	(0.01)	0.94	(0.01)	-0.48	(0.03)	-0.38	(0.03)	-0.29	(0.04)	-0.33	(0.03)	0.15	(0.04
Denmark	-0.15	(0.02)	0.89	(0.01)	-0.25	(0.04)	-0.14	(0.05)	-0.15	(0.05)	-0.06	(0.03)	0.19	(0.0!
Estonia	-0.05	(0.02)	0.91	(0.01)	-0.07	(0.04)	-0.03	(0.03)	-0.06	(0.03)	-0.03	(0.04)	0.04	(0.0
Finland	0.23	(0.02)	0.94	(0.01)	0.14	(0.03)	0.17	(0.03)	0.28	(0.04)	0.33	(0.04)	0.19	(0.0)
France	-0.05	(0.02)	1.01	(0.01)	-0.16	(0.04)	-0.09	(0.03)	0.00	(0.03)	0.00	(0.03)	0.15	(0.0)
Germany	-0.23	(0.01)	0.92	(0.01)	-0.38	(0.04)	-0.33	(0.05)	-0.17	(0.03)	-0.10	(0.03)	0.28	(0.0)
Greece	0.22	(0.02)	1.07	(0.02)	0.07	(0.06)	0.23	(0.04)	0.26	(0.03)	0.31	(0.04)	0.25	(0.0)
Hungary	0.00	(0.02)	1.02	(0.01)	-0.08	(0.04)	-0.06	(0.05)	0.03	(0.05)	0.11	(0.04)	0.19	(0.0)
Iceland	0.21	(0.02)	1.02	(0.01)	0.09	(0.04)	0.20	(0.03)	0.21	(0.04)	0.36	(0.04)	0.27	(0.0)
Ireland	-0.02	(0.02)	0.93	(0.01)	-0.03	(0.03)	-0.04	(0.06)	-0.02	(0.05)	0.01	(0.04)	0.04	(0.0)
Israel	0.08	(0.02)	1.05	(0.01)	0.13	(0.05)	0.05	(0.05)	0.02	(0.06)	0.10	(0.04)	-0.04	(0.0)
Italy	-0.15	(0.01)	0.84	(0.01)	-0.22	(0.03)	-0.20	(0.03)	-0.12	(0.03)	-0.07	(0.03)	0.15	(0.0)
Japan	-0.21	(0.02)	0.90	(0.01)	-0.32	(0.05)	-0.31	(0.04)	-0.15	(0.03)	-0.08	(0.04)	0.24	(0.0
Korea	-0.59	(0.02)	1.05	(0.01)	-0.65	(0.05)	-0.50	(0.06)	-0.68	(0.05)	-0.53	(0.05)	0.12	(0.0
Latvia	-0.03	(0.01)	0.87	(0.01)	-0.03	(0.04)	-0.04	(0.04)	-0.04	(0.03)	-0.03	(0.03)	0.00	(0.0)
Luxembourg	-0.05	(0.01)	1.06	(0.01)	-0.17	(0.04)	-0.06	(0.03)	-0.06	(0.03)	0.06	(0.03)	0.23	(0.0
Mexico	0.08	(0.02)	0.95	(0.01)	0.08	(0.05)	0.07	(0.03)	0.06	(0.03)	0.13	(0.04)	0.05	(0.0)
Netherlands	-0.27	(0.02)	0.79	(0.01)	-0.40	(0.04)	-0.30	(0.03)	-0.26	(0.04)	-0.14	(0.04)	0.25	(0.0
New Zealand	0.29	(0.02)	0.98	(0.01)	0.28	(0.05)	0.22	(0.05)	0.32	(0.04)	0.32	(0.03)	0.04	(0.0
Norway	0.00	(0.02)	0.96	(0.01)	0.00	(0.04)	-0.03	(0.04)	0.00	(0.04)	0.02	(0.03)	0.02	(0.0
Poland	0.24	(0.02)	0.99	(0.01)	0.27	(0.03)	0.20	(0.04)	0.23	(0.04)	0.25	(0.04)	-0.02	(0.0
Portugal	0.35	(0.02)	1.09	(0.02)	0.35	(0.04)	0.31	(0.04)	0.31	(0.04)	0.43	(0.05)	0.08	(0.0
Slovak Republic	-0.38	(0.02)	1.02	(0.01)	-0.39	(0.04)	-0.37	(0.04)	-0.39	(0.04)	-0.37	(0.04)	0.02	(0.0
Slovenia	0.06	(0.02)	0.89	(0.01)	-0.01	m (0.04)	0.02	m (0.05)	0.09	(0.06)	0.13	m (0.04)	0.14	(0.0
Spain														(0.0
Sweden	-0.04	(0.02)	1.03 0.99	(0.01)	-0.15	(0.05)	-0.06	(0.04)	-0.03	(0.05)	0.06	(0.05)	0.22	
Switzerland	-0.04	(0.02)		(0.01)	0.06	(0.05)	-0.03	(0.04)	0.08	(0.05)	0.23	(0.04)	0.16	(0.0
Turkey United Kingdom	0.09	(0.02)	0.98 0.94	(0.01)	-0.09 0.12	(0.04)	0.08	(0.04)	0.01	(0.04)	-0.05 0.13	(0.04)	0.05	(0.0)
United States	0.09	(0.01)	1.07	(0.01)	0.12	(0.03)	0.08	(0.03)	0.04	(0.05)	0.13	(0.02)	0.02	
														(0.0)
OECD average	0.00	(0.00)	0.97	(0.00)	-0.06	(0.01)	-0.02	(0.01)	0.01	(0.01)	0.07	(0.01)	0.13	(0.0
Albania	-0.02	(0.01)	0.78	(0.01)	-0.02	(0.02)	-0.03	(0.03)	-0.02	(0.04)	-0.02	(0.03)	0.00	(0.0)
Algeria	0.18	(0.03)	1.15	(0.02)	0.15	(0.07)	0.14	(0.07)	0.24	(0.05)	0.19	(0.05)	0.04	(0.0
Brazil	-0.15	(0.01)	1.03	(0.01)	-0.25	(0.03)	-0.22	(0.03)	-0.22	(0.03)	0.04	(0.03)	0.29	(0.0
B-S-J-G (China)	0.01	(0.03)	1.02	(0.02)	-0.22	(0.03)	-0.11	(0.06)	0.13	(0.07)	0.22	(0.06)	0.45	(0.0
Bulgaria	-0.09	(0.02)	1.12	(0.01)	-0.11	(0.05)	-0.14	(0.04)	-0.08	(0.03)	-0.06	(0.04)	0.06	(0.0
CABA (Argentina)	-0.04	(0.04)	0.86	(0.02)	-0.18	(0.05)	-0.18	(0.06)	0.09	(80.0)	0.08	(0.08)	0.26	(0.0
Colombia	-0.02	(0.02)	0.91	(0.01)	-0.17	(0.04)	-0.09	(0.04)	0.00	(0.03)	0.15	(0.03)	0.32	(0.0
Costa Rica	-0.21	(0.02)	0.98	(0.01)	-0.33	(0.03)	-0.26	(0.03)	-0.20	(0.03)	-0.07	(0.05)	0.26	(0.0
Croatia	0.00	(0.02)	1.01	(0.01)	-0.04	(0.03)	-0.03	(0.05)	0.01	(0.04)	0.06	(0.04)	0.10	(0.0
Cyprus*	0.18	(0.02)	1.12	(0.01)	0.12	(0.03)	0.22	(0.03)	0.19	(0.03)	0.20	(0.04)	0.08	(0.0
Dominican Republic	0.13	(0.02)	1.01	(0.01)	0.09	(0.05)	0.05	(0.06)	0.11	(0.04)	0.23	(0.05)	0.13	(0.0
FYROM	-0.05	(0.02)	0.96	(0.01)	-0.10	(0.03)	-0.07	(0.03)	-0.04	(0.03)	0.02	(0.03)	0.13	(0.0
Georgia	-0.03	(0.01)	0.86	(0.01)	0.04	(0.04)	-0.07	(0.04)	-0.03 0.12	(0.04)	-0.06	(0.03)	-0.10	(0.0
Hong Kong (China) Indonesia	-0.16	(0.02)	0.90	(0.02)	0.00	(0.04)	-0.21	(0.04) (0.03)	-0.12	(0.05)	0.19	(0.03)	0.19	(0.0
Jordan	0.37	(0.02)	1.18	(0.01)	0.22	(0.03)	0.45	(0.03)	0.33	(0.04)	0.47	(0.03)	0.13 0.26	(0.0)
Kosovo	-0.28	(0.02)	1.18	(0.01)	-0.43	(0.04)	-0.40	(0.07)	-0.31	(0.05)	-0.01	(0.05)	0.26	(0.0
Lebanon	0.25	(0.02)	0.98	(0.02)	0.27	(0.04)	0.26	(0.04)	0.20	(0.05)	0.28	(0.03)	0.01	(0.0
Lithuania	0.23	(0.03)	1.10	(0.02)	0.27	(0.04)	-0.01	(0.05)	-0.03	(0.03)	0.28	(0.04)	0.00	(0.0
Macao (China)	-0.03	(0.02)	0.84	(0.01)	0.00	(0.04)	-0.01	(0.03)	-0.03	(0.03)	-0.07	(0.03)	-0.07	(0.0
Malta	0.12	(0.01)	0.84	(0.01)	-0.02	(0.03)	0.10	(0.02)	0.13	(0.02)	0.27	(0.03)	0.28	(0.0
Moldova	0.07	(0.02)	0.86	(0.01)	0.06	(0.04)	0.04	(0.03)	0.04	(0.03)	0.14	(0.03)	0.09	(0.0
Montenegro	-0.27	(0.02)	1.09	(0.01)	-0.11	(0.03)	-0.23	(0.04)	-0.24	(0.03)	-0.45	(0.04)	-0.33	(0.0
Peru	-0.02	(0.02)	0.93	(0.01)	-0.02	(0.03)	0.01	(0.04)	-0.04	(0.04)	-0.03	(0.04)	-0.01	(0.0
Qatar	0.18	(0.01)	1.10	(0.01)	0.05	(0.02)	0.19	(0.02)	0.27	(0.02)	0.21	(0.02)	0.16	(0.0
Romania	-0.31	(0.02)	0.74	(0.01)	-0.44	(0.03)	-0.34	(0.03)	-0.32	(0.04)	-0.15	(0.03)	0.28	(0.0
Russia	0.31	(0.02)	1.01	(0.01)	0.36	(0.06)	0.27	(0.05)	0.29	(0.06)	0.30	(0.04)	-0.06	(0.0
Singapore	0.27	(0.02)	0.95	(0.01)	0.14	(0.02)	0.15	(0.03)	0.34	(0.03)	0.44	(0.04)	0.30	(0.0
Chinese Taipei	0.17	(0.02)	1.01	(0.01)	0.12	(0.04)	0.15	(0.04)	0.13	(0.04)	0.28	(0.04)	0.16	(0.0
Thailand	0.39	(0.02)	1.04	(0.01)	0.42	(0.05)	0.44	(0.04)	0.39	(0.04)	0.31	(0.03)	-0.11	(0.0
Trinidad and Tobago	0.07	(0.02)	0.99	(0.01)	0.42	(0.03)	0.03	(0.04)	0.04	(0.04)	0.20	(0.03)	0.18	(0.0
	0.31	(0.02)	1.04	(0.01)	0.27	(0.04)	0.35	(0.04)	0.30	(0.04)	0.32	(0.04)	0.05	(0.0
Tunisia	0.30	(0.01)	1.07	(0.01)	0.30	(0.03)	0.30	(0.03)	0.32	(0.04)	0.29	(0.02)	-0.01	(0.0
Tunisia United Arah Emirates	0.50													
United Arab Emirates	-0.28	(0.01)	0.89	(0.01)	-0.35	((),(12)	-0.32	((),()3)	-().29	((),()3)	-0.18	(0.03)	0.18	(() (
United Arab Emirates Uruguay	-0.28 -0.04	(0.01)	0.89	(0.01)	-0.35 -0.03	(0.02)	-0.32 -0.11	(0.03)	-0.29	(0.03)	-0.18	(0.03)	0.18 0.07	
United Arab Emirates Uruguay Viet Nam	-0.04	(0.02)	0.74	(0.01)	-0.03	(0.04)	-0.11	(0.04)	-0.06	(0.04)	0.04	(0.04)	0.07	(0.0
Tunisia United Arab Emirates Uruguay Viet Nam Argentina** Kazakhstan**														(0.0)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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Table II.2.17 Index of teacher-directed science instruction, by student and school characteristics

	ults based on stude	1165 16	ports	В	y schoo	l locatio	on .		,	Е	y type of	chool			E	y educa	tion lev	/el	
		or vi	l area illage er than	To (3 to 10	wn 000 0 000	Ci (over 1	ity 00 000		ty –	Public	Private	Pri	vate – ublic	seco educ	wer ndary ation ED 2)	Up secon educ	per ndary ation	ISCI	ED 3 - CED 2
		Mean index	S.E.	Mean index	S.E.	Mean index	ple) S.E.	Dif.	S.E.	Mean index S.E.	Mean index S.		S.E.	Mean	S.E.	Mean	S.E.	Dif.	S.E.
Q	Australia	0.24	(0.09)	0.23	(0.03)	0.29	(0.02)	0.05	(0.09)	0.21 (0.02)	0.35 (0.0			0.25	(0.02)	0.45	(0.04)	0.20	(0.04)
OECD	Austria	-0.02	(0.07)	-0.03	(0.03)	0.01	(0.04)	0.03	(0.09)	-0.03 (0.02)	0.11 (0.0			-0.13	(0.15)	-0.01	(0.02)	0.13	(0.15)
0	Belgium	-0.19	(0.06)	-0.25	(0.02)	-0.16	(0.03)	0.03	(0.06)	W W	W	W W			(0.05)	-0.23	(0.01)	-0.18	(0.05)
	Canada Chile	0.29	(0.07)	-0.02	(0.03)	0.39	(0.02)	0.10	(0.07)	0.35 (0.02)	-0.02 (0.0			0.40	(0.04)	0.36	(0.01)	-0.04 -0.08	(0.04)
	Czech Republic	-0.16	(0.06)	-0.02	(0.02)	-0.32	(0.02)	0.03	(0.17)	-0.37 (0.01)	-0.26 (0.0			-0.35	(0.03)		(0.02)	-0.02	(0.03)
	Denmark	-0.17	(0.04)	-0.16	(0.02)	-0.08	(0.03)	0.03	(0.06)	-0.18 (0.02)	-0.05 (0.0				(0.02)	C.50	(0.02)	C.02	(0.03) C
	Estonia	0.00		-0.05	(0.02)	-0.08	(0.03)	-0.08	(0.04)	-0.05 (0.02)	0.08 (0.				(0.02)		(0.10)		
	Finland	0.13	(0.05)	0.20	(0.02)	0.34	(0.03)	0.21	(0.06)	0.22 (0.02)	0.45 (0.0			0.23	(0.02)	С	С	С	С
	France	0.13	(0.07)	-0.06	(0.02)	-0.07	(0.03)	-0.20	(0.08)	-0.06 (0.02)	-0.03 (0.0			-0.18	(0.03)		(0.02)	0.15	(0.04)
	Germany	-0.35	(0.09)	-0.21	(0.02)	-0.23	(0.04)	0.12	(0.09)	-0.24 (0.02)	-0.16 (0.0			-0.23	(0.01)		(0.07)	0.07	(0.07)
	Greece	0.23	(0.08)	0.19	(0.03)	0.27	(0.03)	0.04	(0.09)	0.20 (0.02)	0.54 (0.0			0.00	(80.0)		(0.02)	0.23	(0.08)
	Hungary Iceland	0.08	(0.10)	0.00	(0.03)	0.00	(0.03)	-0.08 0.15	(0.10) (0.05)	-0.01 (0.02) 0.22 (0.02)	0.06 (0.0 c	0.07 C		0.07	(0.08)	0.00 m	(0.02) m	-0.08 m	(0.08) m
	Ireland	-0.07	(0.04)	-0.03	(0.03)	0.25	(0.03)	0.13	(0.03)	-0.02 (0.03)	-0.02 (0.0				(0.02)		(0.03)	0.08	(0.03)
	Israel	0.14	(0.07)	0.10	(0.03)	0.02	(0.04)	-0.11	(0.08)	m m	m	m m		0.00	(0.04)	0.09	(0.02)	0.09	(0.05)
	Italy	-0.02	(0.12)	-0.17	(0.02)	-0.09	(0.03)	-0.07	(0.12)	-0.15 (0.01)	-0.05 (0.0	0.10	(0.09)	-0.30	(0.16)	-0.15	(0.01)	0.15	
	Japan	С	С	-0.26	(0.04)	-0.19	(0.02)	С	С	-0.23 (0.02)	-0.18 (0.0			m	m	-0.21	(0.02)	m	m
	Korea	C	(O, O, 1)	-0.54	(0.07)	-0.60	(0.02)	C 0.01	(O, OF)	-0.59 (0.02)	-0.58 (0.0			-0.48	(0.06)		(0.02)	-0.11	(0.07)
	Luxembourg	-0.08	(0.04)	-0.10	(0.02)	-0.07 0.01	(0.03)	0.01	(0.05)	-0.03 (0.01) -0.08 (0.02)	0.14 (0.7			-0.03 -0.14	(0.01)		(0.08) (0.02)	0.07 0.21	(0.08)
	Luxembourg Mexico	0.06	(0.05)	0.08	(0.02)	0.01	(0.02)	0.03	m (0.06)	0.08 (0.02)	0.09 (0.0			0.06	(0.02)		(0.02)	0.21	(0.03)
	Netherlands	C.00	(0.03)	-0.27	(0.03)	-0.26	(0.05)	0.03	(0.00) C	-0.26 (0.03)	-0.27 (0.0			-0.30	(0.03)	-0.17	(0.02)	0.13	
	New Zealand	0.35	(0.08)	0.27	(0.03)	0.31	(0.02)	-0.04	(0.08)	0.27 (0.02)	0.46 (0.0			0.22	(0.07)		(0.02)	0.07	
	Norway	-0.08	(0.04)	-0.01	(0.02)	0.09	(0.03)	0.17	(0.05)	-0.01 (0.02)	0.18 (0.				(0.02)	С	С	С	С
	Poland	0.28	(0.03)	0.25	(0.03)	0.15	(0.03)	-0.12	(0.04)	0.24 (0.02)	0.23 (0.1			0.24	(0.02)	С	С	С	С
	Portugal	0.44	(0.10)	0.34	(0.02)	0.38	(0.06)	-0.06	(0.11)	0.34 (0.02)	0.62 (0.1			0.28	(0.03)	0.40	(0.02)	0.12	(0.04)
	Slovak Republic Slovenia	-0.32 c	(0.04)	-0.36 c	(0.02) C	-0.56 c	(0.03)	-0.23	(0.05) C	C C	-0.33 (0.0	(7) 0.05 c 0.05		-0.36 c	(0.02) C	-0.40	(0.03)	-0.04	(0.04)
	Spain	0.09	(0.15)		(0.02)	0.08	(0.03)	-0.01	(0.15)	0.01 (0.02)	0.16 (0.0				(0.02)	С	С	C	C
	Sweden		(0.08)	-0.07	(0.02)	0.04	(0.04)			-0.05 (0.02)	-0.02 (0.0				(0.02)	0.44	(0.12)	0.49	
	Switzerland	0.16	(0.11)	0.11	(0.02)	0.20	(0.04)	0.03	(0.11)	0.13 (0.02)	0.14 (0.1	3) 0.00	(0.14)	0.09	(0.02)	0.27	(0.04)	0.18	(0.04)
	Turkey	С	С	-0.02	(0.03)	-0.05	(0.03)	С	С	-0.04 (0.02)	0.11 (0.1			-0.05	(0.20)		(0.02)	0.01	(0.20)
	United Kingdom	0.03	(0.06)	0.09	(0.02)	0.08	(0.04)	0.06	(0.08)	0.08 (0.02)	0.14 (0.0			-0.05	(0.10)		(0.01)	0.14	(0.10)
	United States		(0.05)		(0.03)	0.32	(0.04)			0.32 (0.02)	0.45 (0.1				(0.05)	0.34			(0.06)
	OECD average	0.04	(0.01)	-0.01	(0.00)	0.02	(0.01)	0.02	(0.02)	-0.01 (0.00)	0.09 (0.0	0.11 0.1 1	(0.01)	-0.02	(0.01)	0.03	(0.01)	0.09	(0.02)
SLS	Albania	0.02	(0.03)	-0.02	(0.02)	-0.06	(0.03)	-0.08	(0.04)	-0.02 (0.01)				0.02	(0.02)	-0.05	(0.02)	-0.07	(0.03)
Partners	Algeria	0.18	(0.07)	0.17	(0.04)	0.23	(0.05)	0.06	(0.09)	0.18 (0.03)	C . 10 (0.4	C ((0.04)	0.23	(0.04)	0.07	(0.05)
Pai	Brazil B-S-J-G (China)	-0.23	(0.07)	-0.17	(0.02)	0.09	(0.03)	0.11 0.36	(0.07)	0.01 (0.03)	0.18 (0.0			0.00	(0.03)		(0.02)	0.09	(0.03)
	Bulgaria	-0.20	(0.03)	-0.06	(0.04)	-0.13	(0.04)	-0.02	(0.07)	-0.10 (0.02)	c c	c c			(0.03)		(0.03)	-0.02	(0.03)
	CABA (Argentina)	m	m	С.00	(0.02) C	-0.05	(0.04)	m	m	-0.13 (0.05)	0.03 (0.0			-0.04	(0.03)	-0.07	(0.13)	-0.03	(0.12)
	Colombia	-0.09	(0.05)	-0.08	(0.03)	0.04	(0.02)	0.13	(0.05)	-0.06 (0.02)	0.15 (0.0			-0.15	(0.02)	0.05	(0.02)	0.20	
	Costa Rica	-0.23	(0.04)	-0.20	(0.03)	-0.25	(0.05)	-0.01	(0.07)	-0.21 (0.02)	-0.22 (0.0	3) -0.01	(0.04)	-0.21	(0.02)	-0.22	(0.03)	-0.01	(0.03)
	Croatia	С	C	0.01	(0.03)	0.00	(0.03)	С	С	0.00 (0.02)	0.02 (0.			С	С		(0.02)	С	С
	Cyprus* Dominican Republic	0.22	(0.07)	0.16	(0.02)	0.23	(0.03)	0.01	(0.07)	0.19 (0.02)	0.15 (0.0			0.08	(0.05)		(0.02)	0.11	(0.06)
	FYROM	-0.15	(0.07)	-0.05	(0.03)	-0.04	(0.05)	0.02	(0.09)	0.13 (0.03)	0.13 (0.0			-0.05 c	(0.06) C		(0.02) (0.02)	0.21	(0.06) C
	Georgia	0.05	(0.03)	-0.03	(0.02)	-0.04	(0.02)		(0.04)	-0.05 (0.02)	0.03 (0.0				(0.03)		(0.02)	0.00	
	Hong Kong (China)	m	m	m	m	0.11	(0.02)	m	m	0.18 (0.06)	0.10 (0.0			0.04	(0.02)		(0.02)	0.11	(0.03)
	Indonesia	-0.18	(0.03)	-0.16	(0.02)	-0.10	(0.03)	0.08	(0.04)	-0.14 (0.02)	-0.18 (0.0			-0.17	(0.02)	1	(0.03)	0.02	(0.03)
	Jordan	0.24	(0.06)	0.34	(0.04)	0.45	(0.04)	0.21	(0.08)	0.33 (0.03)	0.50 (0.0			0.37	(0.02)	m	m	m	m (O. OE)
	Kosovo Lehanon	-0.42		-0.31	(0.03)	-0.16	(0.04)	0.25	(0.10)	-0.29 (0.02)			(0.11)		(0.04)		(0.03)	0.10	(0.05)
	Lebanon Lithuania		(0.06)		(0.04)	0.24	(0.05)	-0.10	(0.08)	0.19 (0.05)			0.06)		(0.07)	0.29 c	(0.03)	0.14 c	(0.07) C
	Macao (China)	C.03	(0.0-1)	С.00	(0.03)		(0.01)	С.	(0.03) C	C C	-0.03 (0.0			-0.06			(0.02)		(0.03)
	Malta		(0.04)		(0.02)	m	m	m	m	0.03 (0.02)	0.23 (0.0			С	С			С	С
	Moldova	0.05	(0.03)		(0.02)	0.13	(0.03)	0.08	(0.04)	0.07 (0.02)	С	С С	C		(0.02)		(0.05)	0.04	(0.05)
	Montenegro	C	(O, O, I)	-0.21	(0.02)	-0.38	(0.03)	C	(O, O.C.)	-0.27 (0.02)	C	c c			(0.15)		(0.02)	-0.35	
	Peru Qatar		(0.04)	-0.01	(0.02)	-0.06 0.23	(0.05)		(0.06)	0.00 (0.02)	-0.07 (0.0 0.23 (0.0			-0.03	(0.03)		(0.02)	0.02	(0.04)
	Romania		(0.05)		(0.02)		(0.02)		(0.06)	0.15 (0.01)	0.23 (0.0 C	C 0.08			(0.03)	0.21 m	(0.01) m	0.13 m	(0.03) m
	Russia		(0.03)		(0.02)		(0.03)		(0.04)	0.30 (0.02)	С	c c			(0.02)		(0.07)		
	Singapore	m	m	m	m	0.27	(0.01)	m	m	0.26 (0.01)	0.39 (0.0				(0.11)		(0.01)	0.02	(0.11)
	Chinese Taipei	С	C	0.16	(0.03)		(0.02)	С	С	0.20 (0.02)	0.11 (0.0	-0.0 9	(0.04)	0.21	(0.02)	0.15	(0.03)		(0.03)
	Thailand		(0.05)	0.38	(0.02)		(0.05)		(0.07)	0.40 (0.02)	0.26 (0.0		(0.04)		(0.04)	0.36			
	Trinidad and Tobago		(0.04)		(0.02)	0.24	(0, 0.4)	0 12	(O. 17)	0.06 (0.02)	0.16 (0.0				(0.03)		(0.02)		(0.04)
	Tunisia United Arab Emirates		(0.16) (0.05)		(0.03)	0.34	(0.04) (0.02)	0.12	(0.17)	0.32 (0.02)	0.32 (0.3		(0.35)		(0.03)		(0.02) (0.01)		(0.04) (0.04)
	Uruguay		(0.03)		(0.03)		(0.02)		(0.03)	-0.31 (0.02)			(0.03)		(0.04)	-0.24			(0.04)
	Viet Nam		(0.02)		(0.03)	-0.05	(0.04)		(0.05)	-0.04 (0.02)					(0.04)	-0.04			(0.04)
					(0.03)	-0.10	(0.02)		(0.10)	-0.19 (0.02)	0.02 (0.0				(0.02)		(0.02)	0.09	(0.03)
	Argentina**	-0.18	(0.09)	-0.1/	(0.03)	-0.10					0.02 10.1								
	Argentina** Kazakhstan** Malaysia**	0.51	(0.09) (0.04) (0.04)	-0.17 0.47	(0.03)		(0.04)	0.09	(0.05)	0.55 (0.02) 0.52 (0.02)	0.33 (0.0	7) -0.22	(0.07)		(0.02)	0.64		0.10	(0.04) (0.07)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 3/3]

Table II.2.17 Index of teacher-directed science instruction, by student and school characteristics

			e index of	ore per unit i teacher-direc istruction		per	unit increa	of epistemic use on the ind I science instr	ex	in science	e-related on the inde	of expecting occupations pex of teacher-d nstruction	er unit
		Before accor students' and socio-econon	d schools'	After accor students' an socio-econo	d schools'	Before acco students' ai socio-econo	nd schools'	After according students' ar socio-econo	nd schools'	Before acco students' an socio-econor	d schools'	After accou students' an socio-econo	d schools'
		Score dif.	S.E.	Score dif.	S.E.	Unit dif.	S.E.	Unit dif.	S.E.	Odds ratio	S.E.	Odds ratio	S.E.
9	Australia	16	(1.1)	12	(1.1)	0.20	(0.01)	0.19	(0.01)	1.24	(0.03)	1.21	(0.03)
OECD	Austria Belgium	11 6	(1.5)	7 5	(1.3)	0.19 0.13	(0.02)	0.16 0.12	(0.02)	1.16 1.17	(0.04)	1.15 1.16	(0.04)
Ŭ	Canada	11	(1.1)	10	(1.0)	0.19	(0.02)	0.17	(0.02)	1.17	(0.03)	1.15	(0.03)
	Chile	11	(1.6)	7	(1.4)	0.17	(0.02)	0.16	(0.02)	1.06	(0.04)	1.04	(0.03)
	Czech Republic	9	(1.6)	6	(1.3)	0.14	(0.02)	0.13	(0.02)	1.08	(0.04)	1.06	(0.04)
	Denmark	8	(1.5)	5	(1.4)	0.10	(0.02)	0.09	(0.02)	1.08	(0.05)	1.08	(0.05)
	Estonia	5	(1.7)	4	(1.5)	0.14	(0.02)	0.13	(0.02)	1.13	(0.05)	1.12	(0.05)
	Finland	20	(1.5)	17	(1.4)	0.18	(0.02)	0.16	(0.02)	1.23	(0.05)	1.19	(0.05)
	France Germany	11 15	(1.5)	8	(1.2)	0.16 0.20	(0.02)	0.15 0.18	(0.02)	1.14 1.29	(0.04)	1.12 1.22	(0.04)
	Greece	15	(1.3)	12	(1.2)	0.20	(0.02)	0.10	(0.02)	1.14	(0.03)	1.11	(0.03)
	Hungary	9	(1.7)	4	(1.3)	0.13	(0.02)	0.11	(0.02)	1.32	(0.05)	1.27	(0.05)
	Iceland	11	(1.7)	9	(1.7)	0.20	(0.02)	0.18	(0.02)	1.10	(0.04)	1.08	(0.04)
	Ireland	8	(1.5)	7	(1.4)	0.14	(0.02)	0.13	(0.02)	1.12	(0.04)	1.11	(0.04)
	Israel	13	(1.7)	13	(1.4)	0.24	(0.02)	0.23	(0.02)	1.28	(0.05)	1.27	(0.04)
	Italy	18	(1.9)	13	(1.6)	0.16	(0.02)	0.14	(0.02)	1.38	(0.05)	1.33	(0.04)
	Japan Korea	10 -1	(1.8)	4 -2	(1.4)	0.22	(0.02)	0.19 0.10	(0.02)	1.17 1.10	(0.05)	1.12 1.09	(0.05)
	Latvia	7	(1.6) (1.7)	-2 7	(1.3)	0.11	(0.02)	0.10	(0.01)	1.10	(0.03)	1.09	(0.03)
	Luxembourg	13	(1.4)	9	(1.1)	0.22	(0.02)	0.20	(0.02)	1.17	(0.04)	1.14	(0.04)
	Mexico	9	(1.2)	8	(1.1)	0.15	(0.02)	0.15	(0.02)	1.05	(0.04)	1.05	(0.04)
	Netherlands	20	(2.6)	11	(2.0)	0.18	(0.02)	0.15	(0.02)	1.25	(0.07)	1.18	(0.06)
	New Zealand	9	(1.7)	7	(1.7)	0.18	(0.02)	0.16	(0.02)	1.16	(0.04)	1.15	(0.04)
	Norway	8	(1.5)	7	(1.5)	0.14	(0.02)	0.13	(0.02)	1.07	(0.04)	1.07	(0.04)
	Poland Portugal	13	(1.5)	12	(1.4)	0.17	(0.02)	0.16	(0.02)	1.22	(0.05)	1.21	(0.05)
	Slovak Republic	10 3	(1.5)	9	(1.3)	0.16 0.09	(0.02)	0.15 0.09	(0.02)	1.26 1.08	(0.03)	1.26 1.08	(0.04)
	Slovenia	m	m	m	(1.2) m	m	(0.02) m	m	(0.02) m	m	(0.04) m	m	(0.04) m
	Spain	14	(1.8)	11	(1.7)	0.19	(0.02)	0.18	(0.02)	1.30	(0.05)	1.27	(0.05)
	Sweden	9	(1.7)	6	(1.5)	0.17	(0.02)	0.15	(0.01)	1.08	(0.04)	1.07	(0.04)
	Switzerland	11	(1.8)	8	(1.5)	0.20	(0.02)	0.18	(0.02)	1.16	(0.05)	1.14	(0.04)
	Turkey	7	(1.6)	6	(1.3)	0.17	(0.02)	0.16	(0.02)	1.09	(0.04)	1.09	(0.04)
	United Kingdom	12	(1.7)	10	(1.5)	0.16	(0.02)	0.15	(0.02)	1.15	(0.04)	1.14	(0.04)
	United States	12	(1.3)	9	(1.2)	0.18	(0.02)	0.17	(0.02)	1.07	(0.03)	1.06	(0.03)
	OECD average	11	(0.3)	8	(0.2)	0.16	(0.00)	0.15	(0.00)	1.16	(0.01)	1.14	(0.01)
-2	Albania	m	m	m	m	0.19	(0.02)	0.19	(0.02)	1.14	(0.05)	1.13	(0.05)
Partners	Algeria	5	(1.1)	5	(1.0)	0.12	(0.01)	0.12	(0.01)	1.09	(0.03)	1.08	(0.03)
arı	Brazil	13	(1.1)	8	(0.9)	0.16	(0.01)	0.15	(0.01)	1.07	(0.02)	1.04	(0.02)
_	B-S-J-G (China)	18	(2.1)	8	(1.6)	0.15	(0.02)	0.11	(0.02)	1.19	(0.04)	1.14	(0.04)
	Bulgaria CABA (Argentina)	7 17	(1.4)	5 10	(1.2)	0.12 0.24	(0.02)	0.11 0.21	(0.02)	1.08 1.10	(0.03)	1.07 1.08	(0.03)
	Colombia	19	(1.4)	13	(1.2)	0.24	(0.04)	0.21	(0.04)	1.03	(0.07)	1.03	(0.07)
	Costa Rica	8	(1.7)	4	(1.3)	0.17	(0.02)	0.16	(0.02)	1.03	(0.03)	1.01	(0.03)
	Croatia	10	(1.5)	8	(1.1)	0.15	(0.01)	0.14	(0.01)	1.14	(0.04)	1.11	(0.04)
	Cyprus*	14	(1.1)	13	(1.0)	0.20	(0.01)	0.20	(0.01)	1.17	(0.04)	1.17	(0.04)
	Dominican Republic	10	(1.7)	7	(1.5)	0.20	(0.03)	0.19	(0.03)	1.12	(0.04)	1.12	(0.04)
	FYROM	12	(1.4)	10	(1.3)	0.22	(0.01)	0.21	(0.02)	1.18	(0.04)	1.17	(0.04)
	Georgia	14 12	(2.0)	14 10	(1.8)	0.22 0.23	(0.02)	0.22 0.22	(0.02)	1.08 1.16	(0.05)	1.08 1.13	(0.05)
	Hong Kong (China) Indonesia	0	(1.6)	-3	(1.7)	0.23	(0.03)	0.22	(0.03)	1.03	(0.05)	1.13	(0.05)
	Jordan	16	(1.3)	14	(1.2)	0.05	(0.01)	0.25	(0.01)	1.15	(0.03)	1.11	(0.03)
	Kosovo	15	(1.2)	12	(1.1)	0.12	(0.02)	0.10	(0.02)	1.15	(0.03)	1.11	(0.03)
	Lebanon	17	(2.9)	17	(2.1)	0.19	(0.03)	0.19	(0.02)	1.21	(0.06)	1.21	(0.06)
	Lithuania	4	(1.2)	4	(1.0)	0.11	(0.02)	0.10	(0.02)	1.07	(0.03)	1.06	(0.03)
	Macao (China)	9	(1.5)	9	(1.5)	0.18	(0.02)	0.17	(0.02)	1.14	(0.05)	1.14	(0.05)
	Malta Moldova	19 23	(2.3)	13 21	(2.0)	0.19	(0.02)	0.17	(0.02) (0.01)	1.25 1.16	(0.06) (0.04)	1.20 1.12	(0.06) (0.04)
	Montenegro	0	(1.7) (1.1)	3	(1.5)	0.20 0.15	(0.01)	0.19 0.16	(0.01)	1.03	(0.04)	1.04	(0.04)
	Peru	1	(1.3)	1	(1.1)	0.13	(0.02)	0.10	(0.02)	1.11	(0.03)	1.10	(0.03)
	Qatar	17	(0.9)	14	(0.9)	0.22	(0.01)	0.20	(0.01)	1.21	(0.02)	1.20	(0.02)
	Romania	18	(2.3)	11	(2.0)	0.14	(0.02)	0.12	(0.02)	1.31	(0.06)	1.17	(0.06)
	Russia	9	(1.6)	9	(1.4)	0.16	(0.02)	0.15	(0.02)	1.05	(0.04)	1.04	(0.04)
	Singapore	16	(1.6)	9	(1.2)	0.17	(0.02)	0.15	(0.02)	1.15	(0.04)	1.13	(0.04)
	Chinese Taipei Thailand	12	(1.6) (1.5)	8	(1.2) (1.4)	0.15 0.13	(0.01) (0.01)	0.13 0.13	(0.01) (0.01)	1.09 1.03	(0.04) (0.03)	1.07 1.05	(0.04) (0.03)
	Trinidad and Tobago	12	(1.7)	7	(1.4)	0.13	(0.01)	0.13	(0.01)	1.03	(0.05)	1.16	(0.05)
	Tunisia	5	(1.0)	5	(1.0)	0.14	(0.02)	0.14	(0.02)	1.08	(0.03)	1.07	(0.03)
	United Arab Emirates	14	(1.0)	14	(0.9)	0.20	(0.01)	0.20	(0.01)	1.14	(0.03)	1.14	(0.03)
	Uruguay	14	(1.7)	9	(1.4)	0.16	(0.02)	0.14	(0.03)	1.08	(0.04)	1.04	(0.04)
	Viet Nam	13	(2.4)	10	(1.9)	0.16	(0.02)	0.15	(0.02)	1.14	(0.05)	1.12	(0.05)
	Argentina**	14	(1.6)	10	(1.4)	0.23	(0.02)	0.20	(0.02)	1.18	(0.04)	1.12	(0.04)
	Kazakhstan**	13	(1.8)	10	(1.6)	0.23	(0.02)	0.22	(0.02)	1.18	(0.04)	1.16	(0.04)
	Malaysia**	11	(1.5)	11	(1.1)	0.21	(0.01)	0.21	(0.01)	1.21	(0.04)	1.21	(0.04)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS).

Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/2]

Table II.2.19 Perceived feedback from science teachers

Kes	ults based on stude	ents	repo	rts		Per	centas	e of st	udent	s who	report	ted tha	t the t	iollowi	ng thi	ngs ha	ppen i	n their	scien	ce less	ons				
		Т	he tea	cher te	ells me in this	how I	am pei				Tł	ne teac	her giv	es me	feedba	nck				teache	r tells	me in v		areas	
		or al	ever lmost ever		ome	Ma	any	or ál	lesson most lesson				me	Ma		Every or al	lesson most lesson		ver most ver	So	me sons	Ma		or ál	lesson lmost lesson
_	A (1'	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
ECD	Australia Austria	23.0 25.5	(0.5)	48.3	(0.5)	23.3	(0.5)	5.4 8.5	(0.2)	27.8 55.8	(0.6)	42.6	(0.5)	23.6 13.0	(0.5)	6.0	(0.3)	25.4 42.4	(0.6)	41.9 32.9	(0.5)	25.8 17.2	(0.6)	6.9 7.5	(0.3)
0	Belgium	25.9	(0.7)	46.4	(0.7)	20.5	(0.5)	7.3	(0.3)	46.3	(0.8)	35.2	(0.6)	14.0	(0.4)	4.5	(0.3)	36.3	(0.8)	41.0	(0.6)	17.4	(0.6)	5.3	(0.3)
	Canada	15.1	(0.4)	47.7	(0.5)	28.8	(0.5)	8.4	(0.3)	26.6	(0.7)	37.4	(0.5)	27.6	(0.5)	8.4	(0.3)	25.7	(0.7)	37.1	(0.5)	28.0	(0.5)	9.3	(0.4)
	Chile Czech Republic	24.6 38.5	(0.7)	43.9 42.6	(0.7)	22.9 13.2	(0.6)	8.6 5.8	(0.5)	29.2 37.7	(0.8)	40.0	(0.8)	13.5	(0.7)	8.6 5.2	(0.5)	29.3 29.6	(0.9)	36.2 43.8	(0.8)	24.0	(0.7)	10.5	(0.4)
	Denmark	35.0	(0.9)	49.5	(0.7)	13.1	(0.5)	2.3	(0.2)	37.2	(0.9)	42.8	(0.7)	16.7	(0.6)	3.3	(0.3)	37.1	(0.9)	44.2	(0.6)	16.0	(0.6)	2.8	(0.2)
	Estonia	26.9	(0.6)	50.4	(0.7)	18.2	(0.6)	4.5	(0.3)	29.9	(0.7)	43.6	(0.6)	21.2	(0.7)	5.2	(0.3)	42.7	(0.9)	37.0	(0.7)	15.8	(0.6)	4.5	(0.3)
	Finland France	33.3 37.4	(0.9)	50.6	(0.8)	13.0 15.7	(0.5)	3.2 6.7	(0.3)	39.1 51.1	(0.8)	43.5 31.2	(0.8)	14.1	(0.6)	3.2 6.0	(0.3)	39.8 35.9	(0.8)	42.6 39.0	(0.8)	14.4	(0.5)	3.3 7.0	(0.3)
	Germany	24.1	(0.8)	57.4	(0.8)	14.8	(0.6)	3.7	(0.3)	51.4	(0.9)	34.0	(0.8)	11.4	(0.5)	3.2	(0.3)	36.1	(0.9)	43.2	(0.8)	16.7	(0.6)	4.0	(0.3)
	Greece	27.8	(0.8)	43.4	(0.8)	20.3	(0.8)	8.5	(0.5)	39.3	(1.3)	33.1	(0.9)	19.7	(0.8)	7.9	(0.5)	29.3	(1.1)	35.7	(0.8)	25.3	(0.9)	9.7	(0.6)
	Hungary	22.6	(0.7)	48.3	(0.7)	22.7	(0.7)	6.3	(0.4)	34.9	(1.0)	39.1	(0.8)	20.6	(0.7)	5.4	(0.4)	34.2	(1.0)	38.7	(0.8)	21.7	(0.8)	5.4	(0.5)
	Iceland Ireland	34.3	(0.8)	41.7 51.6	(0.8)	19.4	(0.8)	4.6	(0.3)	56.0 31.9	(1.0)	28.7 42.2	(0.9)	11.6	(0.5)	3.8	(0.3)	52.4 24.9	(0.9)	30.2 44.5	(0.9)	13.3	(0.6)	4.1 5.5	(0.3)
	Israel	35.1	(0.9)	37.3	(0.6)	19.4	(0.8)	8.2	(0.4)	38.0	(1.1)	33.6	(0.8)	20.2	(0.7)	8.1	(0.4)	37.0	(1.0)	33.6	(0.6)	20.4	(0.7)	9.0	(0.5)
	Italy	19.6	(0.9)	50.4	(0.8)	22.7	(0.8)	7.2	(0.4)	41.9	(0.9)	35.6	(0.8)	18.1	(0.7)	4.3	(0.3)	26.0	(0.7)	41.3	(0.8)	25.3	(0.8)	7.4	(0.4)
	Japan Korea	51.0 47.4	(0.9)	32.3	(0.6)	12.1	(0.6)	4.6	(0.3)	70.4 57.2	(0.9)	19.3	(0.7)	7.2	(0.5)	3.1	(0.2)	59.3 51.3	(1.0)	25.0 29.8	(0.7)	11.1	(0.6)	4.6	(0.3)
	Latvia	17.0	(0.7)	40.9	(0.9)	30.0	(0.7)	12.1	(0.6)	27.5	(0.8)	39.3	(0.8)	25.1	(0.9)	8.1	(0.4)	22.7	(0.8)	37.7	(0.8)	30.3	(0.3)	9.2	(0.5)
	Luxembourg	34.1	(0.8)	41.7	(0.8)	16.8	(0.5)	7.4	(0.3)	47.5	(0.7)	32.1	(0.7)	14.5	(0.6)	6.0	(0.4)	37.9	(0.7)	36.1	(0.7)	19.2	(0.6)	6.9	(0.3)
	Mexico	14.4	(0.6)	42.1	(0.7)	27.6	(0.7)	15.9	(0.6)	27.2	(0.9)	36.0	(0.6)	25.2	(0.7)	11.6	(0.5)	22.3	(0.9)	34.1	(0.7)	28.3	(0.8)	15.3	(0.6)
	Netherlands New Zealand	24.2 18.1	(0.8)	51.9 47.6	(0.8)	19.9 27.3	(0.7)	3.9 6.9	(0.3)	36.2 23.1	(0.9)	42.5 41.5	(0.9)	18.0	(0.7)	3.3 7.6	(0.3)	29.6 18.4	(0.9)	44.1	(0.7)	22.1 32.1	(0.8)	9.3	(0.3)
	Norway	27.2	(0.8)	47.1	(0.8)	20.2	(0.6)	5.5	(0.4)	34.3	(0.9)	42.3	(0.8)	18.0	(0.7)	5.4	(0.3)	24.6	(0.9)	47.6	(0.8)	21.5	(0.7)	6.4	(0.4)
	Poland	23.2	(0.7)	45.4	(0.8)	24.4	(0.7)	7.0	(0.4)	34.9	(0.9)	36.5	(0.7)	22.2	(0.8)	6.3	(0.4)	16.1	(0.7)	41.0	(0.8)	32.2	(0.7)	10.7	(0.5)
	Portugal	25.5 37.3	(0.7)	47.3	(0.9)	19.5 13.7	(0.7)	7.7 6.7	(0.4)	34.9	(0.9)	39.7 38.8	(0.8)	18.4	(0.7)	7.0 6.1	(0.5)	27.2 31.0	(0.9)	42.0	(0.9)	22.1	(0.8)	6.7	(0.5)
	Slovak Republic Slovenia	37.3 m	(0.9) m	42.3 m	(U.O)	m	(0.6) m	m	(U.4)	30.4 m	(1.0) m	30.0 m	(U.O)	16.7 m	(0.7) m	m	(0.3)	m	(0.9) m	41.9 m	(U.O)	20.4 m	(0.7)	m	(0.4) m
	Spain	18.7	(0.7)	47.0	(0.7)	25.4	(0.8)	8.8	(0.5)	38.2	(0.9)	34.8	(0.7)	20.6	(0.7)	6.4	(0.4)	27.7	(0.9)	36.3	(0.8)	26.4	(0.8)	9.6	(0.5)
	Sweden	26.6	(0.9)	48.3	(0.8)	18.0	(0.7)	7.1	(0.5)	37.9	(1.2)	38.6	(0.8)	16.7	(0.6)	6.7	(0.4)	29.8	(1.2)	43.2	(0.9)	19.4	(0.7)	7.6	(0.4)
	Switzerland Turkey	33.4 18.9	(0.7)	40.3	(0.8)	19.2 23.5	(0.7)	7.2	(0.4)	53.6	(0.7)	26.8 42.7	(0.8)	14.3	(0.6)	5.3	(0.3)	43.4	(0.9)	33.2 39.5	(0.7)	17.3 25.8	(0.7)	6.1	(0.4)
	United Kingdom	14.5	(0.6)	49.9	(0.8)	28.1	(0.7)	7.4	(0.4)	16.2	(0.6)	44.1	(0.8)	30.3	(0.8)	9.4	(0.5)	13.1	(0.6)	41.6	(0.9)	34.0	(0.8)	11.3	(0.6)
	United States	17.6	(8.0)	41.0	(0.7)	27.7	(0.8)	13.7	(0.6)	25.6	(0.9)	35.2	(0.7)	26.5	(0.8)	12.8	(0.6)	24.6	(0.9)	34.5	(0.7)	26.7	(0.9)	14.2	(0.7)
	OECD average	27.1	(0.1)	45.3	(0.1)	20.5	(0.1)	7.1	(0.1)	38.2	(0.2)	36.7	(0.1)	18.8	(0.1)	6.3	(0.1)	31.9	(0.2)	38.5	(0.1)	22.0	(0.1)	7.5	(0.1)
SrS	Albania	10.0	(0.5)	43.3	(0.9)	30.9	(0.8)	15.8	(0.7)	12.9	(0.7)	39.9	(1.1)	31.6	(0.8)	15.6	(0.6)	12.0	(0.5)	36.8	(0.9)	33.7	(0.8)	17.5	(0.7)
Partners	Algeria	31.9	(0.8)	42.9	(0.9)	11.3	(0.5)	13.9	(0.6)	27.0	(0.8)	40.8	(1.0)	18.1	(0.6)	14.1	(0.5)	26.7	(0.7)	34.3	(0.9)	26.3	(0.8)	12.7	(0.6)
Ра	Brazil B-S-I-G (China)	28.6	(0.5)	45.7 49.3	(0.6)	14.9	(0.5)	7.3	(0.4)	45.7 26.7	(0.6)	43.5	(0.5)	14.6	(0.5)	6.8 8.5	(0.3)	13.5	(0.7)	41.4	(0.6)	28.5	(0.5)	10.5	(0.3)
	Bulgaria	16.5	(0.6)	39.1	(0.8)	29.3	(0.8)	15.1	(0.6)	25.1	(0.9)	35.3	(0.7)	26.7	(0.7)	12.9	(0.6)	27.3	(0.9)	32.3	(0.7)	26.9	(0.8)	13.5	(0.5)
	CABA (Argentina)	31.9	(1.8)	49.0	(1.6)	13.7	(0.9)	5.4	(0.8)	38.8	(2.0)	41.4	(1.8)	15.1	(1.1)	4.7	(0.7)	39.4	(2.2)	38.2	(1.6)	15.5	(1.0)	6.8	(0.9)
	Colombia Costa Rica	13.6 29.2	(0.5)	51.4 37.9	(0.7)	24.4 19.4	(0.5)	10.6	(0.4)	23.3 43.5	(0.8)	30.9	(0.7)	16.3	(0.6)	9.1	(0.4)	16.4 35.3	(0.5)	42.0 34.0	(0.7)	28.8 19.5	(0.7)	12.9	(0.5)
	Croatia	20.9	(0.7)	53.1	(0.7)	19.8	(0.7)	6.2	(0.3)	35.5	(0.9)	40.9	(0.7)	18.3	(0.6)	5.3	(0.3)	23.0	(0.8)	45.1	(0.7)	24.6	(0.6)	7.2	(0.4)
	Cyprus*	22.6	(0.6)	45.1	(0.8)	23.7	(0.6)	8.6	(0.4)	28.1	(0.6)	39.9	(0.7)	23.7	(0.6)	8.3	(0.3)	23.7	(0.6)	38.5	(0.7)	28.1	(0.7)	9.7	(0.5)
	Dominican Republic FYROM	13.4	(0.7)	40.9	(0.9)	29.0 24.7	(0.8)	16.7 9.8	(0.8)	13.7	(0.7)	36.1 46.0	(0.8)	31.8	(0.7)	18.4	(0.8)	14.3	(0.6)	35.1 36.4	(1.0)	32.5	(0.9)	18.1	(0.8)
	Georgia	8.4	(0.4)	41.0	(0.9)	32.0	(0.8)	18.5	(0.7)	14.0	(0.7)	43.0	(0.8)	28.8	(0.7)	14.1	(0.5)	10.9	(0.6)	38.5	(0.8)	32.9	(0.8)	17.7	(0.6)
	Hong Kong (China)	17.3	(0.9)	54.7	(1.0)	23.0	(0.9)	5.0	(0.5)	24.8	(1.0)	47.3	(0.9)	22.7	(1.0)	5.3	(0.5)	18.9	(0.9)	47.3	(0.9)	27.6	(0.9)	6.2	(0.5)
	Indonesia	30.6	(1.0)	49.9	(0.9)	11.6	(0.6)	7.9	(0.4)	33.0	(1.1)	46.6	(0.9)	12.4	(0.6)	8.0	(0.4)	21.2	(0.7)	46.6	(0.7)	20.0	(0.8)	12.2	(0.5)
	Jordan Kosovo	21.8	(0.7)	39.5 42.5	(0.8)	23.7	(0.6)	14.9	(0.6)	21.2	(0.6)	38.0 42.7	(0.7)	26.8 22.6	(0.7)	14.0	(0.5)	20.5	(0.6)	35.8 37.7	(0.7)	26.8 28.2	(0.7)	17.0 13.4	(0.6)
	Lebanon	20.0	(1.1)	37.1	(1.1)	23.3	(0.9)	19.6	(1.2)	17.5	(0.9)	39.4	(0.9)	25.5	(1.0)	17.6	(1.2)	17.2	(0.8)	33.0	(0.9)	30.2	(1.0)	19.6	(1.0)
	Lithuania	27.6	(0.7)	41.0	(0.7)	21.0	(0.6)	10.4	(0.5)	32.5	(0.9)	35.4	(0.7)	22.0	(0.7)	10.1	(0.4)	25.8	(0.8)	36.1	(0.7)	26.2	(0.8)	11.9	(0.5)
	Macao (China) Malta	25.4 22.1	(0.7)	55.7 50.4	(0.7)	14.7 21.4	(0.7)	4.2 6.0	(0.3)	44.4 23.4	(0.7)	40.3	(0.8)	12.0	(0.6)	3.2 6.9	(0.3)	27.0	(0.7)	48.5 41.3	(0.7)	19.3 29.1	(0.7)	5.2 9.3	(0.3)
	Moldova	8.3	(0.7)	49.4	(0.8)	26.9	(0.0)	15.3	(0.4)	14.0	(0.6)	48.4	(0.7)	26.7	(0.7)	10.9	(0.4)	14.3	(0.0)	42.8	(0.8)	29.1	(0.8)	13.4	(0.7)
	Montenegro	18.2	(0.6)	42.8	(0.8)	25.7	(0.7)	13.4	(0.5)	20.6	(0.6)	41.8	(0.7)	26.3	(0.7)	11.3	(0.5)	23.0	(0.6)	38.4	(0.7)	26.7	(0.7)	11.9	(0.5)
	Peru Qatar	14.1	(0.5)	52.8 44.0	(0.7)	25.2 29.3	(0.6)	7.9	(0.4)	20.7	(0.7)	46.8	(0.8)	24.9 29.5	(0.7)	7.6 12.1	(0.4)	16.3	(0.6)	43.1	(0.7)	30.1	(0.6)	10.5 13.4	(0.5)
	Romania	16.7	(0.4)	44.0	(0.5)	22.4	(0.5)	14.1	(0.6)	30.0	(0.4)	45.8	(0.5)	16.0	(0.5)	8.2	(0.5)	17.4 25.9	(0.4)	38.5 44.7	(0.5)	21.1	(0.5)	8.4	(0.4)
	Russia	13.0	(0.7)	47.4		29.9	(0.6)	9.6	(0.5)	19.5	(0.7)	40.4	(0.7)	31.1	(0.7)	9.0	(0.5)	15.2	(0.7)	41.3	(0.8)	33.3	(0.7)	10.3	(0.4)
	Singapore	13.9	(0.5)	53.2	(8.0)	25.9	(0.6)	7.0	(0.4)	20.4	(0.6)	46.8	(0.7)	24.9	(0.5)	7.9	(0.4)	16.1	(0.5)	44.6	(0.8)	29.7	(0.6)	9.6	(0.5)
	Chinese Taipei Thailand	24.0 15.4	(0.7)	47.7 61.2	(0.7)	22.1 16.1	(0.6)	6.2 7.2	(0.3)	23.4 16.5	(0.6)	43.3 53.8	(0.6)	25.0 21.2	(0.7)	8.4	(0.4)	20.0 17.3	(0.6)	40.8 55.7	(0.6)	28.9 18.5	(0.6)	10.3	(0.4)
	Trinidad and Tobago	20.0	(0.7)	45.3	(0.0)	23.2	(0.8)	11.5		24.2	(0.7)	39.8	(0.9)	25.1	(0.0)	10.9		21.1	(0.6)	35.0	(0.6)	28.4	(0.7)	15.5	(0.4)
	Tunisia	15.3	(0.7)	38.9	(0.9)	25.1	(0.8)	20.7	(0.6)	22.7	(0.8)	36.0	(0.8)	26.3	(0.8)	15.0	(0.5)	16.9	(0.8)	36.2	(8.0)	29.9	(0.8)	17.0	(0.7)
	United Arab Emirates	14.4	(0.5)	41.5	(0.6)	29.6	(0.6)	14.5	(0.4)	18.8	(0.5)	38.7	(0.5)	28.2	(0.6)	14.3	(0.4)	16.3	(0.5)	36.1		31.0	(0.6)	16.6	(0.5)
	Uruguay Viet Nam	20.5	(0.7)	54.9 51.5	(0.8)	19.0 26.0	(0.6)	5.5	(0.4)	35.1 21.5	(0.8)	43.7 51.5	(0.8)	15.8 19.2	(0.6)	5.4 7.8	(0.4)	24.0	(0.8)	47.6 48.7	(1.0)	22.2	(0.8)	6.3 9.0	(0.4)
	Argentina**	21.9	(0.6)	51.5	(0.7)	17.8	(0.6)	8.8	(0.5)	26.6	(0.7)	45.5	(0.8)	19.9	(0.6)	8.0	(0.4)	27.6	(0.8)	41.7	(0.7)	20.5	(0.7)		(0.5)
	Kazakhstan**	6.4	(0.4)	35.4	(0.8)	38.2	(0.6)	20.0	(0.7)	7.1	(0.4)	36.3	(0.9)	37.1	(0.7)	19.4	(0.7)	7.7	(0.4)	26.5	(8.0)	39.9	(0.7)	25.9	(0.9)
	Malaysia**	11.1	(0.7)	46.9	(0.7)	29.6	(0.7)	12.4	(0.6)	16.2	(0.7)	44.6	(0.8)	29.5	(0.7)	9.7	(0.5)	8.5	(0.6)	37.9	(0.8)	36.2	(0.8)	17.4	(0.8)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** In Indian Action (1.1787/888933436477)



[Part 2/2]

Table II.2.19 Perceived feedback from science teachers

				Percenta	ge of stud	ents who	reported	that the	following	things ha	ppen in t	heir scien	ce lesson	s		
		The teac	her tells n	ne how I	an impro	ve my per	formance			The teach	er advise	s me on h	ow to read	ch my lear	ning goals	6
		ever ost never	Some	lessons	Many	lessons	or á	lesson lmost lesson		ever ost never	Some	lessons	Many	lessons	or a	lesson lmost lesson
	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E
Australia	25.7	(0.6)	41.0	(0.5)	26.1	(0.6)	7.2	(0.3)	28.9	(0.6)	39.5	(0.5)	24.5	(0.5)	7.1	(0.3
Australia Austria	37.7	(1.1)	35.3	(0.7)	18.4	(0.9)	8.6	(0.4)	46.8	(1.0)	29.3	(0.7)	16.1	(0.7)	7.9	(0.5
Belgium	31.3	(0.7)	43.4	(0.5)	19.2	(0.5)	6.1	(0.4)	37.3	(0.8)	39.3	(0.6)	17.3	(0.5)	6.2	(0.3
Canada	23.1	(0.6)	38.0	(0.5)	29.0	(0.5)	9.9	(0.3)	25.9	(0.7)	35.5	(0.5)	28.1	(0.5)	10.5	(0.4
Chile Czech Republic	24.3	(0.8)	36.6	(0.7)	26.7	(0.6)	12.5	(0.6)	26.5	(0.8)	34.9	(0.7)	24.9	(0.6)	13.7	(0.6
Denmark	26.3 37.4	(0.7)	45.1 43.7	(0.7)	21.4 15.9	(0.6)	7.2	(0.4)	34.8 39.1	(0.7)	40.0 41.5	(0.7)	17.6 16.1	(0.5)	7.6 3.3	(0.3
Estonia	27.3	(0.7)	43.0	(0.8)	23.0	(0.8)	6.7	(0.4)	32.2	(0.8)	39.0	(0.8)	21.6	(0.7)	7.2	(0.2
Finland	36.7	(0.9)	44.5	(0.8)	15.4	(0.6)	3.4	(0.4)	36.4	(0.9)	43.3	(0.8)	16.0	(0.6)	4.2	(0.3
France	29.8	(0.7)	41.8	(0.8)	20.2	(0.6)	8.2	(0.4)	35.4	(0.7)	37.1	(0.7)	18.7	(0.6)	8.8	(0.4
Germany	34.7	(0.8)	44.2	(0.8)	17.0	(0.5)	4.0	(0.3)	47.2	(0.8)	34.3	(0.8)	14.5	(0.6)	3.9	(0.3
Greece	29.0	(1.1)	34.3	(0.8)	26.0	(0.9)	10.6	(0.6)	30.9	(1.0)	33.5	(0.8)	23.5	(0.8)	12.0	(0.6
Hungary	22.8	(0.8)	42.4	(0.8)	26.1	(0.8)	8.6	(0.5)	31.6	(0.9)	36.3	(0.8)	23.5	(0.8)	8.6	(0.5
Iceland	49.5	(1.0)	32.0	(0.9)	13.8	(0.6)	4.8	(0.4)	48.9	(1.0)	31.6	(0.9)	14.6	(0.6)	4.8	(0.4
Ireland	26.4	(0.9)	43.5	(0.7)	24.6	(0.8)	5.5	(0.4)	30.9	(1.0)	40.2	(0.8)	22.3	(0.7)	6.6	(0.4
Israel	33.9	(0.9)	32.6	(0.6)	23.0	(0.6)	10.5	(0.5)	35.7	(0.9)	30.0	(0.6)	22.3	(0.7)	12.0	(0.6
Italy	23.3	(0.7)	40.9	(0.7)	27.4	(0.8)	8.4	(0.4)	27.0	(0.9)	39.0	(0.8)	24.7	(0.6)	9.3	(0.4
Japan	33.7	(0.9)	35.4	(0.7)	21.7	(0.7)	9.3	(0.4)	37.6	(0.8)	34.2	(0.7)	20.2	(0.6)	8.0	(0.4
Korea	44.2 21.3	(1.0)	33.1 37.1	(0.8)	16.9 30.3	(0.6)	5.8 11.3	(0.4)	36.3 26.3	(0.8)	36.5 33.6	(0.8)	20.1	(0.6)	7.1 10.9	(0.4
Latvia Luxembourg	37.0	(0.7)	35.7	(0.8)	19.0	(0.6)	8.3	(0.5)	41.9	(0.8)	33.6	(0.7)	17.3	(0.7)	8.3	(0.5
Mexico	18.4	(0.8)	34.2	(0.6)	30.7	(0.8)	16.7	(0.4)	19.4	(0.7)	32.7	(0.7)	28.8	(0.7)	19.1	(0.4
Netherlands	26.9	(0.9)	46.0	(0.8)	22.9	(0.8)	4.2	(0.3)	27.9	(0.8)	45.4	(0.8)	22.1	(0.8)	4.7	(0.4
New Zealand	18.1	(0.7)	40.6	(0.8)	31.6	(0.8)	9.7	(0.6)	22.7	(0.7)	39.2	(0.8)	28.1	(0.7)	10.0	(0.5
Norway	25.9	(0.9)	46.3	(0.7)	21.5	(0.7)	6.4	(0.3)	28.8	(0.9)	43.6	(0.8)	21.1	(0.7)	6.5	(0.4
Poland	17.0	(0.7)	39.9	(0.8)	32.6	(0.8)	10.5	(0.5)	30.6	(0.9)	34.1	(0.8)	25.8	(0.8)	9.5	(0.5
Portugal	19.3	(0.7)	44.3	(0.9)	26.4	(0.9)	10.0	(0.5)	23.4	(0.7)	40.8	(0.9)	24.7	(0.8)	11.0	(0.5
Slovak Republic	24.8	(0.8)	44.3	(0.8)	22.1	(0.6)	8.7	(0.5)	32.5	(1.0)	38.1	(0.8)	20.1	(0.6)	9.2	(0.5
Slovenia	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	n
Spain	25.0	(0.8)	37.3	(0.6)	27.3	(0.8)	10.4	(0.5)	27.2	(0.8)	35.6	(0.7)	25.9	(0.8)	11.3	(0.5
Sweden	27.1	(1.1)	44.0	(0.8)	20.9	(0.8)	8.1	(0.5)	28.9	(1.1)	41.9	(0.9)	20.7	(0.7)	8.5	(0.5
Switzerland	39.4	(1.1)	34.9	(0.9)	18.7	(0.7)	7.0	(0.5)	40.1	(1.1)	32.8	(0.9)	19.2	(0.8)	7.8	(0.5
Turkey	17.8	(0.8)	39.3	(0.9)	28.4	(0.8)	14.5	(0.6)	17.4	(0.8)	36.9	(0.8)	29.4	(0.8)	16.3	(0.7
United Kingdom United States	15.1 22.4	(0.6)	42.6 35.1	(0.8)	31.9 27.7	(0.8)	10.3 14.8	(0.5)	18.2 23.9	(0.6)	40.7 32.8	(0.7)	30.5 27.4	(0.7)	10.6 15.9	(0.6
												(0.7)		(0.8)		(0.6
OECD average	28.0	(0.1)	39.8	(0.1)	23.6	(0.1)	8.6	(0.1)	31.7	(0.1)	36.9	(0.1)	22.3	(0.1)	9.1	(0.1)
Albania	8.1	(0.4)	32.4	(0.7)	35.4	(0.7)	24.0	(0.7)	8.8	(0.6)	30.8	(0.6)	34.9	(0.8)	25.5	(0.8
Algeria	24.1	(0.7)	38.7	(1.0)	18.6	(0.6)	18.6	(0.6)	19.4	(0.6)	36.3	(1.0)	20.5	(0.5)	23.7	(0.8
Albania Algeria Brazil	19.9	(0.5)	42.3	(0.6)	25.3	(0.5)	12.6	(0.4)	20.1	(0.5)	37.4	(0.6)	25.9	(0.6)	16.5	(0.4
B-S-J-G (China)	18.4	(0.9)	46.9	(0.8)	24.9	(0.8)	9.8	(0.4)	15.5	(0.9)	44.9	(0.8)	27.4	(0.7)	12.1	(0.5
Bulgaria	15.1	(0.6)	34.0	(0.8)	33.6	(0.8)	17.4	(0.7)	21.8	(0.7)	31.5	(0.7)	29.4	(0.8)	17.2	(0.7
CABA (Argentina)	32.0	(1.7)	42.4	(1.3)	18.8	(1.1)	6.8	(0.9)	34.6	(2.1)	39.2	(1.5)	16.9	(1.0)	9.2	8.0)
Colombia	14.5	(0.6)	41.9	(0.7)	29.2	(0.6)	14.4	(0.5)	16.2	(0.7)	38.0	(0.7)	28.0	(0.6)	17.7	(0.5
Costa Rica	27.8	(0.8)	36.6	(0.8)	22.7	(0.6)	12.9	(0.5)	26.7	(0.6)	33.7	(0.7)	22.5	(0.6)	17.1	(0.6
Croatia	25.0	(0.8)	44.8	(0.7)	22.7	(0.7)	7.5	(0.4)	27.3	(0.8)	41.5	(0.6)	22.8	(0.6)	8.4	(0.4
Cyprus* Dominican Republic	22.2 12.0	(0.7)	38.5 33.0	(0.8)	28.2 34.4	(0.7)	11.2 20.6	(0.4)	24.3	(0.7)	35.9 29.0	(0.7)	27.1 33.1	(0.6)	12.6 26.0	(0.5
FYROM	11.4	(0.5)	31.6	(0.9)	33.2	(0.8)	23.8	(0.6)	13.1	(0.5)	31.6	(0.7)	29.9	(0.7)	25.4	(0.6
Georgia	9.2	(0.5)	36.2	(0.8)	34.1	(0.8)	20.5	(0.6)	12.0	(0.5)	32.6	(0.7)	33.0	(0.7)	22.4	(0.6
Hong Kong (China)	18.1	(0.9)	47.3	(0.8)	27.6	(0.8)	7.0	(0.6)	20.1	(0.9)	46.7	(0.9)	26.0	(0.8)	7.2	(0.5
Indonesia	10.7	(0.5)	42.0	(0.8)	26.3	(0.7)	21.0	(0.6)	8.9	(0.4)	40.6	(0.8)	25.8	(0.8)	24.7	3.0)
Jordan	18.1	(0.6)	33.3	(0.6)	27.1	(0.6)	21.5	(0.7)	19.3	(0.7)	30.7	(0.7)	25.9	(0.7)	24.0	(0.7
Kosovo	20.7	(0.7)	32.2	(0.8)	30.0	(0.7)	17.2	(0.7)	21.9	(0.7)	30.1	(0.7)	25.7	(0.7)	22.3	(0.7
Lebanon	13.2	(0.7)	30.1	(1.0)	30.8	(1.0)	25.9	(1.1)	13.7	(0.8)	28.9	(1.0)	28.1	(0.9)	29.4	(1.0
Lithuania	22.2	(0.8)	36.1	(0.7)	27.6	(0.7)	14.1	(0.5)	28.1	(0.8)	33.0	(0.8)	25.3	(0.7)	13.6	(0.5
Macao (China)	29.6	(0.7)	47.6	(0.8)	18.3	(0.6)	4.4	(0.3)	28.1	(0.7)	46.8	(0.8)	19.4	(0.6)	5.7	(0.4
Malta	20.9	(0.6)	41.7	(0.8)	27.5	(0.7)	9.9	(0.5)	24.3	(0.8)	38.7	(0.8)	26.2	(0.7)	10.8	(0.6
Moldova	8.8	(0.4)	39.6	(0.8)	34.2	(0.8)	17.5	(0.7)	10.2	(0.5)	38.9	(0.8)	30.6	(0.8)	20.2	(0.8
Montenegro Peru	19.6 13.0	(0.5)	38.2 41.7	(0.8)	28.1 32.6	(0.8)	14.0 12.6	(0.6)	19.3 12.9	(0.6)	37.6 36.5	(0.6)	28.0 31.8	(0.7)	15.1 18.7	(0.5
Qatar	15.2	(0.5)	37.5	(0.7)	31.8	(0.6)	15.5	(0.8)	16.5	(0.5)	36.5	(0.7)	30.0	(0.6)	17.3	(0.4
Romania	14.2	(0.4)	45.5	(0.8)	28.4	(0.7)	11.9	(0.5)	18.3	(0.4)	44.9	(0.9)	24.4	(0.7)	12.3	(0.6
Russia	11.6	(0.0)	39.7	(0.7)	36.2	(0.7)	12.6	(0.5)	14.6	(0.7)	37.7	(0.8)	33.9	(0.9)	13.8	(0.5
Singapore	15.2	(0.5)	44.7	(0.8)	29.7	(0.6)	10.4	(0.4)	16.2	(0.5)	43.4	(0.8)	29.6	(0.6)	10.8	(0.4
Chinese Taipei	19.3	(0.5)	40.6	(0.5)	29.2	(0.6)	11.0	(0.4)	18.6	(0.6)	41.0	(0.7)	29.4	(0.6)	11.0	(0.4
Thailand	15.4	(0.5)	54.3	(0.8)	21.0	(0.6)	9.2	(0.5)	10.2	(0.5)	50.5	(0.9)	23.7	(0.7)	15.5	(0.6
Trinidad and Tobago	19.4	(0.7)	35.9	(0.8)	27.2	(0.8)	17.5	(0.6)	23.7	(0.6)	31.5	(0.8)	26.0	(0.8)	18.9	(0.7
Tunisia	12.8	(0.6)	34.9	(0.8)	30.7	(0.7)	21.6	(0.8)	14.6	(0.7)	34.0	(0.8)	27.8	(0.7)	23.7	(0.7
United Arab Emirates	15.4	(0.4)	35.9	(0.5)	30.6	(0.5)	18.0	(0.5)	17.3	(0.5)	34.4	(0.7)	28.9	(0.5)	19.5	(0.5
Uruguay	20.3	(0.8)	48.8	(0.9)	23.7	(0.6)	7.2	(0.5)	27.4	(0.7)	41.7	(0.9)	22.4	(0.7)	8.5	(0.5
Viet Nam	5.0	(0.3)	35.2	(0.9)	36.5	(0.9)	23.4	(0.8)	4.4	(0.4)	34.2	(0.7)	34.5	(0.6)	27.0	3.0)
Argentina**	21.3	(0.6)	43.1	(0.7)	23.1	(0.6)	12.5	(0.6)	23.4	(0.7)	38.4	(0.7)	22.2	(0.6)	16.0	(0.6
Kazakhstan**	6.3	(0.3)	24.5	(0.8)	40.4	(0.7)	28.9	(1.0)	6.2	(0.4)	22.0	(0.8)	39.7	(0.7)	32.1	(1.0
		(0.5)	37.6	(0.8)	35.5	(0.8)	18.1	(0.8)	8.0	(0.6)	35.4	(0.9)	35.6			

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** http://dx.doi.org/10.1787/888933436477



[Part 1/3]

Table II.2.20 Index of perceived feedback from science teachers, by student and school characteristics

Results based on students' reports

		7111 311	ıdents	L:114.				Бу эсп	ool socio-	conomic	prome		T	L - 44
	Ave	rage		ability s index	Bottom	quarter	Second	quarter	Third o	quarter	Тор q	uarter		botton arter
	Mean index	S.E.	S.D.	S.E.	Mean index	S.E.	Mean index	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.I
Australia	0.07	(0.01)	0.98	(0.01)	0.16	(0.03)	0.05	(0.03)	0.05	(0.04)	0.01	(0.03)	-0.16	(0.0
Austria	-0.21	(0.02)	1.02	(0.01)	0.07	(0.05)	-0.16	(0.07)	-0.27	(0.07)	-0.34	(0.05)	-0.41	(0.0
Belgium	-0.15	(0.02)	0.91	(0.01)	0.12	(0.04)	-0.08	(0.03)	-0.20	(0.04)	-0.33	(0.04)	-0.45	(0.0
Canada	0.21	(0.02)	1.00	(0.01)	0.31	(0.04)	0.22	(0.04)	0.24	(0.04)	0.08	(0.04)	-0.23	(0.0
Chile	0.16	(0.02)	1.02	(0.01)	0.32	(0.04)	0.28	(0.05)	0.11	(0.05)	-0.03	(0.04)	-0.35	(0.
Czech Republic	-0.08	(0.02)	0.91	(0.01)	-0.03	(0.04)	-0.04	(0.03)	-0.01	(0.04)	-0.25	(0.03)	-0.21	(0.
Denmark	-0.27	(0.02)	0.89	(0.01)	-0.18	(0.03)	-0.24	(0.03)	-0.32	(0.04)	-0.33	(0.04)	-0.15	(0.
Estonia	-0.08	(0.02)	0.93	(0.01)	0.04	(0.04)	0.02	(0.03)	-0.08	(0.03)	-0.30	(0.04)	-0.34	(0.
Finland	-0.27	(0.02)	0.92	(0.01)	-0.32	(0.04)	-0.30	(0.04)	-0.26	(0.05)	-0.22	(0.04)	0.10	(0.
France	-0.14	(0.01)	0.96	(0.01)	0.10	(0.03)	-0.06	(0.04)	-0.23	(0.03)	-0.28	(0.03)	-0.39	(0.
Germany	-0.28	(0.01)	0.89	(0.01)	-0.09	(0.04)	-0.18	(0.05)	-0.34	(0.03)	-0.42	(0.03)	-0.33	(0.
Greece	0.07	(0.01)	1.02	(0.01)	0.28	(0.04)	0.07	(0.05)	-0.02	(0.04)	-0.42	(0.05)	-0.32	(0.
Hungary	0.03	(0.03)	0.93	(0.01)	0.39	(0.05)	0.03	(0.04)	-0.02	(0.04)	-0.20	(0.03)	-0.59	(0.
Iceland	-0.44	(0.02)	1.02	(0.01)	-0.24	(0.04)	-0.44	(0.04)	-0.55	(0.03)	-0.52	(0.03)	-0.28	
	0.00		0.92						-0.03				-0.24	(0.
Ireland		(0.02)		(0.01)	0.14	(0.06)	0.01	(0.06)		(0.04)	-0.10	(0.04)		(0.
Israel	-0.04	(0.02)	1.10	(0.01)	0.37	(0.07)	0.07	(0.07)	-0.19	(0.06)	-0.41	(0.05)	-0.78	(0.
Italy	0.08	(0.02)	0.90	(0.01)	0.35	(0.04)	0.10	(0.04)	-0.05	(0.05)	-0.07	(0.04)	-0.43	(0.
Japan	-0.36	(0.02)	0.95	(0.01)	-0.33	(0.05)	-0.35	(0.05)	-0.33	(0.05)	-0.41	(0.03)	-0.08	(0.
Korea	-0.37	(0.02)	1.05	(0.01)	-0.27	(0.05)	-0.33	(0.05)	-0.45	(0.06)	-0.40	(0.05)	-0.12	(0.
Latvia	0.25	(0.02)	0.95	(0.01)	0.47	(0.05)	0.29	(0.04)	0.23	(0.04)	0.02	(0.05)	-0.45	(0.
Luxembourg	-0.18	(0.01)	1.05	(0.01)	-0.02	(0.04)	-0.06	(0.03)	-0.27	(0.03)	-0.33	(0.03)	-0.31	(0.
Mexico	0.40	(0.02)	1.04	(0.01)	0.67	(0.04)	0.45	(0.05)	0.32	(0.05)	0.19	(0.05)	-0.48	(0.
Netherlands	-0.06	(0.02)	0.88	(0.01)	0.11	(0.04)	0.06	(0.04)	-0.14	(0.05)	-0.24	(0.03)	-0.35	(0.
New Zealand	0.27	(0.02)	0.97	(0.01)	0.42	(0.05)	0.33	(0.04)	0.24	(0.05)	0.11	(0.04)	-0.31	(0
Norway	-0.01	(0.02)	0.97	(0.01)	0.10	(0.03)	0.02	(0.05)	-0.04	(0.05)	-0.12	(0.04)	-0.21	(0
Poland	0.21	(0.02)	0.93	(0.01)	0.31	(0.03)	0.28	(0.04)	0.23	(0.04)	0.04	(0.04)	-0.27	(0
Portugal	0.12	(0.02)	1.01	(0.01)	0.31	(0.03)	0.15	(0.04)	0.03	(0.05)	-0.06	(0.05)	-0.37	(0
Slovak Republic	-0.04	(0.02)	0.95	(0.01)	0.23	(0.04)	-0.04	(0.04)	-0.09	(0.04)	-0.20	(0.04)	-0.42	(0.
Slovenia	m	m	m	m	m	m	m	m	m	m	m	m	m	(0.
Spain	0.13	(0.02)	0.99	(0.01)	0.29	(0.04)	0.13	(0.06)	0.07	(0.06)	0.04	(0.06)	-0.25	(0.
Sweden	-0.02	(0.02)	1.02	(0.01)	0.04	(0.05)	0.06	(0.05)	-0.08	(0.05)	-0.09	(0.05)	-0.13	(0.
Switzerland	-0.02	(0.03)	1.02	(0.01)	-0.02	(0.05)	-0.19	(0.03)	-0.25	(0.05)	-0.41	(0.05)	-0.13	(0.
			0.99				0.42							
Turkey	0.35	(0.02)		(0.01)	0.42	(0.04)		(0.05)	0.31	(0.05)	0.26	(0.05)	-0.16	(0.
United Kingdom	0.37	(0.02)	0.93	(0.01)	0.54	(0.04)	0.41	(0.05)	0.32	(0.04)	0.23	(0.04)	-0.32	(0.
United States	0.32	(0.03)	1.11	(0.01)	0.50	(0.04)	0.34	(0.05)	0.32	(0.05)	0.14	(0.05)	-0.36	(0.
OECD average	-0.01	(0.00)	0.98	(0.00)	0.16	(0.01)	0.04	(0.01)	-0.05	(0.01)	-0.15	(0.01)	-0.31	(0.
Albania	0.69	(0.02)	0.86	(0.01)	0.68	(0.03)	0.73	(0.03)	0.70	(0.04)	0.66	(0.04)	-0.01	(0.
Algeria	0.28	(0.01)	0.88	(0.01)	0.32	(0.03)	0.37	(0.03)	0.28	(0.04)	0.16	(0.04)	-0.16	(0.
Brazil	0.17	(0.01)	0.96	(0.01)	0.20	(0.02)	0.15	(0.03)	0.17	(0.03)	0.18	(0.03)	-0.03	(0.
B-S-J-G (China)	0.25	(0.02)	0.93	(0.01)	0.24	(0.05)	0.25	(0.06)	0.25	(0.07)	0.26	(0.06)	0.02	(0.
Bulgaria	0.40	(0.02)	1.04	(0.01)	0.64	(0.05)	0.50	(0.04)	0.35	(0.05)	0.20	(0.04)	-0.44	(0.
CABA (Argentina)	-0.14	(0.04)	0.92	(0.02)	0.19	(0.05)	-0.11	(0.09)	-0.28	(0.07)	-0.34	(0.09)	-0.54	(0.
Colombia	0.38	(0.02)	0.93	(0.01)	0.54	(0.03)	0.39	(0.04)	0.35	(0.03)	0.27	(0.04)	-0.27	(0.
Costa Rica	0.08	(0.02)	1.10	(0.01)	0.23	(0.05)	0.16	(0.05)	-0.01	(0.05)	-0.05	(0.04)	-0.28	(0.
Croatia	0.05	(0.02)	0.94	(0.01)	0.29	(0.05)	0.17	(0.05)	0.03	(0.05)	-0.23	(0.04)	-0.52	(0.
Cyprus*	0.20	(0.02)	1.00	(0.01)	0.23	(0.03)	0.17	(0.03)	0.03	(0.03)	0.21	(0.03)	-0.16	(0.
Dominican Republic	0.65	(0.01)	0.95	(0.01)	0.37	(0.06)	0.13	(0.03)	0.62	(0.03)	0.59	(0.05)	-0.18	(0
FYROM	0.63	(0.02)	0.95	(0.01)	0.77	(0.03)	0.67	(0.07)	0.56	(0.04)	0.53	(0.03)	-0.16	(0
			0.89										-0.04	
Georgia	0.64	(0.01)	0.87	(0.01)	0.69	(0.03)	0.64	(0.04)	0.60	(0.04)	0.65	(0.03)		(0
Hong Kong (China)	0.16	(0.03)		(0.01)	0.28	(0.04)	0.16	(0.05)	0.13	(0.07)	0.09	(0.05)	-0.19	(0.
Indonesia	0.33	(0.02)	0.80	(0.01)	0.40	(0.04)	0.39	(0.04)	0.32	(0.04)	0.23	(0.03)	-0.18	(0
Jordan Kanana	0.46	(0.02)	0.97	(0.01)	0.45	(0.04)	0.46	(0.04)	0.44	(0.04)	0.49	(0.04)	0.04	(0.
Kosovo	0.36	(0.02)	0.92	(0.01)	0.30	(0.03)	0.29	(0.03)	0.38	(0.03)	0.46	(0.04)	0.16	(0
Lebanon	0.62	(0.03)	0.92	(0.02)	0.75	(0.08)	0.65	(0.06)	0.62	(0.04)	0.48	(0.05)	-0.27	(0
Lithuania	0.20	(0.02)	1.07	(0.01)	0.48	(0.04)	0.22	(0.06)	0.13	(0.05)	-0.03	(0.04)	-0.51	(0
Macao (China)	-0.12	(0.01)	0.88	(0.01)	-0.05	(0.02)	-0.15	(0.03)	-0.11	(0.02)	-0.18	(0.02)	-0.13	(0
Malta	0.20	(0.02)	0.93	(0.01)	0.28	(0.04)	0.21	(0.03)	0.09	(0.03)	0.22	(0.03)	-0.06	(0
Moldova	0.54	(0.02)	0.79	(0.01)	0.62	(0.03)	0.57	(0.04)	0.51	(0.03)	0.46	(0.03)	-0.17	(0
Montenegro	0.33	(0.01)	1.03	(0.01)	0.53	(0.03)	0.36	(0.03)	0.39	(0.03)	0.10	(0.03)	-0.43	(0
Peru	0.40	(0.02)	0.85	(0.01)	0.48	(0.03)	0.48	(0.03)	0.36	(0.04)	0.30	(0.04)	-0.17	(0.
Qatar	0.45	(0.01)	0.97	(0.01)	0.47	(0.02)	0.49	(0.02)	0.51	(0.02)	0.34	(0.02)	-0.13	(0.
Romania	0.24	(0.01)	0.75	(0.01)	0.30	(0.03)	0.25	(0.03)	0.23	(0.03)	0.18	(0.03)	-0.12	(0.
Russia	0.43	(0.02)	0.89	(0.01)	0.60	(0.04)	0.39	(0.04)	0.41	(0.05)	0.34	(0.05)	-0.25	(0.
Singapore	0.31	(0.01)	0.93	(0.01)	0.36	(0.02)	0.33	(0.02)	0.34	(0.03)	0.22	(0.04)	-0.14	(0.
Chinese Taipei	0.24	(0.02)	0.99	(0.01)	0.33	(0.04)	0.29	(0.04)	0.22	(0.04)	0.15	(0.04)	-0.18	(0.
	0.24	(0.02)	0.83	(0.01)	0.33	(0.04)	0.32	(0.04)	0.27	(0.03)	0.15	(0.03)	-0.18	(0.
	0.26	(0.02)	1.02	(0.01)	0.51	(0.04)	0.32	(0.04)	0.27	(0.03)	0.13	(0.03)	-0.10	(0
Thailand		(0.02)	0.93	(0.01)	0.51	(0.03)	0.47	(0.04)	0.59	(0.05)	0.12	(0.03)	-0.39	(0.
Thailand Trinidad and Tobago	0.55		1.02	(0.01)										
Thailand Trinidad and Tobago Tunisia	0.55	(0.02)			0.58	(0.04)	0.53	(0.04)	0.55	(0.04)	0.35	(0.03)	-0.23	(0.
Thailand Trinidad and Tobago Tunisia United Arab Emirates	0.50	(0.02)			0.14	(0.05)							0.40	
Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	0.50 0.05	(0.02)	0.90	(0.01)	0.14	(0.05)	0.21	(0.03)	-0.04 0.52	(0.03)	-0.04 0.42	(0.03)	-0.18 -0.19	
Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	0.50 0.05 0.52	(0.02) (0.02)	0.90 0.70	(0.01) (0.01)	0.61	(0.03)	0.51	(0.04)	0.52	(0.03)	0.42	(0.04)	-0.19	(0.
Thailand Trinidad and Tobago	0.50 0.05	(0.02)	0.90	(0.01)										(O. (O. (O.

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

* Coverage is too small to ensure comparability (see Annex A4).

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Table II.2.20 Index of perceived feedback from science teachers, by student and school characteristics

Nes	ults based on stude	iiis re	ports	В	y schoo	l locatio	on				By type	of sch	ool			E	By educa	ation lev	/el	
			l area illage		wn 000	Ci	ity									wer ndary		oper ondary		
		(fewe	er than people)		0 000 ple)	(over 1 peo	00 000 ple)		ty – I area	Public	+	vate		ate – blic	edu	cation ED 2)	educ	cation ED 3)		ED 3 – ED 2
		Mean index	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.E.	Mean index S.E.	Mean index		Dif.	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.E.
9	Australia	0.03	(0.09)	0.11	(0.03)	0.05	(0.02)	0.02	(0.09)	0.08 (0.02			-0.03	(0.03)	0.06	(0.01)	0.17	(0.03)	0.12	(0.04)
OECD	Austria Belgium	-0.13 -0.28	(0.10)	-0.23 -0.21	(0.03)	-0.18 -0.02	(0.04)	-0.05 0.25	(0.11)	-0.21 (0.02 w v		(0.06) W	0.05 w	(0.07) W	0.09	(0.13)	-0.21 -0.18	(0.02)	-0.30 -0.55	(0.13)
	Canada	0.34	(0.04)	0.23	(0.03)	0.17	(0.02)	-0.17	(0.05)	0.22 (0.02		(0.07)	-0.17	(0.08)	0.22	(0.04)	0.21	(0.02)	-0.01	(0.04)
	Chile	0.51	(0.23)	0.27	(0.03)	0.10	(0.03)	-0.41	(0.23)	0.27 (0.04		(0.03)	-0.17	(0.05)	0.40	(0.09)	0.15	(0.02)	-0.26	(0.09)
	Czech Republic	0.11	(0.05)	-0.09	(0.02)	-0.17	(0.03)	-0.27	(0.07)	-0.10 (0.02		(0.06)	0.19	(0.06)	-0.02	(0.02)	-0.16	(0.02)	-0.13	(0.03)
	Denmark Estonia	0.07	(0.05)	-0.26 -0.11	(0.02)	-0.32 -0.15	(0.06)	-0.08 - 0.22	(0.08)	-0.25 (0.02 -0.07 (0.02		(0.06)	-0.05 -0.12	(0.06)	-0.27 -0.08	(0.02)	0.02	(0.11)	0.11	(0.11)
	Finland	-0.44	(0.05)	-0.30	(0.02)	-0.14	(0.04)	0.30	(0.06)	-0.28 (0.02			0.06	(0.07)	-0.27	(0.02)	C.02	(0.11) C	C	(0.11) C
	France	0.06	(0.06)	-0.13	(0.02)	-0.18	(0.03)	-0.24	(0.07)	-0.13 (0.02) -0.14	(0.03)	-0.01	(0.03)	0.09	(0.03)	-0.20	(0.02)	-0.29	(0.03)
	Germany	-0.12		-0.27	(0.02)	-0.31	(0.04)	-0.19	(0.12)	-0.25 (0.02		(0.08)	-0.21	(0.09)	-0.28	(0.02)	-0.21	(0.06)	0.06	(0.07)
	Greece Hungary	0.27	(0.11)	0.09	(0.04)	-0.02 -0.07	(0.04)	-0.29 -0.68	(0.11)	0.06 (0.03		(0.08) (0.04)	-0.05	(0.09)	0.36	(0.06)	-0.01	(0.03)	-0.31 -0.41	(0.06)
	Iceland	-0.23	(0.10)	-0.44	(0.02)	-0.57	(0.03)	-0.35	(0.05)	-0.43 (0.02			-0.03	(0.03) C	-0.44	(0.02)	m	(0.02)	m	(0.00) m
	Ireland	0.00	(0.05)		(0.03)	-0.04	(0.04)	-0.04	(0.06)	0.09 (0.03		(0.03)	-0.16	(0.04)	0.05	(0.02)	-0.07	(0.03)	-0.12	(0.03)
	Israel	0.08	(0.10)	0.04	(0.05)	-0.20	(0.06)	-0.28	(0.11)	m n			m	m	-0.01	(0.05)	-0.04	(0.03)	-0.03	(0.06)
	Italy	0.24	(0.05)	0.07	(0.03)	0.04	(0.04)	-0.20	(0.06)	0.06 (0.02			0.17	(0.07)	0.69	(0.07)	0.07	(0.02)	-0.61	(0.07)
	Japan Korea	C	c	-0.38 -0.33	(0.04)	-0.35 -0.37	(0.02)	C C	c c	-0.38 (0.02 -0.36 (0.03		(0.03)	-0.01	(0.04)	-0.15	m (0.05)	-0.36 -0.39	(0.02)	-0.24	(0.06)
	Latvia	0.44	(0.04)	0.27	(0.03)	0.07	(0.02)	-0.36	(0.06)	0.24 (0.02	-	(0.04)	0.22	(0.26)	0.26	(0.03)	0.13	(0.02)	-0.13	(0.11)
	Luxembourg	m	m	-0.17	(0.02)	-0.20	(0.02)	m	m	-0.21 (0.02	0.03	(0.04)	0.18	(0.04)	-0.08	(0.02)	-0.31	(0.02)	-0.23	(0.03)
	Mexico	0.72	(0.05)	0.42	(0.04)	0.28	(0.03)	-0.44	(0.06)	0.40 (0.02		(0.08)	-0.03	(0.08)	0.57	(0.04)	0.29	(0.03)	-0.28	(0.04)
	Netherlands	0.29	(O 14)	-0.06	(0.03)	-0.06 0.21	(0.05)	-0.07	(O 14)	-0.04 (0.03			-0.05	(0.05)	0.01	(0.02)	-0.24	(0.03)	-0.24	(0.04)
	New Zealand Norway	-0.01	(0.14)	0.33	(0.03)	0.21	(0.03)	0.00	(0.14)	0.26 (0.02		(0.05)	0.09	(0.05)	-0.01	(0.07)	0.26 c	(0.02) C	-0.01	(0.07)
	Poland	0.31	(0.03)	0.23	(0.03)	0.04	(0.04)	-0.27	(0.05)	0.22 (0.02		(0.07)	-0.26	(0.08)	0.21	(0.02)	C	С	С	С
	Portugal	0.45	(0.04)	0.12	(0.02)	0.06	(0.06)	-0.38	(0.07)	0.11 (0.02		(0.14)	0.14	(0.14)	0.30	(0.03)	-0.03	(0.03)	-0.32	(0.04)
	Slovak Republic	0.22	(0.05)	-0.04	(0.02)	-0.33	(0.05)	-0.55	(0.08)	-0.03 (0.02	0.06	(0.05)	-0.02	(0.06)	0.08	(0.03)	-0.14	(0.03)	-0.23	(0.04)
	Slovenia	0.39	(0.10)	0.13	(0.02)	0.10	(O O4)	-0.28	(0.11)	C 0	0 16	(0.04)	C	(0.05)	0.13	(0.02)	С	С	С	С
	Spain Sweden	0.39	(0.10)	-0.02	(0.02)	-0.03	(0.04)	-0.26	(0.11)	0.11 (0.03		(0.04)	-0.05	(0.05)	-0.02	(0.02)	-0.15	(0.26)	-0.13	(0.26)
	Switzerland	-0.24	(0.09)	-0.21	(0.03)	-0.24	(0.06)	0.01	(0.10)	-0.23 (0.02		(0.14)	0.09	(0.14)	-0.19	(0.03)	-0.39	(0.04)	-0.19	(0.05)
	Turkey	С	С	0.33	(0.04)	0.36	(0.03)	С	С	0.34 (0.02	0.46	(0.10)	0.12	(0.10)	0.50	(0.11)	0.34	(0.02)	-0.16	(0.11)
	United Kingdom	0.29	(0.08)	0.34	(0.03)	0.41	(0.04)	0.12	(0.09)	0.37 (0.02		(0.05)	-0.28	(0.06)	0.40	(0.11)	0.37	(0.02)	-0.03	(0.11)
	United States	0.26	(0.07)	0.28	(0.03)	0.38	(0.05)	0.12	(0.09)	0.33 (0.02	0.18	(0.14)	-0.15	(0.14)	0.50	(0.05)	0.30	(0.03)	-0.19	(0.06)
	OECD average	0.14	(0.02)	0.00	(0.01)	-0.05	(0.01)	-0.18	(0.02)	0.01 (0.00	0.02	(0.02)	0.00	(0.02)	0.12	(0.01)	-0.03	(0.01)	-0.19	(0.02)
SIS	Albania	0.70	(0.03)	0.70	(0.03)	0.67	(0.03)	-0.03	(0.05)	0.69 (0.02		(0.05)	-0.02	(0.06)	0.72	(0.03)	0.68	(0.02)	-0.04	(0.03)
Partners	Algeria Brazil	0.33	(0.04)	0.29	(0.02)	0.22	(0.03)	-0.11 -0.13	(0.06)	0.28 (0.01		(0.04)	0.05	(0.04)	0.34	(0.01)	0.10	(0.03)	-0.24	(0.04)
Ра	B-S-J-G (China)	0.28	(0.07)	0.10	(0.04)	0.20	(0.04)	-0.08	(0.06)	0.23 (0.02	-	(0.04)	0.03	(0.10)	0.20	(0.03)	0.03	(0.01)	-0.34	
	Bulgaria	0.47	(0.09)	0.48	(0.02)	0.28	(0.03)	-0.18	(0.10)	0.40 (0.02		C	С	C	0.60	(0.18)	0.40	(0.02)	-0.20	(0.18)
	CABA (Argentina)	m	m	С	С	-0.14	(0.04)	m	m	-0.01 (0.06		(0.05)	-0.26	(0.08)	-0.13	(0.04)	-0.32	(0.08)	-0.19	(0.09)
	Colombia	0.50	(0.06)	0.39	(0.04)	0.32	(0.02)	-0.18	(0.06)	0.38 (0.02			-0.01	(0.05)	0.48	(0.02)	0.32	(0.02)	-0.16	(0.03)
	Costa Rica Croatia	0.07 c	(0.05)	0.07	(0.03)	0.16	(0.06)	0.10	(0.07) C	0.08 (0.02		(0.06) (0.18)	-0.02 -0.11	(0.07)	0.16 c	(0.03)	0.00	(0.03)	-0.16	(0.04) C
	Cyprus*	0.37	(0.05)	0.19	(0.02)	0.22	(0.02)	-0.15	(0.06)	0.17 (0.01		(0.04)	0.20	(0.04)	0.32	(0.05)	0.20	(0.02)	-0.13	
	Dominican Republic	0.80	(0.07)	0.66	(0.03)	0.57	(0.05)	-0.23	(0.09)	0.69 (0.03		(0.04)	-0.13	(0.05)	0.70	(0.06)	0.64	(0.02)	-0.06	(0.07)
	FYROM	0.57	(0.06)	0.58	(0.02)	0.55	(0.02)	-0.02	(0.07)	0.57 (0.01		(0.07)	0.02	(0.07)	С	С	0.56	(0.01)	С	С
	Georgia	0.70	(0.03)	0.64	(0.03)	0.61	(0.02)	-0.09	(0.04)	0.62 (0.01		(0.07)	0.29	(0.07)	0.63	(0.03)	0.65	(0.02)	0.01	(0.03)
	Hong Kong (China) Indonesia	0.42	m (0.03)	0.33	m (0.02)	0.16	(0.03)	-0.21	m (0.05)	0.20 (0.04		(0.03) (0.03)	-0.04 0.06	(0.05)	0.10	(0.03)	0.20	(0.03)	0.10	(0.03)
	Jordan	0.46	(0.04)	0.47	(0.03)		(0.03)	-0.01	(0.05)	0.44 (0.02		(0.03)	0.09	(0.04)	0.46	(0.02)	m	m	m	m
	Kosovo		(0.06)		(0.02)		(0.03)	-0.04	(0.07)	0.35 (0.02	0.56	(0.06)		(0.06)		(0.03)		(0.02)		(0.04)
	Lebanon	0.75	(0.09)	0.62	(0.03)	0.50	(0.06)	-0.25	(0.11)	0.62 (0.04		(0.04)	0.00	(0.06)	0.67	(0.06)	0.60	(0.03)		(0.06)
	Lithuania Macao (China)	0.41 c	(0.05) C	0.19 c	(0.03)	-0.12	(0.03)	-0.32	(0.05) C	0.20 (0.02 c		(0.20)	-0.11 c	(0.20) C		(0.02)	-0.20	(0.02)	-0 17	(0.02)
	Malta	0.28		0.18	(0.02)	m	(0.01)	m	m	0.22 (0.02		(0.01)	-0.06	(0.03)	-0.03	(0.02) C	0.20	(0.02)	-0.17	(0.02)
	Moldova	0.59	(0.02)	0.53	(0.03)	0.44	(0.04)	-0.15	(0.04)	0.55 (0.02) c	С	С	C	0.55	(0.02)	0.42	(0.05)	-0.14	(0.06)
	Montenegro	C 45	C (0, 02)	0.39		0.21	(0.03)	C	(O, O.C.)	0.33 (0.01			С	C		(0.14)	0.32			(0.14)
	Peru Qatar	0.45	(0.03)	0.40	(0.02)	0.29	(0.05)	-0.15 0.08	(0.06)	0.42 (0.02		(0.04)	-0.08 0.01	(0.04)	0.52	(0.03)	0.36	(0.02)	-0.15 0.02	(0.03)
	Romania	0.37		0.47	(0.01)	0.45	(0.01)	-0.28	(0.03)	0.45 (0.01			0.01 C	(0.02) C		(0.02)	0.46 m	(0.01) m	0.02 m	(0.02) m
	Russia		(0.04)		(0.03)		(0.03)	-0.21	(0.05)	0.43 (0.02			С	С		(0.02)		(0.04)		(0.04)
	Singapore	m	m	m	m	0.32	(0.01)	m	m	0.30 (0.01	0.40	(0.06)	0.10	(0.06)	0.45	(0.09)	0.31	(0.01)	-0.15	(0.10)
	Chinese Taipei	C 40	(O, O.4)	0.31	(0.02)	0.20	(0.02)	0.25	(O, O6)	0.25 (0.02		(0.03)		(0.04)		(0.02)	0.16		-0.23	(0.03)
	Thailand Trinidad and Tobago	0.40		0.26	(0.02)	0.16 m	(0.04) m	-0.25	(0.06) m	0.26 (0.02		(0.04)	0.01 -0.13	(0.04)	0.38	(0.03)	0.22	(0.02)	-0.16 -0.07	(0.03)
	Tunisia		(0.04)		(0.02)	0.49	(0.05)	-0.09	(0.11)	0.56 (0.02		(0.07)	-0.13	(0.07)		(0.03)		(0.02)	-0.07	(0.03)
	United Arab Emirates		(0.06)		(0.04)		(0.02)	-0.07	(0.07)	0.52 (0.02		(0.03)				(0.04)		(0.02)	-0.01	(0.04)
	Uruguay	0.07	(0.09)	0.10	(0.02)	0.00	(0.03)	-0.08	(0.10)	0.07 (0.02	0.00	(0.04)	-0.07	(0.04)	0.22	(0.03)	-0.02	(0.02)	-0.24	(0.04)
	Viet Nam		(0.02)		(0.03)	0.46	(0.03)	-0.09	(0.04)	0.51 (0.02		(0.05)				(0.05)	0.51	(0.02)		(0.05)
	Argentina**	0.21	(0.09)	0.19	(0.02)	0.14	(0.03)	-0.06	(0.09)	0.22 (0.02		(0.04)				(0.03)	0.14	(0.02)	-0.10	(0.04)
	Kazakhstan**		(0.03)	0.91	(0.03)	0.92	(0.03)	-0.02	(0.04)	0.93 (0.02		(0.06)		(0.06)		(0.02)		(0.03)		(0.04)
	Malaysia**	0.//	(0.03)	0.67	(0.03)	0.4/	(0.04)	-0.30	(0.05)	0.63 (0.02	л ∪.∠8	(0.14)	-0.35	(0.14)	0.42	(0.08)	0.61	(0.02)	0.19	(0.08)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 3/3]

Table II.2.20 Index of perceived feedback from science teachers, by student and school characteristics

nes	ults based on stude	Change in on the	index of p from scien	core per unit erceived feed ce teachers	lback	per unit ii feed	ncrease on t lback from	of epistemic the index of p science teach	erceived ers	in scienc increase or	e-related of the index from scien	of expecting occupations p of perceived ce teachers	er unit feedback
		Before accor students' and socio-econon	d schools'	After acco students' ar socio-econo	nd schools'	Before acco students' ar socio-econo	nd schools'	After accor students' ar socio-econo	nd schools'	Before accor students' an socio-econor	d schools'	After acco students' ai socio-econo	nd schools'
		Score dif.	S.E.	Score dif.	S.E.	Unit dif.	S.E.	Unit dif.	S.E.	Odds ratio	S.E.	Odds ratio	S.E.
OECD	Australia Austria	-6 -17	(1.2) (1.6)	-5 -11	(1.1)	0.06 -0.03	(0.01) (0.02)	0.06 0.00	(0.01) (0.02)	1.12 1.05	(0.03) (0.04)	1.13 1.08	(0.03) (0.04)
OF	Belgium	-19	(1.6)	-9	(1.4)	0.00	(0.02)	0.00	(0.02)	1.02	(0.04)	1.08	(0.04)
	Canada	-10	(1.2)	-9	(1.1)	0.07	(0.01)	0.07	(0.01)	1.03	(0.02)	1.05	(0.02)
	Chile	-12	(1.5)	-6	(1.2)	0.04	(0.02)	0.07	(0.02)	1.05	(0.03)	1.08	(0.03)
	Czech Republic	-8	(1.5)	-4	(1.4)	0.05	(0.02)	0.06	(0.02)	1.03	(0.04)	1.05	(0.05)
	Denmark Estonia	-11 -14	(1.9)	-9 -11	(1.8)	-0.05 -0.01	(0.02)	-0.04 0.01	(0.02)	1.00	(0.05)	1.00 1.08	(0.05)
	Finland	-14	(1.7)	-14	(1.6)	0.00	(0.01)	0.00	(0.02)	0.97	(0.04)	0.97	(0.04)
	France	-13	(1.6)	-4	(1.3)	0.06	(0.02)	0.09	(0.02)	1.02	(0.03)	1.09	(0.04)
	Germany	-15	(2.1)	-6	(1.7)	0.02	(0.03)	0.06	(0.02)	1.12	(0.05)	1.20	(0.06)
	Greece	-15	(1.4)	-11	(1.3)	-0.01	(0.01)	0.01	(0.01)	0.95	(0.03)	0.98	(0.03)
	Hungary	-23	(1.7)	-8	(1.5)	0.01	(0.02)	0.06	(0.02)	1.06	(0.05)	1.24	(0.06)
	Iceland Ireland	-14 -10	(1.6)	-13 -8	(1.5)	0.01 0.05	(0.02)	0.03 0.06	(0.02)	0.94 1.07	(0.04)	0.95 1.09	(0.04)
	Israel	-23	(2.0)	-13	(1.7)	0.03	(0.02)	0.06	(0.02)	1.26	(0.04)	1.25	(0.03)
	Italy	-21	(1.7)	-14	(1.6)	-0.01	(0.02)	0.02	(0.02)	1.03	(0.04)	1.13	(0.04)
	Japan	-9	(1.7)	-7	(1.3)	0.10	(0.01)	0.11	(0.01)	1.07	(0.04)	1.08	(0.04)
	Korea	-15	(1.6)	-14	(1.3)	0.05	(0.01)	0.05	(0.01)	0.98	(0.03)	0.98	(0.03)
	Luvambaura	-11	(1.6)	-7	(1.5)	0.02	(0.02)	0.04	(0.02)	0.97	(0.04)	1.02	(0.04)
	Luxembourg Mexico	-20 -9	(1.3)	-14 -5	(1.1)	0.06 0.06	(0.02) (0.02)	0.09 0.08	(0.02) (0.02)	0.97 1.02	(0.03)	1.02 1.04	(0.03)
	Netherlands	-20	(2.3)	-10	(1.1)	0.00	(0.02)	0.04	(0.02)	1.00	(0.05)	1.08	(0.05)
	New Zealand	-16	(1.8)	-13	(1.6)	0.07	(0.01)	0.08	(0.01)	1.01	(0.04)	1.02	(0.04)
	Norway	-6	(1.3)	-4	(1.3)	0.07	(0.02)	0.07	(0.02)	1.05	(0.03)	1.05	(0.03)
	Poland	-10	(1.7)	-6	(1.4)	0.01	(0.02)	0.03	(0.02)	0.91	(0.04)	0.97	(0.04)
	Portugal	-15	(1.6)	-10	(1.4)	0.04 0.01	(0.02)	0.07	(0.02)	0.94	(0.03)	0.99	(0.03)
	Slovak Republic Slovenia	-16 m	(1.8) m	-8 m	(1.5) m	m	(0.02) m	0.05 m	(0.02) m	0.99 m	(0.04) m	1.09 m	(0.04) m
	Spain	-15	(1.6)	-11	(1.4)	0.00	(0.02)	0.02	(0.01)	1.00	(0.03)	1.03	(0.03)
	Sweden	-11	(1.8)	-8	(1.6)	0.04	(0.02)	0.05	(0.02)	1.05	(0.03)	1.07	(0.03)
	Switzerland	-20	(1.8)	-14	(1.4)	0.02	(0.02)	0.06	(0.02)	0.99	(0.04)	1.03	(0.04)
	Turkey	-6	(1.6)	-2	(1.2)	0.13	(0.02)	0.15	(0.02)	1.00	(0.04)	1.03	(0.04)
	United Kingdom United States	-5 -15	(1.8)	-1 -13	(1.6)	0.10 0.06	(0.02)	0.12 0.07	(0.02)	1.12 0.98	(0.04)	1.13 0.98	(0.04) (0.02)
	OECD average	-14	(0.3)	-9	(0.2)	0.03	(0.00)	0.05	(0.00)	1.02	(0.01)	1.06	(0.01)
-S	Albania	m	m	m	m	0.16	(0.02)	0.16	(0.02)	1.08	(0.05)	1.08	(0.04)
Partners	Algeria	-9	(1.4)	-7	(1.4)	0.09	(0.02)	0.10	(0.02)	1.05	(0.04)	1.08	(0.04)
Par	Brazil	-4	(1.3)	-4	(1.0)	0.11	(0.01)	0.11	(0.01)	1.04	(0.03)	1.04	(0.03)
_	B-S-J-G (China) Bulgaria	-7 -12	(2.2)	-8 -3	(1.8)	0.11	(0.02)	0.11 0.13	(0.02)	1.05	(0.04)	1.04 1.11	(0.04)
	CABA (Argentina)	-12	(3.3)	-10	(2.5)	-0.02	(0.02)	0.13	(0.02)	0.87	(0.04)	0.89	(0.04)
	Colombia	-11	(1.3)	-7	(1.3)	0.07	(0.02)	0.08	(0.02)	1.01	(0.03)	1.01	(0.03)
	Costa Rica	-9	(1.2)	-7	(1.1)	0.06	(0.02)	0.07	(0.02)	1.02	(0.03)	1.03	(0.03)
	Croatia	-18	(1.7)	-9	(1.4)	0.02	(0.02)	0.06	(0.02)	0.90	(0.03)	0.98	(0.03)
	Cyprus*	-9	(1.5)	-7	(1.4)	0.06	(0.02)	0.07	(0.02)	1.06	(0.03)	1.07	(0.03)
	Dominican Republic FYROM	-1 1	(2.1) (1.8)	2 3	(1.6)	0.18 0.19	(0.02)	0.20 0.20	(0.02)	1.12 1.13	(0.04) (0.05)	1.12 1.14	(0.04)
	Georgia	9	(1.5)	8	(1.6)	0.13	(0.02)	0.22	(0.02)	1.09	(0.05)	1.08	(0.05)
	Hong Kong (China)	-3	(2.0)	-1	(1.9)	0.12	(0.02)	0.12	(0.02)	1.06	(0.04)	1.07	(0.04)
	Indonesia	-11	(1.7)	-7	(1.4)	0.07	(0.01)	0.08	(0.01)	0.87	(0.04)	0.90	(0.05)
	Jordan	4	(1.4)	2	(1.3)	0.20	(0.02)	0.20	(0.02)	1.12	(0.04)	1.10	(0.04)
	Kosovo	12	(1.5)	10	(1.4)	0.20	(0.02)	0.19	(0.02)	1.15	(0.05)	1.12	(0.05)
	Lebanon Lithuania	-3 -12	(2.4)	-7	(2.1)	0.12 0.01	(0.03)	0.14 0.03	(0.02)	1.12 1.01	(0.04) (0.03)	1.18 1.06	(0.05)
	Macao (China)	-13	(1.4)	-12	(1.4)	0.05	(0.02)	0.05	(0.02)	0.99	(0.05)	0.99	(0.05)
	Malta	-2	(2.2)	0	(2.1)	0.11	(0.02)	0.11	(0.02)	1.17	(0.05)	1.19	(0.05)
	Moldova	4	(2.0)	6	(1.8)	0.13	(0.02)	0.14	(0.02)	1.01	(0.04)	1.02	(0.04)
	Montenegro	-3	(1.4)	2	(1.3)	0.15	(0.02)	0.17	(0.02)	1.07	(0.04)	1.10	(0.04)
	Peru	-9	(1.9) (1.0)	-5 0	(1.5)	0.10	(0.02)	0.11	(0.02)	1.07 1.10	(0.03)	1.09	(0.04)
	Qatar Romania	-1	(2.2)	2	(1.0)	0.15 0.10	(0.01)	0.16 0.10	(0.01) (0.02)	1.00	(0.02)	1.10 1.06	(0.02)
	Russia	-4	(1.7)	-3	(1.5)	0.10	(0.02)	0.10	(0.02)	1.00	(0.05)	1.09	(0.05)
	Singapore	-9	(1.6)	-7	(1.5)	0.10	(0.02)	0.10	(0.01)	1.12	(0.04)	1.12	(0.04)
	Chinese Taipei	-7	(1.7)	-4	(1.2)	0.08	(0.02)	0.09	(0.01)	1.06	(0.03)	1.08	(0.03)
	Thailand	-7	(1.9)	-3	(1.7)	0.06	(0.02)	0.08	(0.02)	0.87	(0.04)	0.90	(0.04)
	Trinidad and Tobago	-12	(1.4)	-4	(1.2)	0.06	(0.02)	0.08	(0.02)	1.03	(0.03)	1.09	(0.04)
	Tunisia United Arab Emirates	-7 -3	(1.6) (1.4)	-5 0	(1.3)	0.10 0.14	(0.02) (0.01)	0.11 0.15	(0.02) (0.01)	1.01 1.07	(0.03) (0.02)	1.03 1.07	(0.03)
	Uruguay	-13	(1.4)	-9	(1.1)	0.14	(0.01)	0.13	(0.01)	0.96	(0.02)	0.98	(0.02)
	Viet Nam	-12	(2.3)	-7	(1.7)	0.09	(0.02)	0.11	(0.02)	1.09	(0.06)	1.12	(0.06)
_	Argentina**	-9	(1.7)	-4	(1.5)	0.07	(0.02)	0.11	(0.02)	0.94	(0.04)	0.99	(0.04)
	Kazakhstan**	8	(2.0)	7	(1.8)	0.26	(0.02)	0.26	(0.02)	1.12	(0.04)	1.11	(0.04)
	Malaysia**	-7	(2.0)	-1	(1.4)	0.16	(0.02)	0.18	(0.02)	1.02	(0.03)	1.08	(0.03)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS).

Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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Table II.2.22 Adaptive instruction in science lessons

Part	Res	ults based on stude	ents'	repo	rts		Per	centag	ge of st	tudent	s who	report	ed tha	t the f	ollowi	ng thi	ngs ha	ppen i	n their	scien	ce less	ons				
Part			The	teache			esson 1	to my c				The t	eacher tudent	provid	des ind	lividua es unde	l help		The	teache	er char	nges th t most	studen	ts find		
Secondary 1.0			or a	lmost					or ál	most	or al	most					or ál	most	or al	most					or a	lmost
Selection			%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Canada	Q																									(0.3)
Chiach Chie 12.0 03 13.9 0.5 13.5 0.6 18.0 10.0 19.1 0.1 0.2 19.1 0.1 0.2 1.0 10.0 10.3 10.0 10.2 10.0 10.3 10.0 10.2 10.0 10.																										(0.6)
Crech Expendisc 201 0.0 6.5 6.0 8.1 6.0 8.2 0.0 8.1 0.0 0.0 7.0 0.0 1.5 0.0	0																									(0.3)
Demark 10.6 0.6 0.7 1.5 0.7 2.6 0.8 0.8 0.0																										(0.5)
Selection Sele																										(0.4)
France 75, 60, 49, 97, 26, 67, 89, 93, 17, 95, 69, 97, 94, 96, 97, 97, 98, 98, 97, 97, 98,																										(0.7)
Ference 150 0.08 319 0.7 270 0.06 14.1 0.05 24.9 0.06 0.7 27.0 0.06 14.5 0.06 0.07 0.		Estonia	28.8	(0.8)	40.8	(0.7)	21.6	(0.7)	8.8	(0.4)	15.3	(0.5)	41.5	(0.8)	29.7	(0.8)	13.5	(0.6)	23.6	(0.7)	40.9	(0.8)	25.8	(0.8)	9.7	(0.4)
Greece 192 08. 352 07 282 08. 14. 00 27. 188 07. 189 07. 282 08. 14. 00 27. 188 07. 18																										(0.5)
Fundame																										(0.4)
Incland 18.5 0.07 2.79 0.07 1.79 0.07 1.79 0.07 1.79 0.07 1.79 0.07 1.75 0.07																										(0.4)
Incland 18.5 0.7 39.9 0.9 27.8 0.8 13.7 0.5 0.8 14.7 0.5 0.7 3.8 0.8 0.2 0.5 0.8 12.0 0.7 0.7 0.8 12.0																										(0.6)
Israel																										(0.6)
Islay 16.8 0.6 40.1 0.6 30.1 0.6 30.1 0.6 30.1 0.6 30.1 0.6 30.1 0.6 30.1 0.6 30.1 0.6 30.1 0.7 30.2 0.7 30.2 0.7 30.2 0.7 30.2 30.1 30.1 0.7 30.2																										(0.5)
Taylor 190 191 1		Israel	22.0	(0.8)	39.2	(0.8)	25.0	(0.7)	13.8	(0.6)	17.9	(0.7)	37.7	(0.8)	27.1	(0.6)	17.3	(0.7)	26.2	(0.9)	33.1	(0.7)	25.9	(0.6)	14.8	(0.6)
Lativa		,																								(0.5)
Lataiva 10.4 60.6 29.2 67.3 63.3 68.1 24.1 68.5 69.5 67.5 67.5 68.5 68.5 67.5 67.5 68.5																										(0.4)
Mexico Review R																										(0.6)
Netherlands																										(0.5)
New Zealand 12.0 (a) 63,6 (a) 83,4 (a) 81,9 (a) 81,9 (a) 81,9 (a) 81,9 (a) 81,9 (a) 81,8 (a) 81,9 (a) 81,9 (a) 81,9 (a) 81,8 (a) 81,9 (a)																										(0.7)
Norway 14.0 0.7 35.7 0.7 3.0 3.0 0.6 7.3 0.7 3.0 0.6 0.7 3.0 0.6 0.7 3.0 0.0 3.8 0.0 3.2 0.0 0.7 3.0 0.0 3.8 3.2 0.0 2.3 0.0 3.1 0.0 1.0 0.0		Netherlands	23.9	(0.9)	44.8	(1.0)	24.4	(0.9)	6.9	(0.6)	11.9	(0.7)	39.1	(0.8)		(0.8)	13.6	(0.6)	16.0	(0.7)	44.4	(0.8)	31.0	(0.8)	8.6	(0.6)
Portugal 97 05 05 08 08 07 08 15 06 08 07 08 15 06 07 08 15 08 08 17 08 08 15 08 08 07 08 08 08 08 08																										(0.5)
Slovak Republic 246 608 341 079 252 079 131 079 126 079 135 070 085 136 089 126 089 137 311 079 126 136		,																								(0.5)
Slovents																										(0.6)
Spairs Spair Spa																										(0.4)
Syede																										m
Switzerland 193 0.8 34.8 0.9 24.8 0.9 17.1 0.6 19.0 0.8 34.8 0.9 29.6 0.8 16.5 0.7 36.0 0.1 0.1 0.8 20.9 0.7 11.7 0.7 0.7 12.0 0.7 18.2 0.8 13.2 0.8		Spain	15.1						17.9					(0.8)		(0.7)	20.2				32.9		30.0			(0.7)
Turkey 13.8 0.5 37.4 0.7 30.9 0.7 17.9 0.7 12.3 0.5 38.9 0.7 39.9 0.0 0.0 17.9 0.7 18.2 0.0 38.7 0.7 28.8 0.8 18.2 0.8 18.2 0.0 18.5 0.7 18.2 0.0 1																										(0.6)
United Kingdom 149																										(0.5)
Colombia 13,0 10,0 13,																										(0.6)
Albania																										(0.6)
Algeria m m m m m m m m m m m m m m m m m																										
Algeria		OECD average	18.1	(0.1)	36./	(0.1)	29.4	(0.1)	15.8	(0.1)	16.3	(0.1)	36.1	(0.1)	29.9	(0.1)	17./	(0.1)	24.1	(0.1)	35.9	(0.1)	26./	(0.1)	13.2	(0.1)
Bulgaria 16.1 (0.7) 43.3 (0.8) 32.2 (0.7) 13.8 (0.6) 6.5 (0.4) 41.4 (0.8) 32.4 (0.7) 13.6 (0.8) 32.7 (0.7) 21.0 (0.6) 16.3 (0.6) 33.7 (0.7) 21.0 (0.6) 16.3 (0.6) 33.7 (0.7) 21.0 (0.6) 16.3 (0.6) 33.7 (0.7) 21.0 (0.6) 16.3 (0.6) 33.7 (0.7) 21.0 (0.6) 16.3 (0.6) 33.7 (0.7) 31.0 (0.6) 31.0 (0.	rs	Albania	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
Bulgaria 16.1 (0.7) 43.3 (0.8) 32.2 (0.7) 13.8 (0.6) 6.5 (0.4) 41.4 (0.8) 32.4 (0.7) 13.6 (0.8) 32.7 (0.7) 21.0 (0.6) 16.3 (0.6) 33.7 (0.7) 21.0 (0.6) 16.3 (0.6) 33.7 (0.7) 21.0 (0.6) 16.3 (0.6) 33.7 (0.7) 21.0 (0.6) 16.3 (0.6) 33.7 (0.7) 21.0 (0.6) 16.3 (0.6) 33.7 (0.7) 31.0 (0.6) 31.0 (0.	tue	Algeria						m								m			m			m			m	m
CABA (Argentina)	Par																									(0.6)
Colombia Casima C	- 1																									(0.6)
Colombia 12.3 (0.5) 41.4 (0.6) [28.4 (0.6) 7.9 (0.5) 13.9 (0.6) 39.0 (0.7) 30.4 (0.6) 16.6 (0.6) 26.5 (0.6) 36.5 (0.6) 32.9 (0.6) 31.1 (0.5) 18.8 (0.5) 18.8 (0.6)																										(0.7) m
Costa Rica 12.7 (0.5) 35.1 (0.8) 29.2 (0.6) 23.0 (0.8) 13.9 (0.6) 31.5 (0.8) 28.2 (0.6) 26.4 (0.8) 20.9 (0.6) 34.8 (0.8) 25.4 (0.5) 18.8 (0.8) 19.9 (0.7) 19.5 (0.7)									-																	(0.5)
Cyprus* 17.2 0.6 38.5 0.8 29.5 0.7 14.7 0.5 13.6 0.5 38.4 0.7 31.0 0.7 17.0 0.5 16.3 0.6 38.0 0.7 31.7 0.8 16.5 15.1		Costa Rica																								(0.7)
Dominican Republic 13.9 0.7 44.1 1.0 26.1 (0.7) 15.9 0.7 11.6 (0.6) 38.7 (0.9) 32.1 (0.6) 17.6 (0.8) 22.6 (0.8) 38.0 (1.0) 24.3 (0.8) 15.1 (0.6) 17.6 (0.8) 17.6		Croatia	21.0		40.1	(0.7)		(0.8)	12.3	(0.6)		(0.8)	41.6	(0.7)	25.3	(0.7)	12.4	(0.6)	25.6	(0.9)	40.8	(0.7)	23.0	(0.7)	10.5	(0.5)
FYROM Georgia M M M M M M M M M M M M M M M M M M																										(0.5)
Georgia																										(0.8)
Hong Kong (China) 10.1 0.6 43.8 0.9 35.7 0.9 10.4 0.6 8.7 0.5 43.1 0.9 36.2 0.8 12.0 0.6 14.2 0.7 43.9 1.0 32.7 1.0 9.2 0.6 1.0																										m m
Indonesia																										(0.5)
Kosovo																										m
Lebanon																										m
Lithuania 29.4 (0.7) 37.1 (0.7) 21.1 (0.7) 12.4 (0.6) 13.6 (0.5) 36.2 (0.6) 29.3 (0.6) 20.9 (0.7) 33.2 (0.8) 32.4 (0.8) 22.2 (0.6) 12.3 (Macao (China) 17.2 (0.6) 46.8 (0.8) 26.5 (0.7) 9.5 (0.4) 7.2 (0.4) 44.1 (0.8) 34.6 (0.7) 14.1 (0.5) 26.5 (0.7) 43.9 (0.8) 21.9 (0.6) 7.7 (Malta Malta M Moldova M M M M M M M M M M M M M M M M M M M																										m
Macao (China) 17.2 (0.6) 46.8 (0.8) 26.5 (0.7) 9.5 (0.4) 7.2 (0.4) 44.1 (0.8) 34.6 (0.7) 14.1 (0.5) 26.5 (0.7) 43.9 (0.8) 21.9 (0.6) 7.7 (0.6) Malda m																										(0.5)
Malta m <th></th> <th>(0.4)</th>																										(0.4)
Montenegro 20.8 (0.6) 37.2 (0.7) 25.9 (0.7) 16.2 (0.6) 17.1 (0.5) 36.4 (0.8) 28.4 (0.7) 18.1 (0.6) 24.7 (0.7) 37.7 (0.8) 24.0 (0.6) 13.6 (0.8) 24.0 (0.8) 18.1 (0.8) 24.0 (0.8) 18.1 (0.8) 24.7 (0.8) 24.0 (0.8) 18.1 (0.8) 24.0 (0.8) 18.1 (0.8) 24.0 (0.8) 18.1 (0.8) 24.0 (0.8) 18.1 (0.8) 24.0 (0.8) 18.1 (0.8) 24.0 (0.8) 18.1 (0.8) 24.0 (0.8) 18.1 (0.8) 24.1			m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
Peru 15.2 (0.6) 46.7 (0.7) 27.5 (0.7) 10.6 (0.4) 8.9 (0.4) 39.2 (0.8) 34.0 (0.7) 17.8 (0.6) 19.1 (0.5) 42.7 (0.8) 27.0 (0.6) 11.2 (0.7) Qatar 15.6 (0.4) 41.8 (0.5) 15.6 (0.3) 9.2 (0.3) 33.0 (0.4) 19.0 (0.3) 16.7 (0.4) 38.4 (0.5) 28.7 (0.4) 16.3 (0.8) 28.7 (0.4) 38.4 (0.5) 28.2 (0.4) 16.3 (0.8) 28.5 (0.4) 38.8 (0.7) 20.3 (0.5) 4.8 (0.3) 29.8 (0.6) 39.1 (1.0) 22.3 (0.9) 19.2 (0.8) 39.1 (0.8) 28.5 (0.8) 13.2 (0.6) 48.0 29.3 (0.6) 39.1 (0.6) 26.3 (0.6) 10.9 (0.4) 36.2 (0.7) 28.0 (0.6) 14.9 (0											_															m
Qatar 15.6 (0.4) 41.8 (0.5) 26.9 (0.5) 15.6 (0.3) 9.2 (0.3) 38.2 (0.5) 33.5 (0.4) 19.0 (0.3) 16.7 (0.4) 38.4 (0.5) 28.7 (0.4) 16.3 (0.8) 38.5 (0.4) 19.0 (0.3) 16.7 (0.4) 38.4 (0.5) 28.7 (0.4) 16.3 (0.8) 28.5 (0.8) 38.2 (0.5) 33.5 (0.4) 19.0 (0.3) 16.7 (0.4) 38.4 (0.5) 28.7 (0.4) 48.0 (0.6) 33.1 (1.1) 37.1 (1.0) 22.3 (0.9) 19.2 (0.8) 39.1 (0.6) 26.3 (0.6) 10.9 (0.4) 43.2 (0.7) 38.8 (0.7) 23.0 (0.6) 39.1 (0.6) 26.3 (0.6) 10.9 (0.4) 43.2 (0.7) 43.8 (0.7) 28.0 (0.6) 39.1 (0.6) 42.3 (0.6) 14.9 <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>(0.5)</th></th<>																										(0.5)
Romania																										(0.5)
Russia 11.6 (0.7) 35.0 (1.0) 33.0 (1.0) 20.4 (0.7) 25.0 (0.8) 33.1 (1.0) 22.3 (0.9) 19.2 (0.8) 39.1 (0.8) 28.5 (0.8) 13.2 (0.5) singapore 6.7 (0.4) 34.2 (0.7) 20.3 (0.5) 4.8 (0.3) 29.8 (0.6) 39.1 (0.6) 10.9 (0.4) 36.2 (0.6) 21.0 (0.6) 10.9 (0.6) 10.9 (0.4) 36.2 (0.6) 21.0 (0.6) 10.0 31.2 (0.8) 13.2 (0.8) 13.2 (0.8) 39.1 (0.8) 39.1 (0.8) 38.5 (0.8) 13.2 (0.6) 21.0 (0.6) 10.0 0.6 10.0 0.6 0.0 0.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 <th></th> <th>(0.4) m</th>																										(0.4) m
Singapore 6.7 (0.4) 34.2 (0.7) 38.8 (0.7) 20.3 (0.5) 4.8 (0.3) 29.8 (0.6) 39.1 (0.6) 26.3 (0.6) 10.9 (0.4) 36.2 (0.8) 35.0 (0.8) 17.9 (0.6) Chinese Taipei 14.3 (0.5) 41.1 (0.6) 31.3 (0.7) 13.3 (0.5) 14.3 (0.4) 42.8 (0.7) 28.0 (0.6) 14.9 (0.6) 14.9 (0.6) 14.9 (0.6) 14.9 (0.6) 14.9 (0.6) 14.9 (0.6) 14.9 (0.6) 14.9 (0.6) 14.9 (0.6) 14.9 (0.6) 14.9 (0.6) 14.9 (0.6) 14.9 (0.6) 14.0 (0.7) 14.5 (0.7) 14.2 (0.0) 30.5 (0.6) 14.4 (0.7) 14.5 (0.7) 14.2 (0.0) 30.5 (0.6) 14.4 (0.7) 14.5 (0.7) 14.5 (0.7) 14.5 (0.7) <th></th> <th>(0.6)</th>																										(0.6)
Chinese Taipei 14.3 (0.5) 41.1 (0.6) 31.3 (0.7) 13.3 (0.5) 14.3 (0.4) 42.8 (0.7) 28.0 (0.6) 14.9 (0.6) 18.4 (0.6) 39.2 (0.6) 29.1 (0.7) 13.2 (1 Thailand 12.5 (0.5) 48.5 (0.9) 24.4 (0.6) 14.7 (0.5) 6.1 (0.4) 42.1 (0.9) 30.5 (0.6) 21.4 (0.7) 12.8 (0.5) 47.9 (0.8) 24.7 (0.7) 14.6 (1 Trinidad and Tobago m m m m m m m m m m m m m m m m m m m																										(0.6)
Trinidad and Tobago m		Chinese Taipei																								(0.5)
Tunisia 16.2 (0.6) 46.0 (0.9) 26.2 (0.8) 11.6 (0.5) 9.5 (0.5) 39.5 (0.7) 34.8 (0.8) 16.1 (0.6) 11.1 (0.5) 36.1 (0.8) 32.8 (0.8) 20.0 (0 United Arab Emirates 13.9 (0.5) 40.4 (0.6) 28.0 (0.6) 17.8 (0.5) 9.6 (0.4) 35.5 (0.5) 33.1 (0.5) 21.8 (0.6) 15.3 (0.5) 35.9 (0.6) 29.7 (0.5) 19.1 (Uruguay 14.1 (0.5) 41.0 (0.7) 29.4 (0.7) 15.5 (0.7) 14.5 (0.7) 42.0 (0.8) 29.9 (0.7) 13.6 (0.7) 21.9 (0.7) 38.8 (0.9) 27.7 (0.7) 11.6 ((0.6)
United Arab Emirates 13.9 (0.5) 40.4 (0.6) 28.0 (0.6) 17.8 (0.5) 9.6 (0.4) 35.5 (0.5) 21.8 (0.6) 15.3 (0.5) 35.9 (0.6) 29.7 (0.5) 19.1 (0.7) 14.0 (0.7) 15.5 (0.7) 14.5 (0.7) 42.0 (0.8) 29.9 (0.7) 13.6 (0.7) 21.9 (0.7) 13.6 (0.7) 11.6 (0.7) 14.5 </th <th></th> <th>(0.7)</th>																										(0.7)
Uruguay 14.1 (0.5) 41.0 (0.7) 29.4 (0.7) 15.5 (0.7) 14.5 (0.7) (0.8) 29.9 (0.7) 13.6 (0.7) 21.9 (0.7) 38.8 (0.9) 27.7 (0.7) 11.6 (0.7)																										(0.7)
Viet Nam m<																										(0.6)
Argentina** m <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>m</th></th<>																										m
Kazakhstan** mmmmmmmmmmmmmmmmmmmmmmmmmmmmmm		Argentina**	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
Malaysia** 5.2 (0.4) 46.1 (0.8) 34.1 (0.7) 14.6 (0.6) 3.1 (0.3) 31.3 (0.8) 39.8 (0.8) 25.8 (1.0) 7.9 (0.4) 39.1 (0.9) 34.8 (0.8) 18.2 (0.		Kazakhstan**																								m
1 0.2 (0.0) 5.10		Malaysia**	5.2	(0.4)	46.1	(0.8)	34.1	(0.7)	14.6	(0.6)	3.1	(0.3)	31.3	(0.8)	39.8	(0.8)	25.8	(1.0)	7.9	(0.4)	39.1	(0.9)	34.8	(0.8)	18.2	(0.6)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** http://dx.doi.org/10.1787/888933436477



[Part 1/3]

Table II.2.23 Index of adaptive instruction in science lessons, by student and school characteristics

		All stu	ıdents					By sch	ool socio-	economic	profile ¹			
	Ave	erage		ability s index	Bottom	quarter	Second	quarter	Third	quarter	Тор q	uarter		bottom arter
	Mean index	S.E.	S.D.	S.E.	Mean index	S.E.	Mean index	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.E.
Australia	0.20	(0.01)	0.95	(0.01)	0.12	(0.02)	0.13	(0.03)	0.25	(0.03)	0.29	(0.03)	0.16	(0.04
Austria	-0.28	(0.03)	1.09 0.92	(0.01)	-0.21	(0.04)	-0.27	(0.09)	-0.30 -0.42	(0.09)	-0.31	(0.06)	-0.10	30.0)
Belgium Canada	-0.38 0.26	(0.02)	1.01	(0.01)	-0.27 0.28	(0.03)	-0.38 0.22	(0.03)	0.42	(0.03)	-0.42 0.26	(0.04)	-0.14 -0.02	(0.05
Chile	0.21	(0.02)	0.95	(0.01)	0.14	(0.03)	0.24	(0.04)	0.25	(0.05)	0.21	(0.04)	0.07	(0.06
Czech Republic	-0.16	(0.02)	0.95	(0.01)	-0.24	(0.04)	-0.15	(0.04)	-0.12	(0.04)	-0.16	(0.03)	0.09	(0.0)
Denmark	0.28	(0.02)	0.92	(0.01)	0.15	(0.04)	0.29	(0.04)	0.33	(0.05)	0.34	(0.04)	0.19	(0.0)
Estonia	-0.17	(0.02)	0.92	(0.01)	-0.14	(0.04)	-0.17	(0.04)	-0.18	(0.03)	-0.21	(0.04)	-0.07	(0.0)
Finland	-0.01	(0.02)	0.92	(0.01)	-0.08	(0.04)	-0.02	(0.04)	0.00	(0.04)	0.04	(0.03)	0.12	(0.0)
France	-0.29	(0.02)	1.01 0.98	(0.01)	-0.17	(0.04)	-0.23 -0.29	(0.04)	-0.36 -0.20	(0.04)	-0.34	(0.03)	-0.17	(0.0)
Germany Greece	-0.22 0.06	(0.02)	1.05	(0.01)	-0.31 0.04	(0.03)	0.06	(0.03)	0.05	(0.04) (0.05)	-0.14 0.07	(0.04)	0.17 0.03	(0.0)
Hungary	-0.11	(0.02)	1.01	(0.01)	-0.04	(0.04)	-0.21	(0.04)	-0.12	(0.05)	-0.08	(0.04)	-0.05	(0.0)
Iceland	0.07	(0.02)	1.04	(0.01)	0.11	(0.04)	0.01	(0.03)	0.01	(0.03)	0.17	(0.04)	0.05	(0.0)
Ireland	-0.02	(0.02)	0.95	(0.01)	0.03	(0.04)	-0.06	(0.04)	-0.02	(0.03)	-0.04	(0.03)	-0.07	(0.0)
Israel	-0.06	(0.02)	1.03	(0.01)	0.07	(0.05)	-0.09	(0.05)	-0.14	(0.07)	-0.08	(0.05)	-0.15	(0.0)
Italy	-0.07	(0.02)	0.90	(0.01)	0.05	(0.03)	-0.08	(0.04)	-0.14	(0.03)	-0.10	(0.03)	-0.15	(0.0)
Japan	-0.24	(0.02)	0.97	(0.01)	-0.37	(0.05)	-0.30	(0.06)	-0.17	(0.04)	-0.12	(0.05)	0.25	(0.0)
Korea	-0.05	(0.02)	1.01	(0.01)	-0.06	(0.06)	0.00	(0.06)	-0.10	(0.05)	-0.03	(0.06)	0.02	(0.0)
Luxembourg	-0.31	(0.02)	0.88	(0.01)	-0.30	(0.04)	-0.32	(0.04)	0.16 -0.31	(0.04)	-0.31	(0.04)	-0.13 -0.01	(0.0)
Luxembourg Mexico	0.31	(0.01)	0.95	(0.01)	0.40	(0.03)	0.34	(0.03)	0.24	(0.03)	0.30	(0.03)	-0.01	(0.0)
Netherlands	-0.07	(0.02)	0.95	(0.01)	-0.24	(0.04)	-0.11	(0.04)	-0.03	(0.03)	0.04	(0.04)	0.28	(0.0
New Zealand	0.25	(0.02)	0.93	(0.01)	0.22	(0.04)	0.20	(0.04)	0.28	(0.04)	0.31	(0.03)	0.09	(0.0
Norway	0.08	(0.02)	0.99	(0.01)	0.10	(0.05)	0.07	(0.05)	0.07	(0.05)	0.09	(0.04)	0.00	(0.0
Poland	-0.08	(0.02)	1.03	(0.01)	-0.02	(0.05)	-0.12	(0.06)	-0.07	(0.05)	-0.10	(0.05)	-0.08	(0.0
Portugal	0.53	(0.02)	1.05	(0.01)	0.57	(0.03)	0.57	(0.04)	0.51	(0.04)	0.49	(0.04)	-0.08	(0.0
Slovak Republic	-0.24	(0.02)	0.96	(0.01)	-0.17	(0.04)	-0.29	(0.04)	-0.29	(0.04)	-0.22	(0.03)	-0.05	(0.0)
Slovenia	m	m	m	m	m	m	m	m	m	m	m	m	m	(0.0
Spain	0.15	(0.02)	0.99	(0.01)	0.22	(0.05)	0.15	(0.06)	0.15	(0.06)	0.08	(0.05)	-0.14	(0.0)
Sweden Switzerland	-0.09	(0.03)	1.03	(0.01)	0.01 -0.13	(0.05)	0.15 -0.11	(0.06)	0.12 -0.11	(0.05)	-0.02	(0.05)	0.24	(0.0)
Turkey	0.12	(0.02)	0.97	(0.01)	0.06	(0.04)	0.16	(0.04)	0.10	(0.04)	0.15	(0.04)	0.09	(0.0
United Kingdom	0.15	(0.02)	0.97	(0.01)	0.20	(0.04)	0.15	(0.04)	0.09	(0.04)	0.18	(0.03)	-0.02	(0.0
United States	0.24	(0.02)	1.01	(0.01)	0.18	(0.04)	0.22	(0.04)	0.26	(0.05)	0.28	(0.04)	0.10	(0.0)
OECD average	0.01	(0.00)	0.98	(0.00)	0.01	(0.01)	0.00	(0.01)	0.00	(0.01)	0.03	(0.01)	0.02	(0.0)
Albania	m	m	m	m	m	m	m	m	m	m	m	m	m	
Algeria	m	m	m	m	m	m	m	m	m	m	m	m	m	
Brazil	0.08	(0.01)	0.98	(0.01)	0.00	(0.04)	-0.01	(0.03)	0.03	(0.03)	0.25	(0.03)	0.25	(0.0)
B-S-J-G (China)	0.06	(0.02)	0.92	(0.01)	-0.12	(0.03)	0.00	(0.04)	0.15	(0.04)	0.21	(0.04)	0.34	(0.0)
Bulgaria	0.22	(0.02)	1.03	(0.01)	0.20	(0.05)	0.20	(0.04)	0.20	(0.03)	0.28	(0.04)	0.08	(0.0
CABA (Argentina)	m	m	m	m	m	m	m	m	m	m	m	m	m	10.0
Colombia	0.04	(0.01)	0.90	(0.01)	0.02	(0.04)	-0.04	(0.04)	0.03	(0.03)	0.16	(0.03)	0.14	(0.0
Costa Rica Croatia	0.22 -0.16	(0.02)	1.02 0.98	(0.01)	0.19 -0.05	(0.04) (0.05)	0.22 -0.15	(0.05)	0.13	(0.05)	-0.22	(0.04)	0.13 -0.17	(0.0)
Cyprus*	0.10	(0.02)	0.98	(0.01)	0.12	(0.03)	0.12	(0.03)	0.05	(0.03)	0.11	(0.04)	-0.01	(0.0
Dominican Republic	0.10	(0.01)	0.93	(0.01)	0.12	(0.02)	0.05	(0.03)	0.05	(0.03)	0.11	(0.03)	0.12	(0.0
FYROM	m	m	m	m	m	m	m	m	m	m	m	m	m	(01)
Georgia	m	m	m	m	m	m	m	m	m	m	m	m	m	
Hong Kong (China)	0.08	(0.02)	0.86	(0.01)	0.07	(0.04)	0.07	(0.04)	0.09	(0.05)	0.07	(0.04)	0.00	(0.0
Indonesia	m	m	m	m	m	m	m	m	m	m	m	m	m	
Jordan	m	m	m	m	m	m	m	m	m	m	m	m	m	
Kosovo	m	m	m	m	m	m	m	m	m	m	m	m	m	
Lebanon Lithuania	-0.11	(0.02)	1.01	(0.01)	-0.03	(0.04)	-0.16	(0.04)	-0.15	(0.04)	-0.11	(0.04)	-0.09	(0.0
Macao (China)	-0.11	(0.02)	0.83	(0.01)	0.00	(0.04)	-0.16	(0.04)	-0.13	(0.04)	-0.11	(0.04)	-0.09	(0.0
Malta	m	(0.01) m	m	(0.01) m	m	(0.02) m	m	(0.05) m	m	(0.02) m	m	(0.03) m	m	(0.0
Moldova	m	m	m	m	m	m	m	m	m	m	m	m	m	
Montenegro	-0.03	(0.02)	1.05	(0.01)	0.15	(0.04)	0.03	(0.03)	0.01	(0.03)	-0.27	(0.03)	-0.43	(0.0
Peru	0.04	(0.01)	0.84	(0.01)	0.06	(0.03)	0.07	(0.03)	-0.01	(0.03)	0.06	(0.03)	0.00	(0.0
Qatar	0.14	(0.01)	0.96	(0.01)	0.03	(0.02)	0.14	(0.02)	0.21	(0.02)	0.15	(0.02)	0.12	(0.0
Romania	m	m (0.02)	m	m (0.01)	m	m	m	m (O.OF)	m	m	m	m	m	(0.1
Russia Singapore	0.23	(0.02)	0.91	(0.01)	0.28	(0.04)	0.15	(0.05)	0.27 0.45	(0.07)	0.22	(0.06)	-0.06	(0.0
Singapore Chinese Taipei	0.41	(0.01)	0.90	(0.01)	0.31	(0.02)	0.34	(0.03)	-0.02	(0.03)	0.53	(0.05)	0.22 -0.03	0.0)
Thailand	0.03	(0.02)	0.96	(0.01)	0.07	(0.03)	0.03	(0.04)	0.20	(0.03)	0.04	(0.04)	0.02	(0.0
Trinidad and Tobago	0.15 m	(0.02) m	0.90 m	(0.01) m	m	(0.03) m	m	(0.04) m	m	(0.03) m	0.13 m	(0.03) m	m	(0.0
Tunisia	0.14	(0.01)	0.85	(0.01)	0.16	(0.04)	0.19	(0.04)	0.10	(0.03)	0.12	(0.03)	-0.04	(0.0
United Arab Emirates	0.21	(0.01)	0.98	(0.01)	0.19	(0.04)	0.19	(0.03)	0.26	(0.04)	0.22	(0.02)	0.03	(0.0
Uruguay	0.00	(0.02)	0.93	(0.01)	-0.06	(0.03)	0.02	(0.04)	0.00	(0.04)	0.05	(0.04)	0.11	(0.0
Viet Nam	m	m	m	m	m	m	m	m	m	m	m	m	m	
Argentina**	m	m	m	m	m	m	m	m	m	m	m	m	m	
Kazakhstan**	m	m	m	m	m	m	m	m	m	m	m	m	m	
Malaysia**	0.38	(0.02)	0.81	(0.01)	0.38	(0.04)	0.35	(0.03)	0.44	(0.03)	0.35	(0.04)	-0.03	(0.0)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

* Coverage is too small to ensure comparability (see Annex A4).

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Table II.2.23 Index of adaptive instruction in science lessons, by student and school characteristics

Res	ults based on stude	nts re	ports	В	y schoo	l locatio	on				By type of sch	ool				By educa	ation lev	/el	
			l area		wn										wer		per		
		(fewe	illage er than people)	to 10	000 0 000 pple)		ity 00 000 ple)		ity – I area	Public	Private		ate – blic	edu	ndary cation ED 2)	educ (ISC	ndary cation ED 3)		ED 3 - CED 2
		Mean index	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.E.	Mean index S.E.	Mean index S.E.	Dif.	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.E.
Q	Australia	0.05	(0.05)	0.17	(0.03)	0.23	(0.02)	0.17	(0.06)	0.17 (0.01)	0.26 (0.02)	0.09	(0.02)	0.19	(0.01)	0.34	(0.04)	0.16	(0.04)
OECD	Austria	-0.24	(0.15)	-0.27	(0.03)	-0.32	(0.05)	-0.08	(0.15)	-0.31 (0.03)	-0.12 (0.09)	0.19	(0.09)	0.01	(0.17)	-0.29	(0.03)	-0.30	(0.17)
0	Belgium Canada	0.26		-0.40 0.26	(0.02)	-0.33 0.26	(0.03)	0.12	(0.10)	0.24 (0.02)	0.43 (0.07)	0.19	(0.07)	0.14	(0.06)	0.40	(0.02)	-0.26 0.00	(0.06)
	Chile	0.23	(0.23)	0.19	(0.03)	0.20	(0.02)	-0.01	(0.23)	0.18 (0.03)	0.43 (0.07)	0.04	(0.04)	0.20	(0.04)	0.21	(0.02)	0.01	(0.06)
	Czech Republic	-0.12	(0.07)	-0.18	(0.02)	-0.12	(0.03)	0.00	(0.08)	-0.17 (0.02)	-0.03 (0.04)	0.14	(0.05)	-0.13	(0.02)	-0.20	(0.03)	-0.07	(0.03)
	Denmark	0.38	(0.07)	0.25	(0.03)	0.28	(0.04)	-0.11	(0.09)	0.22 (0.03)		0.25	(0.05)	0.28	(0.02)	С	С	С	С
	Estonia	-0.17	(0.04)	-0.17	(0.02)	-0.19	(0.03)	-0.02	(0.05)	-0.17 (0.02)		0.16	(0.06)	-0.18	(0.02)		(0.12)	0.22	
	Finland France	-0.09 -0.22	(0.06)	-0.04 -0.28	(0.02)	-0.32	(0.03)	0.16 -0.10	(0.07)	-0.03 (0.02) -0.30 (0.02)		0.17 0.07	(0.07)	-0.02 -0.18	(0.02)	-0.32	(0.02)	-0.13	(0.04)
	Germany	-0.16		-0.20	(0.02)	-0.31	(0.04)			-0.23 (0.02)		-0.03	(0.09)	-0.22	(0.02)	-0.25	(0.02)	-0.03	(0.09)
	Greece	0.19	(0.10)	0.04	(0.04)	0.05	(0.03)	-0.14	(0.10)	0.04 (0.03)	0.29 (0.05)	0.25	(0.06)	0.13	(0.09)	0.05	(0.03)	-0.08	(0.10)
	Hungary	0.15	(0.15)	-0.12	(0.03)	-0.12	(0.03)	-0.28	(0.15)	-0.12 (0.02)		0.01	(0.05)	0.12	(0.09)	-0.14	(0.02)	-0.25	(0.09)
	Iceland	0.14	(0.04)	0.07	(0.02)	0.04	(0.03)	-0.10	(0.06)	0.07 (0.02)	C C	C	C	0.07	(0.02)	m	m	m	m
	Ireland Israel	0.03	(0.05)	-0.01 -0.05	(0.03)	-0.01 -0.11	(0.02)	-0.14	(0.06)	-0.02 (0.03) m m		-0.01 m	(0.04) m	-0.04 -0.12	(0.02)	-0.05	(0.02)	0.03	(0.03)
	Italy	-0.06	(0.11)	-0.07	(0.02)	-0.04	(0.04)	0.02		-0.07 (0.02)		0.23	(0.10)	0.23	(0.04)	-0.07	(0.02)	-0.30	(0.04)
	Japan	С	С	-0.28	(0.04)	-0.22	(0.02)	С	С	-0.31 (0.02)		0.22	(0.04)	m	m	-0.24	(0.02)	m	m
	Korea	С	С	0.06	(0.08)	-0.07	(0.03)	С	С	-0.07 (0.02)		0.06	(0.05)	0.03	(0.05)	-0.06	(0.03)	-0.08	(0.05)
	Luxambaurg	0.23	(0.05)	0.21	(0.02)	0.11	(0.03)		(0.06)	0.18 (0.02)	0.30 (0.13)	0.12	(0.13)	0.18	(0.02)	0.18	(0.10)	0.00	(0.10)
	Luxembourg Mexico	0.40	(0.04)	-0.34 0.34	(0.02)	-0.28 0.27	(0.02)	-0.14	(0.05)	0.33 (0.01)	-0.18 (0.04) 0.37 (0.08)	0.15 0.06	(0.04)	0.31	(0.02)	0.31	(0.02)	0.01	(0.03)
	Netherlands	0.40 C	(U.U4)	-0.10	(0.03)	-0.04	(0.05)	-0.14 C	(U.U3)	-0.08 (0.03)	-0.09 (0.03)	-0.02	(0.04)	-0.13	(0.04)	0.32	(0.02)	0.02	(0.04)
	New Zealand	0.19	(0.16)	0.25	(0.03)	0.30	(0.02)	0.11	(0.16)	0.25 (0.02)	0.40 (0.12)	0.15	(0.13)	0.19	(0.07)	0.26	(0.02)	0.07	(0.07)
	Norway	0.09	(0.06)	0.07	(0.03)	0.09	(0.04)		(0.07)	0.08 (0.02)		0.17	(0.16)	0.08	(0.02)	С	С	С	С
	Poland	-0.02	(0.04)	-0.06	(0.04)	-0.20	(0.04)	-0.18	(0.06)	-0.08 (0.02)	-0.11 (0.17)	-0.03	(0.17)	-0.08	(0.02)	C	C	C	C
	Portugal Slovak Republic	-0.10	(0.08)	-0.24	(0.02)	-0.43	(0.04) (0.05)	-0.02 - 0.33	(0.08)	0.52 (0.02)	0.78 (0.09)	0.25 0.00	(0.09)	-0.18	(0.02)	-0.30	(0.03)	0.03 -0.12	(0.04)
	Slovenia	-0.10	(0.03)	-0.24 C	(0.02) C	-0.43	(0.03)	-0.55	(0.07)	C C	C C	0.00	(0.07)	С. ГО	(0.03) C	-0.30	(0.02)	-0.12	(0.04) C
	Spain	0.34	(0.15)	0.15	(0.03)	0.13	(0.03)	-0.21	(0.15)	0.13 (0.03)	0.17 (0.03)	0.04	(0.04)	0.15	(0.02)	С	c	С	C
	Sweden	0.03	(0.09)	0.12	(0.03)	0.20	(0.05)		(0.11)	0.12 (0.03)		0.06	(0.07)	0.12	(0.03)	0.63	(0.12)	0.51	
	Switzerland	-0.01	(0.08)	-0.09	(0.02)	-0.12	(0.04)		(0.09)	-0.09 (0.02)	-0.12 (0.11)	-0.03	(0.11)	-0.11	(0.02)	-0.05	(0.04)	0.05	(0.04)
	Turkey United Kingdom	0.09	(0.06)	0.11	(0.03)	0.13	(0.02)	0.07	(0.07)	0.12 (0.02)	0.18 (0.09)	-0.03	(0.10)	0.21	(0.11)	0.12	(0.02)	-0.09	(0.11)
	United States	0.19	(0.08)	0.15	(0.02)	0.10	(0.04)	0.05	(0.07)	0.13 (0.02)	0.38 (0.12)	0.15	(0.12)	0.09	(0.07)	0.15	(0.02)	0.17	(0.07
	OECD average	0.06		0.01	(0.01)	0.00	(0.01)		(0.02)	0.00 (0.00)		0.10	(0.01)	0.05	(0.01)	0.03	(0.01)	-0.01	(0.02)
Š	Albania	С	С	С	С	С	С	С	С	СС	СС	С	С	С	С	С	С	С	С
Partners	Algeria	С	С	С	С	С	C	С	C	c c		С	C	С	С	С	С	С	С
Parl	Brazil	0.07	(0.11)	0.09	(0.02)	0.10	(0.03)		(0.11)	0.03 (0.02)		0.35	(0.05)	0.01	(0.03)		(0.02)		(0.04)
_	B-S-J-G (China) Bulgaria	-0.11	(0.05)	0.04	(0.02)	0.14	(0.03)	0.26	(0.05)	0.06 (0.02)	0.08 (0.06)	0.02	(0.06)	0.05	(0.02)		(0.02)	-0.03	(0.03)
	CABA (Argentina)	0.16 m	(0.13) m	0.26 C	(U.U2)	U.16	(U.U3)	0.03 m	(0.13) m	C C	СС	C	C	0.23 C	(U.13)	0.22 c	(U.U2)	-0.03	(U.14)
	Colombia	0.05	(0.04)	-0.01	(0.03)	0.07	(0.02)	0.03	(0.05)	0.00 (0.02)		0.19	(0.04)	-0.01	(0.02)	0.08	(0.02)	0.09	(0.02)
	Costa Rica	0.23	(0.04)	0.23	(0.03)	0.21	(0.05)	-0.02	(0.06)	0.22 (0.02)	0.19 (0.06)	-0.03	(0.06)	0.16	(0.03)	0.27	(0.03)	0.11	(0.03)
	Croatia	C	C (0, 00)	-0.14	(0.03)	-0.21	(0.03)	C	C	-0.16 (0.02)		0.03	(0.18)	С	C (0, 0C)	-0.16	(0.02)	C	C (0, 0C)
	Cyprus* Dominican Republic	0.31	(0.06)	0.07	(0.02)	0.12	(0.03)	-0.19 -0.02	(0.06)	0.08 (0.02)	0.20 (0.04) 0.10 (0.04)	0.13 0.03	(0.04)	0.09	(0.06)	0.10	(0.02)	0.01	(0.06)
	FYROM	0.10 C	(0.00) C	0.00 C	(0.03) C	C.00	(0.04) C	-0.02 C	(0.07)	C C	C C	0.03 C	(0.03) C	0.02 C	(0.03) C	C C	(0.02) C	C.07	(0.03) C
	Georgia	С	С	С	С	С	С	С	С	C C	C C	С	С	С	С	С	С	С	С
	Hong Kong (China)	m	m	m	m	0.08	(0.02)	m	m	0.08 (0.04)		0.00	(0.05)	0.03	(0.03)	0.11	(0.02)	0.08	
	Indonesia Jordan	C	C C	C	C C	C	C C	C	C C	C C	C C	C	C C	C	C	c m	c m	c m	c m
	Kosovo	С	С	С	С	С	С	C	С	c c		С	C	C	С	C	C	C	C
	Lebanon	С	С	С	С	С	С	С	С	СС	СС	С	C	С	C	С	С	С	С
	Lithuania	-0.07	(0.04)		(0.03)	-0.11	(0.03)		(0.05)	-0.12 (0.02)			(0.21)		(0.02)	С	C	С	C
	Macao (China) Malta	C	C	C	C	-0.07	(0.01)	C	C	C C		C	C	-0.10	(0.02)		(0.02)	0.07	(0.02)
	Moldova	C	C C	C	C C	m C	m C	m c	m C	C C		C C	C C	C	C C	C	C C	C	C C
	Montenegro	С	C		(0.02)	-0.15	(0.03)	С	С	-0.03 (0.02)		С	С	0.16	(0.24)	-0.04		-0.19	
	Peru	0.05		0.04	(0.02)	0.03	(0.04)	-0.03	(0.05)	0.03 (0.02)		0.03	(0.04)	0.04	(0.03)	0.04	(0.02)	0.00	
	Qatar	0.05		0.10	(0.01)	0.18	(0.01)		(0.05)	0.08 (0.01)		0.14	(0.02)	0.07	(0.02)	0.15	(0.01)	0.09	(0.02)
	Romania Russia	0.28	(0.03)	0.25	(0.03)	0.21	(0.03)	-0.07	(0.04)	0.23 (0.02)	C C	C C	C C	0.23	(0.02)	0.25	m (0.05)	0.02	(0.05)
	Singapore	m	(0.03) m	m	(0.03) m	0.40	(0.01)	m	(0.04) m	0.41 (0.01)		0.01	(0.06)	0.23	(0.02)	0.41	(0.03)	0.02	(0.16)
	Chinese Taipei	С	С	0.08	(0.02)	-0.01	(0.02)	С	С	0.02 (0.02)	0.05 (0.04)	0.03	(0.04)	0.11	(0.02)	-0.02	(0.02)	-0.12	(0.03)
	Thailand	0.18		0.14	(0.02)	0.12	(0.04)	-0.05	(0.06)	0.16 (0.02)	0.10 (0.04)	-0.05	(0.04)	0.16	(0.03)		(0.02)	-0.01	(0.03)
	Trinidad and Tobago Tunisia	0.02	(0.13)	0.16	(0.02)	0.16	m (0.03)	0.14	m (0.13)	0.15 (0.02)	0.31 (0.12)	0.15	(0.13)	0.13	(0.03)	0.15	(0.02)	0.02	(0.03)
	United Arab Emirates		(0.13)		(0.02)		(0.03)		(0.13)	0.13 (0.02)			(0.13)		(0.05)		(0.02)	0.02	
	Uruguay	0.06		0.00	(0.02)	0.01			(0.05)	-0.02 (0.02)			(0.05)		(0.03)		(0.02)	0.07	(0.04)
	Viet Nam	С	С	С	С	С	С	С	C	c c			С	С	С	С	C	С	С
	Argentina**	С	С	С	С	С	С	С	С	СС		С	С	С	С	С	С	С	С
	Kazakhstan**	C 40	(O, O2)	C 0.41	(O, O2)	C 24	(O, O2)	C	(O, O.4)	C C		C 11	(O, OO)	C 0.01	(O, OC)	C 20	(O, O2)	C 40	C (0, 07)
	Malaysia**	0.40	(0.02)	0.41	(0.03)	0.34	(0.03)	-0.06	(0.04)	0.38 (0.02)	0.28 (0.08)	-0.11	(0.09)	-0.01	(0.06)	0.39	(0.02)	0.40	(0.07)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 3/3]

Table II.2.23 Index of adaptive instruction in science lessons, by student and school characteristics

Ę.			in scienc	daptive instru e lessons		ins	ncrease on truction in	the index of science lesso	ns	per unit ir inst	ruction in	ted occupation the index of science lesso	adaptive ns
Ę.		Before accou students' and socio-econom	d schools'	After accor students' ar socio-econo	nd schools'	Before acco students' ar socio-econo	nd schools'	After acco students' a socio-econo	nd schools'	Before accor students' and socio-econor	d schools'	After acco students' a socio-econo	nd schools'
EC		Score dif.	S.E.	Score dif.	S.E.	Unit dif.	S.E.	Unit dif.	S.E.	Odds ratio	S.E.	Odds ratio	S.E.
OE	Australia	16	(1.2)	13	(1.2)	0.22	(0.01)	0.21	(0.01)	1.18	(0.03)	1.16	(0.03)
	Austria Belgium	-1 -2	(1.5)	0	(1.3)	0.10 0.09	(0.02)	0.10 0.10	(0.02)	1.08 1.14	(0.04)	1.09 1.16	(0.04)
	Canada	9	(1.4)	8	(1.1)	0.09	(0.01)	0.10	(0.01)	1.22	(0.03)	1.21	(0.03)
	Chile	9	(1.7)	8	(1.5)	0.16	(0.02)	0.15	(0.02)	1.08	(0.03)	1.08	(0.03)
	Czech Republic	9	(1.6)	7	(1.4)	0.15	(0.02)	0.15	(0.02)	1.22	(0.05)	1.20	(0.05)
	Denmark Denmark	17	(1.6)	14	(1.4)	0.19	(0.02)	0.17	(0.02)	1.25	(0.06)	1.24	(0.06)
	Estonia	6	(1.5)	6	(1.4)	0.14	(0.02)	0.14	(0.02)	1.18	(0.04)	1.18	(0.04)
	Finland	16	(1.6)	14	(1.5)	0.17	(0.02)	0.16	(0.02)	1.24	(0.05)	1.20	(0.05)
	France	-1	(1.5)	3	(1.1)	0.13	(0.02)	0.14	(0.02)	1.06	(0.04)	1.09	(0.04)
	Germany	13	(1.6)	10 4	(1.4)	0.17 0.10	(0.02) (0.01)	0.15 0.10	(0.02) (0.01)	1.21 1.09	(0.06)	1.18 1.09	(0.06)
	Greece Hungary	4	(1.8)	4	(1.4)	0.10	(0.01)	0.10	(0.01)	1.09	(0.05)	1.20	(0.05)
	Iceland	12	(1.7)	11	(1.7)	0.13	(0.02)	0.13	(0.02)	1.11	(0.05)	1.11	(0.05)
	Ireland	7	(1.3)	7	(1.2)	0.13	(0.02)	0.10	(0.02)	1.14	(0.04)	1.14	(0.03)
	Israel	7	(1.9)	8	(1.5)	0.22	(0.02)	0.23	(0.02)	1.35	(0.05)	1.34	(0.05)
	Italy	1	(1.7)	3	(1.6)	0.10	(0.02)	0.11	(0.02)	1.17	(0.05)	1.21	(0.05)
	Japan	5	(1.8)	0	(1.4)	0.18	(0.01)	0.16	(0.01)	1.12	(0.04)	1.08	(0.04)
	Korea	5	(2.0)	4	(1.6)	0.19	(0.02)	0.18	(0.02)	1.10	(0.04)	1.10	(0.04)
	Latvia	7	(1.9)	8	(1.6)	0.12	(0.02)	0.13	(0.02)	1.14	(0.05)	1.15	(0.05)
	Luxembourg	0	(1.6)	1	(1.3)	0.19	(0.02)	0.19	(0.02)	1.13	(0.04)	1.13	(0.04)
	Mexico	3	(1.3)	4	(1.2)	0.13	(0.02)	0.14	(0.02)	1.10	(0.03)	1.10	(0.04)
	Netherlands	23	(2.3)	15	(1.6)	0.20	(0.02)	0.17	(0.02)	1.26	(0.06)	1.20	(0.06)
	New Zealand Norway	10 19	(1.8)	7 17	(1.6)	0.20 0.23	(0.02) (0.02)	0.18 0.22	(0.02)	1.18 1.13	(0.05)	1.16 1.12	(0.05)
	Poland	7	(1.4)	7	(1.3)	0.23	(0.02)	0.22	(0.02)	1.07	(0.03)	1.06	(0.03)
	Portugal	8	(1.4)	9	(1.3)	0.11	(0.02)	0.11	(0.02)	1.19	(0.04)	1.21	(0.04)
	Slovak Republic	3	(1.5)	5	(1.3)	0.14	(0.02)	0.15	(0.02)	1.09	(0.05)	1.11	(0.05)
	Slovenia	m	m	m	m	m	m	m	m	С	C	С	C
	Spain	1	(1.6)	2	(1.5)	0.11	(0.02)	0.12	(0.02)	1.10	(0.04)	1.12	(0.04)
	Sweden	15	(1.4)	13	(1.3)	0.24	(0.02)	0.22	(0.02)	1.17	(0.04)	1.16	(0.04)
	Switzerland	7	(1.8)	6	(1.8)	0.15	(0.02)	0.14	(0.02)	1.13	(0.05)	1.13	(0.05)
	Turkey	8	(1.6)	7	(1.2)	0.20	(0.02)	0.20	(0.02)	1.05	(0.03)	1.05	(0.03)
	United Kingdom	12	(1.8)	12	(1.7)	0.20	(0.02)	0.20	(0.02)	1.23	(0.04)	1.22	(0.04)
	United States	7	(1.6)	5	(1.4)	0.20	(0.02)	0.18	(0.02)	1.07	(0.03)	1.06	(0.03)
	OECD average	8	(0.3)	7	(0.2)	0.16	(0.00)	0.16	(0.00)	1.15	(0.01)	1.15	(0.01)
rs	Albania	m	m	m	m	m	m	m	m	С	С	С	С
the t	Algeria	m	m	m	m	m	m	m	m	С	C	С	C
Partners	Brazil	14	(1.3)	8	(1.1)	0.21	(0.01)	0.20	(0.01)	1.09	(0.03)	1.06	(0.02)
	B-S-J-G (China)	18	(1.8)	8	(1.4)	0.21	(0.02)	0.18	(0.02)	1.22	(0.05)	1.17	(0.05)
	Bulgaria	10	(1.8)	9	(1.5)	0.19	(0.02)	0.19	(0.02)	1.14	(0.04)	1.13	(0.04)
	CABA (Argentina) Colombia	m 11	m (1.4)	m 7	m (1.2)	0.16	m (0.01)	0.14	m (0.01)	1.01	(0.03)	1.01	(0.03)
	Costa Rica	6	(1.1)	4	(1.1)	0.17	(0.01)	0.17	(0.01)	1.01	(0.03)	1.00	(0.03)
	Croatia	1	(1.4)	4	(1.2)	0.13	(0.01)	0.14	(0.01)	1.06	(0.03)	1.08	(0.03)
	Cyprus*	11	(1.5)	11	(1.4)	0.24	(0.02)	0.24	(0.02)	1.19	(0.04)	1.20	(0.04)
	Dominican Republic	7	(1.6)	5	(1.5)	0.25	(0.03)	0.25	(0.03)	1.06	(0.04)	1.06	(0.04)
	FYROM .	m	m	m	m	m	m	m	m	С	С	С	С
	Georgia	m	m	m	m	m	m	m	m	С	С	С	С
	Hong Kong (China)	8	(1.8)	8	(1.7)	0.23	(0.03)	0.22	(0.03)	1.14	(0.04)	1.12	(0.04)
	Indonesia	m	m	m	m	m	m	m	m	С	С	С	С
	Jordan Kosovo	m	m	m	m	m	m	m	m	С	c	С	C
	Kosovo Lebanon	m	m m	m m	m m	m m	m m	m m	m m	С	C C	С	С
	Lithuania	6	m (1.6)	6	m (1.3)	0.15	(0.02)	0.15	(0.02)	1.12	(0.03)	1.11	(0.03)
	Macao (China)	7	(1.6)	6	(1.6)	0.15	(0.02)	0.15	(0.02)	1.14	(0.05)	1.14	(0.05)
	Malta	m	m	m	m	m	m	m	m	С	(0.03) C	C	(0.03) C
	Moldova	m	m	m	m	m	m	m	m	c	c	c	C
	Montenegro	-1	(1.4)	4	(1.3)	0.18	(0.01)	0.20	(0.01)	1.04	(0.04)	1.07	(0.04)
	Peru	0	(1.6)	0	(1.3)	0.15	(0.02)	0.15	(0.02)	1.16	(0.04)	1.16	(0.04)
	Qatar	17	(1.1)	14	(1.1)	0.26	(0.02)	0.24	(0.02)	1.18	(0.03)	1.17	(0.02)
	Romania	m	m	m	m	m	m	m	m	С	C	C	C
	Russia	9	(1.3)	8	(1.3)	0.18	(0.02)	0.17	(0.02)	1.09	(0.05)	1.08	(0.05)
	Singapore	18	(1.7)	13	(1.6)	0.21	(0.02)	0.20	(0.02)	1.19	(0.04)	1.17	(0.04)
	Chinese Taipei Thailand	-1	(1.4)	-1	(1.1)	0.11	(0.01)	0.11	(0.01)	1.06	(0.04)	1.05	(0.04)
	Trinidad and Tobago	6 m	(1.7)	6 m	(1.6)	0.18	(0.01)	0.18	(0.01) m	1.05 c	(0.04)	1.05	(0.04) c
	Tunisia	0 0	m (1.5)	m 1	m (1.4)	0.18	m (0.02)	0.18	(0.02)	1.09	(0.03)	c 1.11	(0.03)
	United Arab Emirates	16	(1.3)	15	(1.4)	0.18	(0.02)	0.16	(0.02)	1.17	(0.03)	1.17	(0.03)
	Uruguay	8	(1.8)	5	(1.5)	0.16	(0.01)	0.15	(0.01)	1.06	(0.03)	1.04	(0.03)
	Viet Nam	m	m	m	m	m	m	m	m	С	(0.03)	С	C C
	Argentina**	m	m	m	m	m	m	m	m	С	С	С	С
		m	m	m	m	m	m	m	m	C	C	c	C
\neg	Kazakhstan**				411		(0.02)		(0.02)		(0.04)		_

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/3]

Table II.2.26 Enquiry-based instruction in science lessons

Res	ults based on stude	ents'	repo	rts		Per	centac	ge of st	udent	s who	renori	ted tha	t the f	ollowi	ng thi	ngs ha	nnen i	n their	r scien	ce less	ons				
			Stu		are giv	en opp	ortuni		uuem	_	<u> </u>	spend	time i	n the la	aborat	ory doi	··	li diei		udents	are re	quired		ue	
			all	In r	explain nost sons		ome		ver ardly		all	ln r	nost		ome ons	or h	ever ardly ver		all	ln r	t scien nost	In se	ome	or h	ever ardly ver
		%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
9	Australia	33.8	(0.5)	40.0	(0.6)	21.2	(0.5)	5.1	(0.3)	4.6	(0.3)	19.0	(0.5)	62.8	(0.6)	13.5	(0.5)	6.4	(0.3)	17.9	(0.5)	42.2	(0.6)	33.5	(0.7)
OECD	Austria Belgium	30.0	(0.9)	32.4	(0.8)	24.4	(0.8)	13.2	(0.7)	5.8	(0.5)	12.1 7.8	(0.8)	32.0 40.0	(0.9)	50.1	(1.7)	9.4 5.9	(0.6)	19.7	(0.8)	37.5 34.8	(0.9)	33.4 46.0	(1.2)
	Canada	40.4	(0.6)	36.7	(0.6)	18.0	(0.4)	4.9	(0.3)	8.9	(0.3)	19.9	(0.6)	58.6	(0.6)	12.6	(0.6)	10.1	(0.4)	19.8	(0.4)	40.5	(0.6)	29.6	(0.6)
	Chile	41.6	(0.8)	29.1	(0.7)	23.6	(0.7)	5.7	(0.4)	10.6	(0.6)	9.8	(0.5)	40.0	(1.4)	39.6	(1.7)	14.3	(0.6)	18.8	(0.6)	42.2	(0.6)	24.6	(0.7)
	Czech Republic Denmark	41.9	(0.8)	31.1	(0.6)	20.4	(0.7)	6.5 8.4	(0.5)	13.4	(0.4)	7.3 54.9	(0.6)	44.6 28.4	(0.9)	3.3	(1.8)	9.3	(0.4)	19.4 33.2	(0.6)	43.4 38.8	(0.8)	27.9 15.1	(0.8)
	Estonia	28.4	(0.7)	41.8	(0.7)	25.2	(0.7)	4.5	(0.3)	2.9	(0.3)	6.1	(0.4)	54.6	(1.3)	36.4	(1.4)	4.0	(0.3)	11.0	(0.5)	41.4	(0.8)	43.6	(1.0)
	Finland	31.0	(0.8)	40.7	(0.7)	22.9	(0.6)	5.5	(0.4)	3.2	(0.2)	17.6	(0.8)	48.9	(0.8)	30.3	(1.1)	3.6	(0.3)	11.5	(0.6)	35.0	(0.7)	50.0	(1.0)
	France Germany	38.3	(1.0)	35.4 40.0	(0.7)	19.2	(0.7)	7.0	(0.4)	5.5	(0.4)	23.8 17.6	(0.7)	46.9	(0.9)	23.8	(0.9)	13.5	(0.5)	31.7	(0.8)	37.4 42.0	(0.7)	17.4 27.9	(0.7)
	Greece	38.9	(1.0)	29.9	(0.6)	24.5	(0.7)	6.6	(0.4)	5.6	(0.5)	9.0	(0.7)	35.4	(1.5)	50.0	(1.8)	11.0	(0.6)	20.2	(0.8)	39.5	(0.8)	29.2	(0.8)
	Hungary	26.4	(0.8)	35.6	(1.0)	27.5	(0.8)	10.5	(0.5)	3.6	(0.4)	8.1	(0.5)	29.1	(1.0)	59.2	(1.2)	5.9	(0.4)	12.7	(0.6)	39.9	(0.9)	41.5	(0.9)
	Iceland Ireland	35.0 28.3	(0.8)	37.4 35.1	(0.9)	21.6 25.8	(0.7)	10.9	(0.5)	3.5 4.2	(0.3)	4.9	(0.4)	31.2 63.0	(0.8)	60.5	(0.9)	8.6 7.5	(0.5)	20.9	(0.8)	45.3 38.6	(1.0)	25.1 35.8	(0.8)
	Israel	28.5	(0.9)	31.5	(0.7)	26.8	(0.7)	13.2	(0.5)	5.5	(0.4)	15.6	(0.7)	43.8	(1.3)	35.1	(1.7)	14.9	(0.6)	29.0	(0.6)	39.3	(0.7)	16.9	(0.7)
	Italy	41.0	(0.7)	33.9	(0.7)	19.4	(0.8)	5.7	(0.4)	4.4	(0.3)	10.4	(0.6)	43.2	(1.2)	42.0	(1.4)	8.1	(0.5)	19.7	(0.6)	48.3	(0.8)	23.9	(0.7)
	Japan Korea	17.3	(0.8)	30.0	(0.8)	35.8 34.8	(0.8)	16.8	(0.9)	6.2	(0.5)	8.6 6.8	(0.7)	44.7 34.3	(1.9)	40.5 55.6	(2.3)	4.0	(0.4)	8.3	(0.4)	26.4 28.3	(0.9)	61.3 59.3	(1.2)
	Latvia	31.0	(0.9)	36.6	(0.7)	25.9	(0.8)	6.5	(0.4)	3.0	(0.3)	10.1	(0.6)	70.3	(1.0)	16.7	(0.9)	6.7	(0.4)	20.7	(0.8)	48.2	(0.9)	24.4	(0.8)
	Luxembourg	41.0	(0.9)	31.8	(0.8)	19.3	(0.6)	7.8	(0.4)	6.9	(0.4)	17.0	(0.5)	45.8	(0.7)	30.3	(0.6)	12.6	(0.5)	24.3	(0.6)	38.7	(0.7)	24.5	(0.6)
	Mexico Netherlands	47.6 14.1	(0.9)	28.2 38.8	(0.6)	21.4 35.2	(0.6)	2.7	(0.3)	15.6 9.4	(0.7)	19.5	(0.7)	44.9 52.7	(0.9)	20.0	(0.8)	14.8	(0.6)	18.7	(0.6)	42.9	(0.8)	23.6 42.5	(0.9)
	New Zealand	33.7	(1.0)	40.0	(0.9)	21.0	(0.7)	5.3	(0.4)	4.3	(0.4)	17.6	(1.0)	62.8	(1.0)	15.2	(0.8)	8.0	(0.4)	23.4	(0.7)	40.8	(0.8)	27.9	(0.9)
	Norway	26.2	(0.8)	40.8 32.2	(0.8)	25.4 30.5	(0.9)	7.5	(0.4)	3.6	(0.3)	12.8	(0.8)	62.6	(1.3)	21.0	(1.5)	6.7	(0.5)	27.4	(0.8)	48.8	(0.9)	17.1	(0.7)
	Poland Portugal	26.7 53.9	(0.8)	29.6	(0.8)	13.2	(0.8)	10.6	(0.6)	3.1 8.9	(0.4)	4.5	(0.4)	28.9 56.7	(1.4)	19.6	(1.6)	9.5	(0.5)	25.5	(0.7)	38.3	(0.7)	20.6 17.6	(0.8)
	Slovak Republic	35.0	(0.8)	32.9	(0.7)	24.2	(0.7)	7.9	(0.4)	6.0	(0.5)	9.4	(0.6)	35.3	(1.2)	49.3	(1.6)	7.0	(0.5)	13.9	(0.6)	40.1	(0.7)	39.0	(0.9)
	Slovenia Spain	41.2 36.7	(1.1)	31.3	(1.2)	18.5	(0.9)	9.0	(0.8)	10.7	(0.7)	16.0	(1.0)	55.4 32.1	(1.3)	17.9	(0.9)	10.8	(0.7)	27.5 13.6	(0.6)	44.2	(1.2)	17.6 40.1	(0.8)
	Sweden	31.5	(0.9)	40.9	(0.8)	22.3	(0.7)	5.3	(0.4)	6.5	(0.4)	17.9	(0.9)	59.3	(1.1)	16.4	(1.0)	14.3	(0.7)	33.9	(0.8)	42.4	(0.7)	9.4	(0.6)
	Switzerland	37.4	(1.1)	34.2	(0.8)	20.2	(0.9)	8.2	(0.5)	6.0	(0.6)	18.5	(0.8)	44.3	(1.2)	31.1	(1.3)	10.3	(0.6)	26.1	(0.9)	39.3	(0.7)	24.4	(0.9)
	Turkey United Kingdom	44.6 35.8	(0.8)	30.8	(0.7)	20.1	(0.6)	4.5 5.7	(0.3)	10.0	(0.6)	10.7	(0.8)	28.9 62.5	(1.6)	50.4 18.9	(1.9)	21.9 5.3	(0.9)	26.9 12.4	(0.7)	37.0 37.0	(0.9)	14.1 45.3	(0.6)
	United States	36.7	(1.2)	37.6	(0.8)	19.9	(0.9)	5.8	(0.4)	13.0	(0.6)	25.6	(0.8)	47.1	(1.1)	14.3	(0.9)	12.4	(0.8)	18.1	(0.6)	35.9	(0.9)	33.5	(1.0)
	OECD average	33.6	(0.1)	34.9	(0.1)	23.5	(0.1)	7.9	(0.1)	6.2	(0.1)	14.7	(0.1)	46.3	(0.2)	32.8	(0.2)	9.4	(0.1)	20.3	(0.1)	40.0	(0.1)	30.4	(0.1)
Ls	Albania	69.9	(0.8)	18.4	(0.7)	9.9	(0.5)	1.8	(0.2)	4.2	(0.4)	9.7	(0.6)	44.8	(1.1)	41.4	(1.2)	13.0	(0.6)	26.1	(0.8)	46.8	(0.9)	14.2	(0.8)
Partners	Algeria Brazil	47.1 17.5	(0.6)	22.0	(0.5)	21.3 39.4	(0.6)	9.6	(0.5)	12.9 4.3	(0.6)	26.0 6.7	(0.7)	39.8 24.4	(0.8)	21.3	(0.9)	21.9 12.8	(0.7)	26.8	(0.7)	33.2 44.0	(0.7)	18.0	(0.8)
Pa	B-S-J-G (China)	30.3	(0.8)	34.0	(0.8)	28.1	(0.9)	7.6	(0.4)	4.6	(0.2)	6.8	(0.5)	51.8	(1.8)	36.8	(2.0)	6.9	(0.4)	13.9	(0.7)	43.7	(0.8)	35.4	(1.0)
	Bulgaria	32.1	(0.9)	35.1	(0.7)	24.9	(0.8)	8.0	(0.5)	8.7	(0.6)	12.6	(0.7)	26.3	(1.1)	52.4	(1.7)	14.7	(0.6)	28.7	(0.7)	41.5	(0.8)	15.1	(0.7)
	CABA (Argentina) Colombia	33.2 42.5	(1.6)	29.7 27.6	(0.6)	27.1	(0.7)	10.0	(1.0)	2.8 5.7	(0.5)	8.1	(0.5)	46.1	(3.0)	43.0	(3.7)	4.1	(0.6)	12.8 15.0	(0.8)	38.0 43.4	(1.2)	45.1 30.7	(1.5)
	Costa Rica	30.7	(0.7)	30.1	(0.7)	28.9	(0.6)	10.3	(0.6)	3.6	(0.3)	4.2	(0.3)	15.2	(0.9)	77.0	(1.1)	12.4	(0.4)	19.7	(0.6)	41.8	(0.8)	26.2	(0.8)
	Croatia	25.5	(0.7)	36.9	(0.7)	28.0	(0.7)	9.6	(0.4)	5.1	(0.4)	7.8	(0.4)	29.3	(1.1)	57.9	(1.3)	8.2	(0.4)	17.2	(0.6)	43.3	(0.8)	31.3	(0.7)
	Cyprus* Dominican Republic	40.4 63.9	(0.7)	33.6	(0.7)	21.0	(0.7)	5.1	(0.4)	9.0	(0.4)	19.1	(0.6)	52.2 30.2	(0.7)	18.0	(0.5)	16.9 36.3	(0.5)	29.5 25.5	(0.7)	38.9 28.8	(0.9)	14.7 9.4	(0.5)
	FYROM	42.5	(0.7)	27.8	(0.6)	24.5	(0.7)	5.2	(0.4)	6.6	(0.4)	8.8	(0.4)	27.6	(0.7)	57.0	(0.7)	12.3	(0.5)	18.1	(0.6)	45.8	(0.7)	23.8	(0.7)
	Georgia	61.3	(0.8)	21.9	(0.7)	14.3	(0.6)	2.5	(0.2)	6.8	(0.5)	7.2	(0.5)	37.5	(1.3)	48.5	(1.7)	30.5	(0.8)	29.6	(0.6)	34.4	(0.7)	5.5	(0.4)
	Hong Kong (China) Indonesia	16.2 35.4	(0.7)	41.3	(0.7)	36.9 35.7	(0.9)	5.6 4.5	(0.5)	7.3	(0.5)	25.8	(0.9)	60.4 54.6	(1.0)	35.1	(0.6)	24.3	(0.5)	18.1	(1.0)	45.8	(0.8)	30.0	(1.2)
	Jordan	49.5	(1.0)	29.7	(0.7)	14.7	(0.6)	6.2	(0.4)	12.0	(0.6)	22.7	(0.8)	31.1	(1.0)	34.2	(1.4)	19.7	(0.6)	31.5	(0.8)	31.4	(0.7)	17.4	(0.6)
	Kosovo Lebanon	72.1 51.5	(0.7)	16.6 26.8	(0.7)	9.1	(0.5)	3.3	(0.2)	6.8 7.2	(0.5)	10.3 18.4	(0.5)	34.6 46.4	(0.9)	48.3	(0.9)	24.3	(0.8)	29.7 30.2	(0.8)	37.5 37.1	(0.8)	8.5 9.0	(0.5)
	Lithuania	40.8	(0.7)	32.2	(0.8)	21.0	(0.6)	5.9	(0.4)	8.1	(0.4)	12.1	(0.5)	55.2	(0.8)	24.7	(0.8)	18.0	(0.5)	29.8	(0.7)	40.1	(0.8)	12.1	(0.5)
	Macao (China)	17.4	(0.7)	34.4		40.1	(0.8)	8.1	(0.4)	3.7	(0.3)	9.3	(0.5)	76.3	(0.8)	10.7	(0.5)	4.4	(0.3)	15.2	(0.6)	59.8	(0.8)	20.6	(0.5)
	Malta Moldova	33.1	(0.8)	35.7 20.2	(0.8)	23.2 12.2	(0.7)	8.0	(0.5)	4.2	(0.3)	16.3	(0.7)	66.6 58.6	(0.8)	12.9	(0.5)	10.2	(0.5)	26.1 29.5	(0.7)	40.3	(0.8)	23.4 5.1	(0.7)
	Montenegro	33.0	(0.7)	31.6	(0.8)	24.7	(0.6)	10.8	(0.4)	8.4	(0.4)	10.3	(0.4)	20.5	(0.6)	60.8	(0.6)	12.9	(0.5)	20.2	(0.6)	36.7	(0.7)	30.1	(0.6)
	Peru	51.7	(0.7)	28.8	(0.6)	17.2	(0.6)	2.2	(0.2)	16.4	(0.8)	16.7	(0.7)	36.1	(1.0)	30.8	(1.4)	29.6	(0.7)	30.0	(0.7)	33.9	(0.7)	6.5	(0.4)
	Qatar Romania	35.1 45.8	(0.4)	34.2 26.7	(0.5)	24.1	(0.4)	6.6 4.9	(0.2)	12.9	(0.3)	24.8 11.6	(0.5)	46.5 54.8	(0.5)	15.8 25.2	(0.3)	20.2	(0.4)	30.3	(0.5)	35.0 50.1	(0.5)	14.4 23.0	(0.4)
	Russia	33.1	(1.0)	35.1	(0.7)	25.8	(0.9)	6.0	(0.4)	8.0	(0.5)	24.6	(1.1)	63.4	(1.0)	3.9	(0.4)	19.6	(0.8)	36.0	(0.7)	37.1	(0.6)	7.2	(0.3)
	Singapore Chinese Tainei	23.4	(0.5)	46.5	(0.7)	26.3	(0.6)	3.9	(0.3)	6.4	(0.4)	15.3	(0.8)	66.7	(0.8)	11.6	(0.5)	6.1	(0.3)	15.8	(0.5)	43.0	(0.6)	35.1	(0.7)
	Chinese Taipei Thailand	24.8 14.5	(0.6)	32.8	(0.7)	33.2 56.0	(0.8)	9.2	(0.4)	3.9 7.9	(0.2)	15.6	(0.4)	55.8 62.0	(0.8)	33.4 14.6	(1.3)	7.2	(0.2)	7.8 15.6	(0.4)	43.4 52.5	(0.8)	44.6 24.7	(0.8)
	Trinidad and Tobago	39.5	(0.8)	31.6	(0.7)	22.2	(0.6)	6.7	(0.4)	8.2	(0.4)	24.4	(0.7)	45.6	(0.8)	21.7	(0.6)	9.5	(0.5)	17.3	(0.6)	37.2	(0.7)	36.0	(0.8)
	Tunisia	41.9	(0.8)	28.9	(0.7)	23.3	(0.6)	5.9	(0.4)	11.4	(0.5)	24.0	(0.7)	44.5	(0.8)	20.0	(0.8)	21.1	(0.6)	29.8	(0.8)	37.2	(0.8)	11.9	(0.5)
	United Arab Emirates Uruguay	35.2 36.1	(0.7)	34.9	(0.5)	22.8 26.1	(0.4)	7.1 6.3	(0.4)	13.1	(0.4)	22.7 10.5	(0.6)	44.0 52.4	(0.8)	30.6	(0.9)	19.7	(0.6)	28.8 17.2	(0.7)	35.1 46.1	(0.7)	16.4 28.7	(0.4)
	Viet Nam	37.3		27.5	(0.8)	29.0	(0.8)	6.3	(0.5)	3.2	(0.4)	3.3	(0.3)	67.0	(1.7)		(1.8)	18.8	(0.7)	23.9		51.3	(0.8)	5.9	
	Argentina**	41.4	(0.9)	26.5	(0.7)	25.8	(0.7)	6.2	(0.4)	6.3	(0.4)	9.0	(0.5)	31.8	(1.2)		(1.5)	9.3	(0.5)	14.0	(0.5)		(0.9)	37.5	(0.9)
	Kazakhstan** Malaysia**	58.7	(0.9)	29.9	(0.8)	9.2	(0.5)	2.1	(0.2)	15.6	(0.7)	20.1	(0.6)	49.0	(0.8)	15.3	(0.8)	30.5	(0.9)	36.5 16.2	(0.7)	29.6 46.6	(0.8)	3.5	(0.3)
_	ivialdySld.	33.9	(1.1)	32.5	(0.0)	29.3	(0.0)	1 2.2	(0.2)	13.9	(U.5)	20.6	(0.7)	30.9	(0.9)	0.5	(U.5)	7.6	(0.5)	110.2	(0.0)	40.0	(0.7)	29.6	(0.9)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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Table II.2.26 Enquiry-based instruction in science lessons

Res	ults based on stude	ents'	repo	rts		Dor	conta	ge of st	udont	e who	ronori	od tha	t the	iallawi	na thi	nge ha	nnon i	n thair	ccion	co loca	one				
						to drav	v conc	lusions	· · · · · · · · · · · · · · · · · · ·	Th id	e teach ea can henom	ner exp be app ena (e	lains h blied to g. the	ow a < o a nun moven similar	schoo nber of nent of	l sciend differd f objec	ce> ent	n their		udents	are al	lowed experin		gn	
			all sons		nost		ome	or h	ardly		all sons		nost	In se		or h	ever ardly er		all sons		nost		ome	or h	ever ardly er
		%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
8	Australia Austria	15.4 9.0	(0.4)	40.2 19.4	(0.6)	38.5 33.8	(0.5)	5.9 37.8	(0.3)	27.1 19.2	(0.5)	42.8 32.4	(0.5)	24.6	(0.5)	5.4 19.6	(0.3)	3.9	(0.2)	9.4 7.2	(0.4)	35.0 16.4	(0.7)	51.7 72.7	(0.8)
OECD	Belgium	10.9	(0.4)	29.0	(0.6)	41.6	(0.7)	18.5	(0.6)	23.8	(0.6)	37.6	(0.6)	27.7	(0.6)	10.9	(0.4)	4.4	(0.3)	6.9	(0.3)	20.3	(0.5)	68.4	(0.7)
	Canada	17.6	(0.4)	35.4	(0.6)	40.2	(0.6)	6.8	(0.4)	33.5	(0.6)	39.6	(0.6)	21.5	(0.5)	5.5	(0.3)	8.0	(0.4)	13.0	(0.4)	30.5	(0.6)	48.5	(0.8)
	Chile	16.2	(0.8)	19.2	(0.6)	44.8	(8.0)	19.8	(1.0)	33.8	(0.8)	34.5	(8.0)	26.3	(0.7)	5.4	(0.3)	7.8	(0.5)	8.5	(0.5)	30.1	(0.8)	53.6	(1.2)
	Czech Republic Denmark	13.5	(0.6)	20.9	(0.7)	38.7	(0.8)	26.9	(0.4)	21.8	(0.7)	35.9	(0.7)	33.1	(0.6)	9.2	(0.5)	5.1	(0.4)	8.7	(0.5)	22.7	(0.8)	63.4	(1.2)
	Estonia	7.0	(0.6)	46.0 22.7	(0.8)	55.0	(0.7)	5.9 15.3	(0.4)	17.6	(0.9)	45.7	(0.8)	35.6	(0.7)	3.5 6.6	(0.3)	3.7	(0.3)	7.4	(0.4)	30.2	(1.0)	63.7 58.2	(1.2)
	Finland	7.0	(0.4)	29.7	(0.9)	43.0	(0.7)	20.3	(0.8)	14.2	(0.6)	39.5	(0.7)	36.3	(0.7)	9.9	(0.5)	1.7	(0.2)	4.5	(0.3)	13.6	(0.6)	80.2	(0.8)
	France	21.9	(0.6)	43.1	(0.8)	27.9	(0.8)	7.1	(0.5)	29.2	(0.7)	37.2	(0.7)	25.4	(0.6)	8.2	(0.4)	7.2	(0.5)	14.8	(0.5)	31.9	(0.7)	46.1	(1.0)
	Germany	18.6	(0.7)	40.1	(0.7)	30.2	(0.8)	11.1	(0.6)	16.5	(0.7)	39.5 30.8	(0.8)	33.7	(0.8)	10.3	(0.6)	3.7	(0.3)	9.1	(0.4)	23.2 18.5	(0.7)	63.9	(0.9)
	Greece Hungary	6.9	(0.6)	19.6 19.7	(0.8)	38.8 37.3	(1.0)	30.6	(1.4)	20.6	(0.6)	37.1	(0.7)	36.5 28.0	(0.7)	11.0	(0.5)	6.1	(0.4)	8.2	(0.7)	21.4	(0.9)	66.5	(1.6)
	Iceland	6.3	(0.4)	13.6	(0.6)	39.0	(0.8)	41.1	(0.9)	16.7	(0.7)	33.6	(1.0)	35.6	(0.9)	14.1	(0.6)	4.1	(0.4)	6.7	(0.5)	26.7	(0.7)	62.5	(0.8)
	Ireland	14.8	(0.6)	40.0	(8.0)	38.7	(8.0)	6.4	(0.4)	25.2	(0.7)	37.9	(8.0)	28.0	(0.7)	8.9	(0.6)	2.2	(0.2)	4.0	(0.3)	24.1	(0.8)	69.7	(0.9)
	Israel	13.2	(0.6)	26.1	(0.8)	38.5	(0.9)	22.2	(1.3)	20.1	(0.7)	31.1	(0.7)	32.2	(0.7)	16.5	(0.6)	8.5	(0.5)	13.0	(0.6)	24.0	(0.7)	54.5	(1.0)
	Italy Japan	8.0	(0.5)	16.3	(0.7)	38.4	(1.0)	37.3 36.9	(1.3)	13.2	(0.6)	31.7	(0.7)	40.6 38.7	(0.7)	14.5 21.5	(0.6)	4.7 3.4	(0.3)	8.3 7.0	(0.4)	20.8	(0.7)	66.1	(0.9)
	Korea	3.9	(0.3)	9.7	(0.6)	32.8	(1.3)	53.7	(1.6)	19.5	(0.7)	35.5	(0.7)	31.7	(0.7)	13.3	(0.7)	3.7	(0.3)	8.8	(0.4)	25.6	(0.9)	61.9	(1.1)
	Latvia	8.8	(0.5)	34.3	(0.9)	49.8	(0.9)	7.1	(0.5)	23.6	(0.7)	40.5	(8.0)	30.9	(0.8)	5.1	(0.3)	4.3	(0.4)	10.7	(0.5)	33.7	(0.8)	51.3	(1.1)
	Luxembourg	15.4	(0.4)	30.6	(0.7)	38.3	(0.7)	15.7	(0.5)	26.1	(0.6)	35.9	(0.8)	28.4	(0.7)	9.5	(0.4)	6.7	(0.4)	10.9	(0.4)	22.4	(0.6)	60.1	(0.6)
	Mexico Netherlands	23.8	(0.7)	28.4	(0.8)	37.3 47.6	(0.7)	10.5	(0.7)	40.1	(0.8)	32.2 35.3	(0.6)	22.8	(0.6)	4.9	(0.3)	13.3	(0.6)	16.4	(0.5)	35.2 25.3	(0.7)	35.1 63.4	(1.0)
	New Zealand	10.8	(0.6)	38.4	(0.8)	43.8	(0.9)	7.1	(0.4)	26.5	(0.0)	41.8	(0.8)	26.5	(0.7)	5.2	(0.4)	3.8	(0.3)	9.2	(0.6)	25.7	(0.8)	61.3	(1.1)
	Norway	7.8	(0.5)	27.1	(1.0)	52.3	(0.9)	12.8	(0.8)	14.3	(0.7)	39.8	(0.8)	37.1	(0.8)	8.8	(0.5)	3.4	(0.3)	7.8	(0.4)	24.0	(0.7)	64.7	(1.0)
	Poland	11.0	(0.5)	29.3	(8.0)	44.2	(0.8)	15.4	(0.9)	23.5	(8.0)	40.1	(0.9)	29.7	(0.7)	6.7	(0.5)	5.4	(0.4)	10.9	(0.6)	31.6	(0.9)	52.1	(1.2)
	Portugal	19.0	(0.7)	28.8	(0.8)	42.3	(0.8)	9.8	(0.7)	28.5	(0.8)	36.3	(0.7)	28.9	(0.8)	6.4	(0.5)	8.5	(0.5)	11.0	(0.5)	23.7	(0.8)	56.8	(1.1)
	Slovak Republic Slovenia	12.3	(0.7)	19.2 27.9	(0.7)	38.1 45.4	(1.0)	30.4	(1.3)	17.7	(0.7)	31.1	(0.8)	34.0	(0.8)	17.3 13.1	(0.8)	5.9 9.6	(0.5)	10.5	(0.6)	23.6	(0.7)	60.1 32.0	(1.1)
	Spain	8.5	(0.4)	18.9	(0.7)	37.9	(0.7)	34.7	(1.3)	18.7	(0.7)	35.3	(0.9)	33.8	(0.8)	12.2	(0.6)	4.3	(0.3)	6.8	(0.4)	21.3	(0.8)	67.7	(1.0)
	Sweden	18.1	(0.8)	37.8	(8.0)	37.6	(1.0)	6.5	(0.6)	22.0	(0.8)	42.7	(0.9)	29.0	(0.8)	6.4	(0.5)	7.0	(0.5)	15.8	(0.6)	40.0	(0.9)	37.2	(1.3)
	Switzerland	14.5	(0.8)	36.4	(1.0)	36.4	(0.9)	12.7	(0.7)	25.8	(0.7)	39.9	(0.7)	25.7	(0.8)	8.6	(0.5)	5.7	(0.4)	11.6	(0.5)	26.0	(1.0)	56.8	(1.3)
	Turkey United Kingdom	18.6	(0.8)	21.9 36.8	(0.7)	31.6 44.5	(0.9)	7.0	(1.0)	26.4	(0.7)	32.0 39.2	(0.8)	30.2	(0.7)	9.3	(0.5)	17.5 3.3	(0.8)	18.8	(0.6)	28.0	(0.7)	35.7 61.4	(1.1)
	United States	23.1	(0.9)	37.4	(0.7)	33.0	(0.8)	6.5	(0.4)	31.9	(0.8)	35.6	(0.5)	25.7	(0.6)	6.8	(0.4)	10.1	(0.6)	15.3	(0.5)	32.6	(0.7)	42.1	(1.2)
i	OECD average	13.1	(0.1)	28.4	(0.1)	39.3	(0.1)	19.2	(0.2)	22.6	(0.1)	36.5	(0.1)	30.8	(0.1)	10.1	(0.1)	5.7	(0.1)	10.0	(0.1)	26.4	(0.1)	57.8	(0.2)
S	Albania	13.9	(0.7)	29.9	(0.8)	41.2	(0.8)	15.0	(0.7)	25.0	(0.9)	30.8	(0.7)	34.3	(0.8)	9.9	(0.6)	32.6	(0.9)	31.4	(0.8)	28.9	(0.8)	7.1	(0.4)
Partners	Algeria	35.4	(0.9)	29.0	(0.8)	26.9	(0.8)	8.7	(0.5)	38.2	(0.9)	27.4	(0.6)	25.5	(0.7)	8.9	(0.4)	17.0	(0.6)	21.7	(0.7)	32.6	(0.7)	28.7	(0.9)
art	Brazil	11.9	(0.4)	20.1	(0.5)	38.7	(0.7)	29.3	(0.7)	23.2	(0.5)	34.3	(0.5)	31.8	(0.5)	10.8	(0.4)	9.8	(0.3)	15.8	(0.5)	33.9	(0.7)	40.5	(0.7)
_	B-S-J-G (China)	8.7	(0.4)	17.1	(0.8)	47.7	(1.0)	26.5	(1.2)	18.3	(0.7)	31.2	(0.8)	38.2	(0.9)	12.4	(0.6)	5.2	(0.4)	7.9	(0.5)	37.4	(1.0)	49.4	(1.3)
	Bulgaria CABA (Argentina)	13.1	(0.6)	23.7	(0.9)	35.6 44.1	(0.8)	27.6	(1.1)	26.3 18.2	(0.7)	35.2 34.0	(0.7)	30.6	(0.7)	7.9	(0.5)	9.9	(0.6)	14.7	(0.7)	27.7 19.0	(0.9)	47.7 73.6	(1.4)
	Colombia	14.1	(0.6)	22.6	(0.7)	42.8	(0.7)	20.5	(1.0)	27.6	(0.7)	32.2	(0.6)	30.7	(0.6)	9.5	(0.5)	9.6	(0.5)	12.4	(0.5)	34.8	(0.7)	43.3	(1.0)
	Costa Rica	9.7	(0.5)	13.5	(0.7)	31.2	(0.8)	45.6	(1.1)	28.0	(0.8)	30.3	(0.7)	27.7	(0.8)	14.0	(0.6)	11.0	(0.5)	11.9	(0.5)	26.8	(0.8)	50.2	(1.0)
	Croatia	10.0	(0.5)	19.6	(0.7)	40.5	(1.0)	29.9	(1.1)	16.5	(0.5)	31.9	(0.6)	37.1	(0.7)	14.5	(0.6)	6.6	(0.4)	8.0	(0.5)	25.7	(0.7)	59.6	(0.9)
	Cyprus* Dominican Republic	19.9 31.7	(0.5)	36.8	(0.7)	36.5 28.1	(0.7)	6.8	(0.3)	25.7 42.7	(0.7)	36.9 28.5	(0.8)	30.4	(0.7)	7.0	(0.4)	9.7	(0.4)	15.8 16.6	(0.5)	26.5 28.4	(0.6)	47.9 29.9	(0.7)
	FYROM	14.6	(0.5)	23.4	(0.7)	36.7	(0.7)	25.3	(0.7)	21.7	(0.7)	27.7	(0.7)	35.9	(0.8)	14.7	(0.6)	12.8	(0.5)	14.6	(0.5)	33.2	(0.7)	39.3	(0.8)
	Georgia	23.2	(0.8)	22.1	(0.7)	33.5	(0.8)	21.2	(1.1)	33.7	(0.7)	29.6	(0.7)	30.1	(0.7)	6.7	(0.4)	17.8	(0.7)	14.0	(0.5)	34.5	(0.9)	33.7	(1.0)
	Hong Kong (China)	10.0	(0.5)	29.9	(0.9)	52.2	(1.0)	8.0	(0.7)	16.5	(0.7)	37.4	(0.9)	39.9	(0.9)	6.2	(0.5)	4.9	(0.4)	14.6	(0.7)	39.3	(1.1)	41.2	(1.4)
	Indonesia Jordan	17.5 23.5	(0.7)	21.5	(0.6)	49.8 26.1	(0.9)	20.6	(0.8)	31.2 43.9	(0.8)	24.8 31.3	(0.8)	37.4 17.3	(0.8)	6.6 7.6	(0.4)	10.9	(0.6)	12.4 26.2	(0.6)	45.3 26.0		31.4 26.3	(1.0)
	Kosovo	13.1	(0.6)	18.3	(0.6)	36.1	(0.8)	32.6	(0.8)	30.0	(0.9)	31.9	(0.9)	29.1	(0.8)	9.0		9.9	(0.6)	12.0	(0.6)	32.8	(0.8)		(0.8)
	Lebanon	35.1	(1.4)	34.1	(1.2)	22.7	(1.0)	8.2	(8.0)	39.5	(1.6)	31.4	(1.0)	24.0	(1.1)	5.1	(0.4)	18.5	(0.8)	24.6	(1.0)	35.6	(1.3)	21.4	(1.2)
	Lithuania	19.1	(0.6)	27.7	(0.8)	41.2	(0.7)	12.0	(0.6)	28.8	(0.6)	36.4	(0.7)	29.1	(0.8)	5.7	(0.3)	6.7	(0.4)	8.7	(0.4)	20.3	(0.7)		(0.9)
	Macao (China) Malta	6.8	(0.4)	20.7 34.6	(0.6)	61.9 43.5	(0.7)	10.6	(0.5)	14.3	(0.5)	33.5 41.1	(0.8)	44.1 25.1	(0.8)	8.0 6.9	(0.4)	2.7 4.9	(0.3)	6.6	(0.3)	36.0	(0.8)	54.7 55.0	(0.7)
	Moldova	27.3	(0.8)	27.5	(0.7)	38.3	(0.8)	6.9	(0.5)	34.5	(0.8)	27.6	(0.8)	31.9	(0.9)	6.0	(0.4)	10.7	(0.4)	10.8	(0.4)	41.3	(1.0)	37.2	(0.9)
	Montenegro	12.8	(0.4)	18.4	(0.6)	29.1	(0.7)	39.7	(0.7)	17.7	(0.5)	26.6	(0.7)	35.3	(0.7)	20.4	(0.5)	10.8	(0.5)	15.3	(0.5)	23.4	(0.6)	50.4	(0.7)
	Peru	30.0	(1.0)	29.1	(0.7)	28.4	(0.8)	12.5	(0.8)	38.0	(0.7)	32.7	(0.7)	23.4	(0.7)	5.9	(0.4)	20.4	(0.8)	18.7	(0.6)	33.6	(0.7)	27.4	(0.9)
	Qatar Romania	20.1 15.6	(0.4)	32.4 23.4	(0.6)	35.5 45.2	(0.5)	12.1 15.8	(0.3)	29.9 25.1	(0.5)	36.9 28.2	(0.5)	26.8 36.6	(0.4)	10.0	(0.2)	14.4	(0.4)	20.8 12.4	(0.4)	30.5	(0.4)	34.3 40.5	(0.5)
	Russia	17.5	(0.8)	34.0	(0.6)	41.7	(0.8)	6.8	(0.7)	30.1	(1.0)	39.1	(0.8)	27.7	(0.8)	3.1	(0.6)	11.4	(0.7)	18.7	(0.7)	38.6		31.3	(0.8)
	Singapore	16.7	(0.5)	32.8	(0.7)	41.7	(0.7)	8.8	(0.4)	18.9	(0.6)	41.4	(0.7)	33.5	(0.6)	6.1	(0.3)	4.1	(0.3)	9.3	(0.3)	31.6	(0.6)	54.9	(0.7)
	Chinese Taipei	4.3	(0.3)	8.9	(0.3)	49.4	(0.9)	37.4	(0.9)	11.0	(0.4)	23.6	(0.6)	50.3	(0.7)	15.1	(0.5)	4.1	(0.3)	6.4	(0.3)	30.3	(0.7)		(0.8)
	Thailand Trinidad and Tobago	11.5	(0.5)	24.3 33.9	(0.7)	56.1 33.2	(0.9)	8.2	(0.5)	18.7	(0.7)	30.5	(0.7)	44.5 25.8	(0.9)	6.3	(0.3)	8.2	(0.5)	14.7 15.4	(0.6)	53.1 32.9	(0.8)	24.1 42.9	(0.9)
	Tunisia	26.4	(0.7)	31.0	(0.8)	33.4	(0.7)	9.2	(0.6)	34.5	(0.8)	30.6	(0.9)	27.9	(0.8)	7.0	(0.4)	14.3	(0.6)	21.7	(0.6)	32.4	(0.8)	31.6	(0.7)
	United Arab Emirates	22.4	(0.6)	31.8	(0.6)	32.7	(0.6)	13.1		34.3	(0.6)	33.9	(0.6)	25.0	(0.4)	6.7	(0.3)	16.1	(0.4)	21.8	(0.6)	31.6		30.5	(0.8)
	Uruguay	13.9	(0.6)	30.9	(0.8)	41.8	(0.8)	13.4	(0.7)	19.4	(0.5)	34.4	(0.8)	35.9	(0.8)	10.4	(0.4)	7.0	(0.4)	9.9	(0.5)	28.4	(0.8)	54.6	(1.0)
	Viet Nam	22.9	(0.7)	22.9	(0.6)	44.5	(0.9)	9.7		29.8	(0.8)		(0.9)	35.8	(0.9)	3.9	(0.4)	5.3	(0.5)	5.3		34.7		54.7	(1.1)
1	Argentina**	13.4	(0.7)	20.5	(0.7)	39.5	(0.8)	26.6	(0.9)	21.2	(0.7)	28.7	(0.7)	32.5	(0.6)	17.5	(0.6)	8.0	(0.5)	11.4	(0.6)	25.8	(0.8)	54.9	(1.1)
	Kazakhstan** Malaysia**	35.9 28.2	(0.9)	35.6 31.6	(0.8)	24.3 36.1	(0.8)	4.2	(0.4)	48.8	(0.9)	36.1 31.0	(0.8)	13.3	(0.6)	1.8	(0.2)	27.2 7.4	(0.7)	28.1	(0.8)	30.1	(0.8)	14.6	(0.8)
_		120.2	(0.0)	101.0	(0.7)	J J J I	(0.0)		(0,-1)	10/17	(0.0)		(0.0)	, ,	(0.0)	J.1	(0.0)	7.77	(0.0)	1.1.0	(0.0)	100	(0.0)	1.0.2	(111)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** In Indian Action (1988) | StatLink ** Indian Action (1988) | StatLink



[Part 3/3]

Table II.2.26 Enquiry-based instruction in science lessons

Res	ults based on stude	ents'	repo	rts		Per	centa	e of s	tudent	s who	renori	ed tha	t the f	ollowi	ng thi	ngs ha	nnen i	n their	scien	ce less	ons				
					re is a c	class de	bate	50 01 3	uucii	1	he tea	cher cl	early e	xplain	s the re	elevano	e e				sked t	o do ar	inves	tigatio	n
			all	ln r	nost nost	ln s	ome sons	or h	ver ardly	_ In	of <bre>all</bre>	ln r	ence>	In s	ots to o	or h	ever ardly er		all		to tes	In so		or h	ever ardly ver
		%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
CD	Australia	5.6	(0.3)	16.4	(0.4)	38.4	(0.5)	39.7	(0.6)	22.6	(0.5)	35.3	(0.6)	31.2	(0.6)	10.9	(0.4)	9.6	(0.3)	27.4	(0.6)	46.2	(0.6)	16.7	(0.5)
OECD	Austria Belgium	8.6 9.0	(0.5)	18.7 19.6	(0.8)	34.7 36.4	(0.9)	38.0	(0.8)	15.8 12.9	(0.6)	28.5	(0.6)	33.3 37.0	(0.7)	22.4	(0.8)	6.5 5.0	(0.5)	12.7	(0.6)	27.2 32.2	(0.8)	53.6 51.8	(1.2)
	Canada	9.0	(0.4)	16.1	(0.4)	33.9	(0.6)	41.0	(0.8)	28.1	(0.5)	33.9	(0.5)	27.2	(0.5)	10.9	(0.4)	11.9	(0.4)	23.9	(0.5)	37.0	(0.6)	27.2	(0.7)
	Chile	8.2	(0.5)	11.0	(0.5)	32.5	(0.7)	48.4	(1.0)	26.7	(0.8)	28.2	(0.7)	32.9	(0.8)	12.2	(0.5)	10.8	(0.5)	15.7	(0.6)	43.1	(0.7)	30.4	(0.9)
	Czech Republic Denmark	7.0 9.4	(0.5)	14.2	(0.5)	38.4 42.7	(0.7)	40.3	(0.9)	17.2 18.4	(0.6)	31.4 39.5	(0.6)	37.5 34.3	(0.8)	7.7	(0.5)	9.0 6.9	(0.5)	19.0 24.9	(0.5)	40.6 39.2	(0.7)	31.5	(0.9)
	Estonia	7.8	(0.4)	22.7	(0.7)	48.2	(0.9)	21.3	(0.7)	19.6	(0.6)	37.2	(0.8)	34.1	(0.8)	9.1	(0.4)	4.3	(0.3)	10.3	(0.5)	39.9	(0.8)	45.5	(0.8)
	Finland	2.8	(0.2)	9.5	(0.6)	31.4	(0.7)	56.3	(1.0)	12.7	(0.5)	35.6	(0.8)	37.1	(0.7)	14.6	(0.5)	2.6	(0.2)	10.2	(0.4)	29.8	(0.7)	57.5	(0.9)
	France Germany	8.8 9.1	(0.4)	15.2 28.9	(0.5)	33.7	(0.7)	42.3	(0.9)	14.0	(0.5)	23.3	(0.7)	38.5 39.9	(0.6)	24.2	(0.7)	7.0	(0.3)	14.3	(0.5)	29.4 41.5	(0.7)	49.4	(0.9)
	Greece	12.5	(0.4)	17.1	(0.6)	35.5	(1.0)	34.8	(1.6)	19.4	(0.7)	28.0	(0.7)	36.8	(0.8)	15.8	(0.7)	10.9	(0.7)	17.4	(0.7)	34.0	(0.7)	37.8	(1.1)
	Hungary	8.0	(0.4)	18.1	(0.6)	33.4	(0.7)	40.5	(0.9)	22.8	(0.7)	32.8	(0.7)	29.3	(0.7)	15.1	(0.6)	9.3	(0.5)	16.7	(0.6)	34.5	(0.8)	39.4	(0.9)
	Iceland Ireland	8.4 3.6	(0.5)	19.2	(0.7)	40.9	(1.0)	31.5 55.8	(0.9)	22.1	(0.7)	33.3	(0.8)	30.9 32.6	(0.7)	13.7	(0.7)	8.4 7.3	(0.5)	17.8 21.8	(0.7)	42.1	(1.0)	31.7 26.7	(0.8)
	Israel	12.8	(0.6)	23.5	(0.8)	40.1	(0.8)	23.6	(0.8)	22.6	(0.7)	28.5	(0.6)	31.9	(0.7)	17.1	(0.6)	10.1	(0.7)	15.1	(0.5)	32.0	(0.8)	42.7	(1.0)
	Italy	7.4	(0.4)	16.5	(0.5)	41.3	(0.7)	34.8	(0.9)	13.1	(0.6)	26.2	(0.7)	39.5	(0.7)	21.2	(0.7)	4.8	(0.3)	9.3	(0.5)	31.3	(0.8)	54.6	(0.9)
	Japan Koroa	3.0	(0.3)	5.7 8.9	(0.4)	18.0 27.4	(0.7)	73.3 59.8	(1.0)	11.7	(0.5)	21.4	(0.6)	37.4 38.7	(0.7)	29.6 18.2	(0.9)	4.0	(0.3)	8.5	(0.5)	22.3	(0.7)	65.2 57.3	(1.1)
	Korea Latvia	6.5	(0.3)	17.9	(0.5)	43.2	(1.0)	32.4	(1.0)	23.1	(0.5)	36.4	(0.8)	31.8	(0.8)	8.8	(0.7)	7.5	(0.6)	8.7	(0.4)	46.7	(1.1)	25.4	(1.3)
	Luxembourg	11.1	(0.5)	22.3	(0.7)	38.3	(0.7)	28.3	(0.6)	19.5	(0.6)	29.5	(0.7)	33.4	(0.7)	17.5	(0.6)	10.2	(0.5)	17.8	(0.6)	37.3	(0.7)	34.7	(0.7)
	Mexico Netherlands	15.1	(0.7)	20.5	(0.6)	39.3 34.9	(0.8)	25.1 50.4	(0.8)	35.7 8.8	(0.8)	29.4 30.4	(0.7)	28.0	(0.7)	6.9	(0.4)	24.1 4.1	(0.8)	26.5 12.6	(0.6)	37.0 35.0	(0.7)	12.3	(0.6)
	New Zealand	6.1	(0.4)	15.3	(0.7)	34.6	(0.8)	44.0	(1.0)	22.3	(0.7)	34.9	(0.8)	31.4	(0.9)	11.4	(0.6)	9.2	(0.4)	27.3	(0.9)	47.0	(1.0)	16.6	(0.9)
	Norway	5.8	(0.5)	19.1	(0.6)	48.4	(0.8)	26.6	(0.8)	12.9	(0.7)	28.8	(0.7)	39.2	(0.7)	19.2	(0.7)	5.4	(0.4)	16.2	(0.6)	43.2	(0.8)	35.3	(1.0)
	Poland Portugal	7.7	(0.5)	16.4	(0.7)	40.8	(0.8)	35.1	(1.1)	16.2 28.7	(0.6)	30.9	(0.7)	37.2 31.1	(0.7)	15.7 8.2	(0.7)	5.8	(0.5)	11.2 16.4	(0.6)	35.7 39.3	(0.9)	47.3 32.5	(0.9)
	Slovak Republic	8.0	(0.5)	12.5	(0.5)	32.7	(0.8)	46.8	(1.1)	20.6	(0.7)	30.5	(0.7)	32.3	(0.7)	16.7	(0.6)	7.2	(0.5)	10.4	(0.5)	26.9	(0.8)	55.7	(1.0)
	Slovenia	13.2	(0.7)	27.5	(1.1)	38.5	(1.3)	20.8	(1.1)	17.1	(1.0)	29.5	(1.2)	36.3	(1.2)	17.0	(0.9)	9.3	(0.7)	18.8	(1.0)	37.6	(1.2)	34.3	(1.2)
	Spain Sweden	5.5 9.3	(0.3)	11.7 26.3	(0.5)	34.8 46.3	(0.7)	47.9 18.2	(0.9)	20.1	(0.7)	30.1 35.6	(0.6)	34.6	(0.7)	15.2	(0.7)	6.6 7.7	(0.4)	15.6 19.7	(0.6)	40.5 39.1	(0.8)	37.3 33.5	(1.0)
	Switzerland	13.3	(0.6)	27.3	(0.8)	38.1	(0.8)	21.3	(0.9)	17.8	(0.8)	30.5	(0.7)	34.4	(0.8)	17.3	(0.7)	8.2	(0.5)	19.3	(0.8)	35.1	(0.8)	37.4	(1.1)
	Turkey	20.6	(0.8)	23.1	(0.7)	34.0	(0.7)	22.2	(0.8)	26.6	(0.7)	28.8	(0.8)	31.9	(0.8)	12.7	(0.7)	18.2	(0.8)	18.8	(0.7)	32.8	(0.7)	30.1	(0.9)
	United Kingdom United States	4.4	(0.3)	10.2	(0.4)	32.7 32.5	(0.8)	52.7 38.3	(1.0)	18.3	(0.6)	29.7 30.0	(0.6)	34.9	(0.8)	17.1	(0.6)	7.5 17.0	(0.4)	22.2	(0.7)	50.9 36.7	(0.9)	19.4	(0.7)
	OECD average	8.6	(0.1)	17.7	(0.1)	36.9	(0.1)	36.9	(0.2)	19.3	(0.1)	30.6	(0.1)	34.4	(0.1)	15.7	(0.1)	8.5	(0.1)	17.3	(0.1)	37.1	(0.1)	37.1	(0.2)
	Albania	9.5	(0.6)	16.1	(0.6)	40.2	(0.8)	34.2	(1.0)	11.9	(0.7)	22.7	(0.7)	41.7	(0.9)	23.7	(0.9)	40.0	(1.1)	26.6	(0.9)	24.2	(0.7)	9.2	(0.5)
Partners	Algeria	17.4	(0.7)	20.7	(0.6)	33.6	(0.8)	28.4	(0.8)	40.9	(0.7)	23.8	(0.6)	23.7	(0.7)	11.6	(0.5)	30.9	(0.7)	25.6	(0.7)	26.7	(0.7)	16.8	(0.6)
Part	Brazil	11.7	(0.4)	17.1	(0.5)	33.3	(0.5)	37.8	(0.6)	30.0	(0.6)	31.4	(0.5)	28.7	(0.4)	9.9	(0.4)	15.4	(0.5)	25.1	(0.5)	40.4	(0.6)	19.0	(0.6)
_	B-S-J-G (China) Bulgaria	4.8	(0.4)	6.9	(0.4)	33.0 32.4	(1.0)	55.3 24.6	(1.2)	12.6 25.9	(0.6)	23.7 34.0	(0.6)	40.1	(0.7)	23.7	(0.8)	6.2	(0.5)	10.7	(0.5)	36.4	(0.8)	46.8 36.2	(1.2)
	CABA (Argentina)	7.3	(0.7)	19.5	(1.2)	43.4	(1.5)	29.9	(1.6)	22.0	(1.2)	30.5	(1.3)	33.8	(1.3)	13.6	(1.2)	8.4	(0.8)	24.6	(1.4)	41.0	(1.7)	26.0	(1.7)
	Colombia	13.6	(0.6)	19.0	(0.6)	39.1	(0.5)	28.3	(0.8)	34.0	(0.8)	30.5	(0.7)	28.7	(0.6)	6.8	(0.4)	21.1	(0.8)	27.5	(0.6)	36.7	(0.6)	14.7	(0.7)
	Costa Rica Croatia	7.1	(0.4)	9.4	(0.5)	25.5 40.3	(0.6)	58.0 35.0	(0.8)	37.3 18.6	(0.8)	28.8	(0.6)	24.6 36.3	(0.6)	9.3	(0.5)	12.8 7.7	(0.5)	16.9 12.0	(0.6)	35.1 37.5	(0.8)	35.2 42.8	(1.0)
	Cyprus*	19.9	(0.6)	29.9	(0.8)	34.8	(0.8)	15.3	(0.5)	22.4	(0.7)	34.0	(0.7)	33.9	(0.8)	9.8	(0.5)	13.5	(0.5)	22.8	(0.6)	39.1	(0.7)	24.7	(0.5)
	Dominican Republic	35.6	(1.3)	25.3	(0.9)	27.3	(1.0)	11.8	(0.8)	46.9	(1.1)	25.6	(0.8)	20.8	(0.8)	6.6	(0.5)	41.2	(1.1)	25.1	(0.7)	24.5	(0.8)	9.2	(0.6)
	FYROM Georgia	11.3	(0.5)	20.3	(0.7)	49.1	(0.7)	19.4	(0.7)	30.2	(0.8)	30.0	(0.7)	30.4	(0.7)	9.5	(0.4)	14.4	(0.5)	24.1	(0.6)	43.3 35.2	(0.7)	18.2	(0.6)
	Hong Kong (China)	6.0	(0.4)	16.6	(0.7)	37.6	(1.0)	39.7	(1.3)	13.8	(0.7)	34.2	(1.0)	43.1	(0.9)	7.1	(0.4)	8.2	(0.6)	25.8	(0.8)	48.5	(0.7)	17.5	(0.7)
	Indonesia	5.9	(0.5)	8.8	(0.5)	34.5	(0.9)	50.8		41.3	(0.8)	29.5	(0.7)	24.9	(0.7)	4.3	(0.3)	13.8	(0.7)		(0.6)	45.5	(0.9)	24.2	(1.0)
	Jordan Kosovo	24.9 12.3	(0.8)	28.6 16.5	(0.6)	29.8 42.0	(0.7)	16.7 29.2	(0.7)	46.6 35.4	(0.9)	29.9 26.2	(0.8)	17.5 26.9	(0.6)	6.0	(0.4)	22.9	(0.7)	29.8 23.3	(0.7)	27.8 37.9	(0.7)	19.5 16.8	
	Lebanon	16.0	(1.0)	26.3	(0.9)	38.4	(1.2)	19.2	(1.3)	39.1	(1.2)	30.8	(1.0)	23.4	(0.8)	6.7	(0.5)	17.8	(1.0)	26.3	(0.7)	36.1	(1.1)	19.8	(1.4)
	Lithuania	8.3	(0.4)	11.3	(0.5)	28.8	(0.7)	51.6	(0.9)	24.6	(0.7)	31.5	(0.7)	32.6	(0.8)	11.3	(0.5)	11.2	(0.4)	16.9	(0.6)	39.3	(0.8)	32.6	(0.9)
	Macao (China) Malta	2.8	(0.3)	7.0	(0.4)	40.1 37.2	(0.6)	50.0	(0.7)	10.9	(0.5)	29.9 35.3	(0.8)	49.0	(0.9)	10.1	(0.5)	3.2 6.6	(0.3)	9.3	(0.4)	42.2	(0.7)	45.3 31.8	(0.8)
	Moldova	11.5	(0.6)	19.7	(0.7)	49.6	(0.9)	19.2	(0.7)	46.9	(0.9)	26.9	(0.8)	22.6	(0.8)	3.5	(0.3)	18.6	(0.7)	24.9	(0.7)	46.1	(0.8)	10.4	(0.5)
	Montenegro	11.9	(0.5)	19.6	(0.6)	34.5	(0.7)	34.0	(0.7)	19.6	(0.6)	26.1	(0.7)	34.0	(0.7)	20.3	(0.7)	13.9	(0.5)	19.4	(0.6)	31.1	(0.7)	35.6	
	Peru Qatar	21.0 16.8	(0.6)	22.3	(0.6)	38.3	(0.6)	18.4	(0.6)	37.4	(0.7)	31.4 33.9	(0.6)	25.2	(0.7)	6.0 8.6	(0.4)	26.9 17.6	(0.7)	29.1 24.7	(0.6)	34.8	(0.7)	9.2	(0.5)
	Romania	10.8	(0.4)	15.6	(0.7)	43.6	(0.9)	30.0	(0.4)	24.7	(0.8)	26.4	(0.7)	36.9	(0.9)	12.0	(0.5)	13.0	(0.4)	18.2	(0.6)	42.4	(0.9)	26.4	
	Russia	15.4	(0.6)	25.3	(0.8)	41.5	(0.7)	17.8	(0.7)	31.7	(1.0)	35.3	(0.7)	27.2	(0.8)	5.8	(0.4)	12.6	(0.6)	20.5	(1.0)	39.7	(0.9)	27.2	(1.0)
	Singapore Chinese Taipei	4.2	(0.2)	10.9	(0.5)	33.2 35.3	(0.7)	51.7 51.7	(0.6)	14.5 12.5	(0.5)	32.8 22.6	(0.6)	38.9 47.4	(0.7)	13.9 17.6	(0.5)	6.0 4.9	(0.3)	19.0 9.1	(0.7)	43.6	(0.7)	31.4 45.6	(0.7)
	Thailand	11.8	(0.5)	22.6	(0.7)	55.6	(0.8)	10.0	(0.5)	7.3	(0.4)	16.9	(0.6)	54.3	(0.7)	21.5	(0.6)	9.8	(0.5)	20.6	(0.7)	58.1	(0.9)	11.5	(0.5)
	Trinidad and Tobago	6.6	(0.4)	14.4	(0.6)	33.4	(0.8)	45.6	(0.8)	26.8	(0.8)	27.9	(0.8)	31.8		13.5	(0.5)	14.2	(0.6)	25.4	(0.7)	37.1	(0.8)	23.2	(0.6)
	Tunisia United Arab Emirates	21.7 15.9	(0.7)	28.3	(0.8)	38.4	(0.8)	11.6 30.4	(0.6)	33.5 32.7	(0.8)	30.2 32.1	(0.6)	28.5	(0.7)	7.8	(0.5)	17.4 19.8	(0.6)	22.4 25.9	(0.6)	36.0 33.8	(0.9)	24.3	(0.7)
	Uruguay	7.1	(0.3)	11.8	(0.5)	37.7	(0.7)	43.4	(8.0)	14.0	(0.5)	23.5	(0.7)	40.6	(0.7)	21.8	(0.4)	10.6	(0.5)	20.9	(0.6)	44.9	(0.8)	23.6	(0.7)
_	Viet Nam	11.8	(0.7)	13.3	(0.5)	52.5	(0.8)	22.3	(0.9)	34.0	(0.8)	32.5	(0.7)	29.6	(0.8)	3.9	(0.3)	5.6	(0.5)	6.4	(0.4)	45.8	(1.1)	42.2	(1.2)
	Argentina**	15.1	(0.7)	21.2	(0.6)	37.9	(0.8)	25.8	(0.9)	29.5	(0.8)	28.6	(0.6)	29.6	(0.7)	12.3	(0.5)	17.8	(0.7)	26.6	(0.6)		(0.7)	19.5	(0.6)
	Kazakhstan** Malaysia**	35.3	(1.0)	38.3	(0.7)	23.4	(0.8)	3.0	(0.3)	45.6 34.8	(0.9)	36.7 30.1	(0.9)	15.5 31.5	(0.6)	2.2	(0.2)	24.1	(0.7)	29.2 26.5	(0.8)	36.1	(0.9)	10.6	(0.6)
_	,	, ,,,,	(0.0)	,	(0.0)		(0.7)	,	(0.0)	,	(0.0)		14.11		(0.0)	, 5.0	(0.1)		(3.0)	, _ 0.0	14.11		(0.0)		(0.0)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/3]

Table II.2.27 Index of enquiry-based instruction, by student and school characteristics

		All stu	ıdents					By sch	ool socio-	economic	profile ¹			
	Ave	rage		ability s index	Bottom	quarter	Second	quarter	Third	quarter	Тор q	uarter		bottom arter
	Mean index	S.E.	S.D.	S.E.	Mean index	S.E.	Mean index	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.E.
Australia	0.18	(0.01)	0.84	(0.01)	0.20	(0.03)	0.12	(0.03)	0.17	(0.02)	0.22	(0.02)	0.02	(0.0)
Austria	-0.28	(0.03)	1.09 0.98	(0.02)	-0.26	(0.05)	-0.31	(0.10)	-0.35	(0.09)	-0.20	(0.05)	0.06	(0.0)
Belgium Canada	-0.21 0.27	(0.02)	0.98	(0.01)	-0.12 0.28	(0.05)	-0.28 0.27	(0.04)	-0.16 0.31	(0.04)	-0.25 0.24	(0.03)	-0.14 -0.05	(0.0)
Chile	0.10	(0.01)	0.99	(0.02)	0.25	(0.05)	0.11	(0.05)	0.09	(0.04)	-0.02	(0.04)	-0.27	(0.0)
Czech Republic	-0.05	(0.02)	0.94	(0.02)	-0.04	(0.05)	-0.02	(0.04)	-0.08	(0.05)	-0.04	(0.04)	0.01	(0.0)
Denmark	0.36	(0.02)	0.74	(0.02)	0.28	(0.04)	0.37	(0.03)	0.37	(0.04)	0.40	(0.03)	0.11	(0.0)
Estonia	-0.07	(0.02)	0.83	(0.02)	-0.07	(0.04)	-0.01	(0.05)	-0.06	(0.03)	-0.14	(0.03)	-0.06	(0.0)
Finland	-0.30	(0.02)	0.86	(0.02)	-0.40	(0.03)	-0.37	(0.04)	-0.27	(0.04)	-0.18	(0.04)	0.22	(0.0)
France	0.15	(0.02)	0.90	(0.01)	0.06	(0.05)	0.16	(0.03)	0.16	(0.04)	0.21	(0.03)	0.15	(0.0)
Germany Greece	-0.07	(0.02)	0.88 1.04	(0.02)	-0.06 0.17	(0.04)	0.03 -0.07	(0.04) (0.05)	0.09 -0.20	(0.03)	0.13 -0.17	(0.03)	0.19 -0.34	(0.0)
Hungary	-0.07	(0.03)	1.04	(0.02)	-0.12	(0.07)	-0.30	(0.05)	-0.26	(0.04)	-0.17	(0.03)	-0.05	(0.0)
Iceland	-0.15	(0.02)	1.07	(0.02)	-0.24	(0.04)	-0.14	(0.04)	-0.18	(0.04)	-0.02	(0.04)	0.22	(0.0)
Ireland	0.01	(0.02)	0.80	(0.01)	0.03	(0.04)	-0.03	(0.03)	0.02	(0.05)	0.02	(0.03)	-0.01	(0.0)
Israel	0.05	(0.03)	1.12	(0.02)	0.28	(0.08)	0.02	(0.07)	-0.02	(0.07)	-0.09	(0.05)	-0.37	(0.0)
Italy	-0.20	(0.02)	0.92	(0.01)	0.01	(0.05)	-0.18	(0.04)	-0.28	(0.05)	-0.32	(0.03)	-0.33	(0.0)
Japan	-0.64	(0.03)	1.09	(0.02)	-0.79	(80.0)	-0.66	(0.07)	-0.53	(0.06)	-0.58	(0.06)	0.21	(0.1
Korea	-0.61	(0.03)	1.16	(0.02)	-0.60	(0.07)	-0.51	(0.07)	-0.74	(0.09)	-0.61	(0.08)	-0.01	(0.1
Latvia	0.13	(0.01)	0.76	(0.02)	0.20	(0.04)	0.13	(0.04)	0.11	(0.03)	0.08	(0.03)	-0.13	(0.0)
Luxembourg	0.12	(0.01)	1.02	(0.02)	0.15	(0.03)	0.22	(0.03)	0.05	(0.03)	0.08	(0.02)	-0.07	(0.0)
Mexico	0.51	(0.02)	0.97	(0.02)	0.59	(0.05)	0.59	(0.05)	0.42	(0.04)	0.43	(0.05)	-0.16	(0.0)
Netherlands New Zealand	-0.25 0.16	(0.02)	0.95 0.86	(0.02)	-0.26 0.29	(0.06)	-0.26 0.15	(0.04)	-0.29 0.14	(0.04)	-0.19 0.08	(0.04)	0.07 -0.21	(0.0)
Norway	-0.03	(0.02)	0.86	(0.02)	-0.03	(0.05)	-0.05	(0.05)	0.14	(0.03)	-0.02	(0.03)	0.02	(0.0
Poland	-0.07	(0.02)	0.95	(0.02)	0.04	(0.05)	-0.03	(0.05)	-0.10	(0.04)	-0.22	(0.05)	-0.26	(0.0
Portugal	0.32	(0.02)	1.02	(0.02)	0.38	(0.04)	0.30	(0.04)	0.29	(0.06)	0.29	(0.05)	-0.09	(0.0
Slovak Republic	-0.24	(0.03)	1.11	(0.02)	-0.11	(0.07)	-0.27	(0.05)	-0.34	(0.07)	-0.21	(0.05)	-0.10	(0.0
Slovenia	0.20	(0.02)	1.03	(0.02)	0.24	(0.06)	0.19	(0.05)	0.07	(0.04)	0.29	(0.04)	0.04	(0.0
Spain	-0.25	(0.02)	0.95	(0.02)	-0.26	(0.04)	-0.21	(0.04)	-0.25	(0.06)	-0.28	(0.05)	-0.02	(0.0
Sweden	0.31	(0.02)	0.97	(0.02)	0.24	(0.05)	0.33	(0.05)	0.28	(0.05)	0.37	(0.06)	0.13	(0.0
Switzerland	0.15	(0.02)	0.95	(0.02)	0.21	(0.05)	0.15	(0.05)	0.12	(0.06)	0.13	(0.03)	-0.07	(0.0
Turkey	0.32	(0.02)	1.17	(0.02)	0.45	(0.06)	0.44	(0.07)	0.22	(0.06)	0.19	(0.04)	-0.26	(0.0
United Kingdom	-0.01	(0.01)	0.84	(0.01)	0.00	(0.04)	0.04	(0.04)	-0.06	(0.03)	0.00	(0.03)	0.00	(0.0)
United States	0.34	(0.03)	1.04	(0.02)	0.48	(0.06)	0.31	(0.04)	0.32	(0.05)	0.25	(0.04)	-0.23	(0.0)
OECD average	0.00	(0.00)	0.96	(0.00)	0.04	(0.01)	0.01	(0.01)	-0.03	(0.01)	-0.01	(0.01)	-0.05	(0.0)
Albania	0.45	(0.02)	0.67	(0.01)	0.40	(0.03)	0.40	(0.03)	0.51	(0.05)	0.50	(0.03)	0.10	(0.0)
Algeria	0.57	(0.01)	0.84	(0.02)	0.56	(0.03)	0.64	(0.04)	0.59	(0.03)	0.49	(0.04)	-0.07	(0.0)
Brazil	0.04	(0.01)	1.04	(0.01)	0.14	(0.04)	0.01	(0.03)	-0.03	(0.03)	0.06	(0.03)	-0.08	(0.0)
B-S-J-G (China)	-0.28	(0.03)	1.10	(0.02)	-0.55	(0.06)	-0.35	(0.08)	-0.16	(0.08)	-0.08	(0.06)	0.47	(0.0)
Bulgaria CABA (Argentina)	-0.19	(0.03)	1.11 0.77	(0.02)	0.55 -0.12	(0.07)	0.29 -0.11	(0.06)	-0.03	(0.07)	-0.05 -0.16	(0.04)	-0.60 -0.04	(0.0
Colombia	0.24	(0.04)	0.90	(0.03)	0.23	(0.10)	0.27	(0.04)	0.25	(0.04)	0.19	(0.04)	-0.04	(0.0
Costa Rica	-0.11	(0.02)	1.03	(0.02)	-0.09	(0.05)	-0.04	(0.04)	-0.18	(0.05)	-0.14	(0.05)	-0.04	(0.0
Croatia	-0.19	(0.02)	1.08	(0.02)	-0.09	(0.05)	-0.15	(0.05)	-0.28	(0.05)	-0.25	(0.04)	-0.16	(0.0
Cyprus*	0.43	(0.02)	1.00	(0.02)	0.57	(0.03)	0.43	(0.03)	0.39	(0.03)	0.32	(0.03)	-0.25	(0.0
Dominican Republic	0.78	(0.03)	0.95	(0.02)	0.85	(0.07)	0.81	(0.05)	0.82	(0.04)	0.67	(0.06)	-0.19	(0.0
FYROM	0.18	(0.02)	0.94	(0.02)	0.32	(0.03)	0.17	(0.03)	0.16	(0.03)	0.09	(0.02)	-0.22	(0.0
Georgia	0.52	(0.02)	0.84	(0.01)	0.67	(0.04)	0.59	(0.03)	0.48	(0.04)	0.35	(0.04)	-0.31	(0.0
Hong Kong (China)	0.10	(0.02)	0.98	(0.03)	0.12	(0.04)	0.15	(0.04)	0.09	(0.05)	0.04	(0.05)	-0.07	(0.0
Indonesia	0.26	(0.02)	0.72	(0.01)	0.24	(0.04)	0.21	(0.04)	0.27	(0.03)	0.31	(0.03)	0.07	(0.0
Jordan	0.62	(0.02)	1.01	(0.02)	0.60	(0.05)	0.72	(0.04)	0.55	(0.04)	0.60	(0.05)	0.01	(0.0
Kosovo	0.35	(0.01)	0.79	(0.02)	0.40	(0.04)	0.35	(0.03)	0.32	(0.03)	0.31	(0.03)	-0.08	(0.0
Lebanon Lithuania	0.61	(0.02)	0.73 0.97	(0.02)	0.65	(0.07)	0.66	(0.05)	0.65	(0.04)	0.49	(0.04)	-0.16 -0.12	0.0)
Macao (China)	-0.16	(0.01)	0.97	(0.02)	-0.22	(0.03)	-0.14	(0.03)	-0.14	(0.04)	-0.14	(0.03)	0.08	(0.0
Malta	0.13	(0.01)	0.79	(0.02)	0.08	(0.03)	0.06	(0.02)	0.15	(0.02)	0.22	(0.03)	0.08	(0.0
Moldova	0.51	(0.01)	0.63	(0.01)	0.53	(0.03)	0.53	(0.03)	0.50	(0.03)	0.50	(0.02)	-0.03	(0.0
Montenegro	-0.12	(0.02)	1.34	(0.02)	0.25	(0.04)	0.03	(0.04)	-0.11	(0.04)	-0.57	(0.04)	-0.83	(0.0
Peru	0.69	(0.02)	0.97	(0.01)	0.86	(0.04)	0.79	(0.04)	0.69	(0.04)	0.48	(0.05)	-0.38	(0.0
Qatar	0.47	(0.01)	1.13	(0.01)	0.65	(0.03)	0.47	(0.02)	0.58	(0.02)	0.21	(0.02)	-0.44	(0.0
Romania	0.19	(0.02)	0.75	(0.02)	0.22	(0.04)	0.21	(0.05)	0.18	(0.05)	0.15	(0.03)	-0.07	(0.0
Russia	0.50	(0.02)	0.93	(0.01)	0.62	(0.04)	0.48	(0.05)	0.49	(0.05)	0.40	(0.05)	-0.22	(0.0
Singapore	0.01	(0.01)	0.85	(0.01)	-0.08	(0.02)	-0.10	(0.03)	0.03	(0.03)	0.17	(0.02)	0.24	0.0)
Chinese Taipei	-0.45	(0.02)	1.11	(0.01)	-0.46	(0.04)	-0.45	(0.04)	-0.48	(0.04)	-0.42	(0.04)	0.05	(0.0
Thailand	0.13	(0.02)	0.91	(0.02)	0.20	(0.03)	0.21	(0.04)	0.10	(0.04)	0.04	(0.03)	-0.15	(0.0)
Trinidad and Tobago Tunisia	0.20	(0.01)	0.88	(0.02)	0.18	(0.03)	0.19	(0.03)	0.21	(0.03)	0.20	(0.02)	0.02 -0.16	(0.0)
United Arab Emirates	0.55	(0.02)	1.13	(0.02)	0.58	(0.03)	0.60	(0.03)	0.55	(0.04)	0.41	(0.04)	-0.16	(0.0)
Uruguav	0.46	(0.02)	0.99	(0.01)	0.03	(0.03)	0.08	(0.04)	-0.05	(0.04)	-0.04	(0.04)	-0.40	(0.0
Viet Nam	0.20	(0.01)	0.68	(0.02)	0.10	(0.04)	0.15	(0.04)	0.20	(0.04)	0.16	(0.04)	-0.13	(0.0
Argentina** Kazakhstan**	0.10 0.98	(0.02)	0.92	(0.02)	0.16	(0.06)	0.09	(0.05)	0.08	(0.04)	0.06	(0.05)	-0.10	(0.0
BAZAKUS(AD***	1 0.98	(0.02)	0.79	(0.02)	0.99	(0.04)	0.96	(0.04)	0.97	(0.04)	1.00	(0.05)	0.02	(0.0

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

* Coverage is too small to ensure comparability (see Annex A4).

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Table II.2.27 Index of enquiry-based instruction, by student and school characteristics

Nes	ults based on stude	iiis re	ports	В	y schoo	l locatio	on				By type of sch	ool			E	By educa	ation lev	vel	
			l area		wn										wer		per		
		(fewe	illage er than people)		000 0 000 ple)	(over 1 peo	000 000		ity – I area	Public	Private		ate – blic	educ	ndary cation ED 2)	educ	ndary cation ED 3)		ED 3 - ED 2
		Mean index	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.E.	Mean index S.E.	Mean index S.E.	Dif.	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.E.
Q	Australia	0.18	(0.07)	0.17	(0.02)	0.19	(0.02)	0.01	(0.07)	0.18 (0.02)	0.20 (0.02)	0.03	(0.03)	0.17	(0.01)	0.26	(0.03)	0.09	(0.03)
OECD	Austria	-0.28	(0.19)	-0.30	(0.03)	-0.25	(0.05)	0.03	(0.20)	-0.30 (0.03)	-0.20 (0.09)	0.10	(0.09)	-0.09	(0.15)	-0.29	(0.03)	-0.20	(0.15)
0	Belgium Canada	0.29	(0.09)	-0.23 0.28	(0.02)	-0.17 0.27	(0.04)	-0.02	(0.09)	0.28 (0.02)	0.18 (0.05)	-0.11	(0.05)	0.16	(0.07)	0.23	(0.02)	-0.39 0.01	(0.07)
	Chile	-0.01	(0.18)	0.21	(0.04)	0.05	(0.02)	0.06	(0.18)	0.16 (0.04)	0.07 (0.03)	-0.09	(0.05)	0.52	(0.12)	0.08	(0.02)	-0.44	(0.12)
	Czech Republic	0.04	(0.08)	-0.03	(0.02)	-0.13	(0.03)	-0.17	(0.09)	-0.04 (0.02)	-0.10 (0.06)	-0.06	(0.06)	0.02	(0.03)	-0.13	(0.03)	-0.15	(0.04)
	Denmark	0.36	(0.04)	0.34	(0.02)	0.39	(0.03)	0.04	(0.05)	0.33 (0.02)	0.43 (0.04)	0.10	(0.04)	0.35	(0.02)	С	С	С	С
	Estonia	-0.06	(0.05)	-0.04	(0.02)	-0.13	(0.02)	-0.07	(0.05)	-0.07 (0.02)	0.07 (0.08)	0.15	(0.09)	-0.07	(0.02)		(0.11)	-0.04	
	Finland France	0.39	(0.07)	-0.32 0.15	(0.02)	0.14	(0.03)	0.16	(0.07)	-0.31 (0.02) 0.15 (0.02)	-0.21 (0.07) 0.15 (0.04)	0.10	(0.08)	-0.30 0.15	(0.02)	0.16	(0.02)	0.01	(0.05)
	Germany	0.09	(0.06)	0.04	(0.02)	0.10	(0.04)	0.01	(0.07)	0.05 (0.02)	0.11 (0.07)	0.06	(0.07)	0.06	(0.02)	0.03	(0.08)	-0.03	(0.07)
	Greece	0.19	(0.12)	-0.07	(0.04)	-0.14	(0.04)	-0.33	(0.12)	-0.08 (0.03)	0.08 (0.08)	0.16	(0.08)	0.52	(0.12)	-0.10	(0.03)	-0.62	(0.13)
	Hungary	0.00	(0.15)	-0.23	(0.02)	-0.22	(0.03)	-0.22	(0.15)	-0.24 (0.02)	-0.10 (0.05)	0.14	(0.05)	0.09	(0.07)	-0.25	(0.02)	-0.34	(0.07)
	Iceland	-0.13	(0.04)		(0.03)	-0.14	(0.04)	-0.01	(0.06)	-0.15 (0.02)	C C	C 0.03	(O, O, 1)	-0.15	(0.02)	m	(0, 02)	m	(O, O2)
	Ireland Israel	-0.06 0.15	(0.04)	0.02	(0.03)	-0.14	(0.03)	-0.29	(0.05)	0.03 (0.03) m m	-0.01 (0.02) m m	-0.03 m	(0.04) m	0.02	(0.02)	0.01	(0.03)	-0.03 - 0.21	(0.03)
	Italy	0.13	(0.11)	-0.21	(0.04)	-0.24	(0.03)	-0.26		-0.22 (0.02)		0.08	(0.08)	0.23	(0.03)	-0.20	(0.03)	-0.65	(0.03)
	Japan	С	С	-0.59	(0.07)	-0.66	(0.04)	С	С	-0.58 (0.04)	-0.76 (0.06)	-0.19	(0.07)	m	m	-0.64	(0.03)	m	m
	Korea	С	C	-0.64	(0.07)	-0.60	(0.03)	С	C	-0.57 (0.03)		-0.12	(0.06)	-0.05	(0.07)	-0.67	(0.03)		(0.07)
	Latvia	0.23	(0.05)	0.13	(0.02)	0.07	(0.02)		(0.05)	0.13 (0.01)	0.05 (0.19)	-0.08	(0.18)	0.13	(0.02)	0.10	(0.06)	-0.03	(0.06)
	Luxembourg Mexico	0.60	(0.05)	0.13	(0.02)	0.11	(0.02)	-0.17	(0.06)	0.11 (0.01)	0.16 (0.03)	0.05 -0.10	(0.03)	0.16	(0.02)	0.07	(0.02)	-0.10 -0.19	(0.03)
	Netherlands	С.00	(0.03)	-0.27	(0.02)	-0.22	(0.06)	-0.17 C	(0.00) C	-0.23 (0.03)	-0.29 (0.03)	-0.05	(0.05)	-0.27	(0.03)	-0.21	(0.03)	0.06	(0.03)
	New Zealand	0.34	(0.05)	0.19	(0.03)	0.12	(0.02)	-0.22		0.14 (0.02)	0.20 (0.06)	0.06	(0.06)	0.22	(0.06)	0.16	(0.02)		(0.06)
	Norway	-0.05	(0.05)	-0.03	(0.03)	0.01	(0.05)	0.06		-0.03 (0.02)	0.15 (0.11)	0.18	(0.10)	-0.02	(0.02)	С	С	С	C
	Poland	0.05	(0.04)	-0.07	(0.04)	-0.24	(0.05)	-0.29	(0.06)	-0.07 (0.02)	-0.31 (0.09)	-0.24	(0.10)	-0.08	(0.02)	C	C (0, 02)	C	C
	Portugal Slovak Republic	0.54	(0.10)	-0.26	(0.02)	0.35	(0.06)	-0.19 - 0.48	(0.11)	0.32 (0.02)	0.47 (0.14)	-0.02	(0.14) (0.06)	-0.05	(0.03)	0.28	(0.03)	-0.08	(0.04)
	Slovenia	0.48	(0.12)	0.21	(0.03)	0.15	(0.04)		(0.12)	0.20 (0.02)	-0.20 (0.00)	-0.22	(0.17)	0.32	(0.12)	0.19	(0.02)		(0.03)
	Spain	-0.19	(0.11)	-0.22	(0.03)	-0.29	(0.03)	-0.10	(0.11)	-0.26 (0.03)	-0.22 (0.03)	0.04	(0.04)	-0.25	(0.02)	С	C	С	C
	Sweden	0.35	(0.06)	0.31	(0.03)	0.28	(0.05)		(0.08)	0.31 (0.02)		0.01	(0.06)	0.31	(0.02)	0.23	(0.17)	-0.08	(0.17)
	Switzerland	0.09	(0.10)	0.15	(0.03)	0.19	(0.05)	0.10		0.15 (0.02)	0.19 (0.11)	0.04	(0.11)	0.20	(0.02)	-0.04	(0.04)	-0.24	(0.05)
	Turkey United Kingdom	-0.03	(0.06)	-0.03	(0.04)	0.33	(0.04)	0.04	(0.07)	0.30 (0.02)	0.56 (0.23)	0.26	(0.23)	0.60	(0.20)	-0.01	(0.03)	-0.29 - 0.30	(0.21)
	United States	0.30	(0.06)		(0.02)	0.39	(0.05)	0.09	(0.07)	0.35 (0.03)	0.17 (0.08)	-0.17	(0.08)		(0.07)	0.32	(0.03)		(0.13)
	OECD average	0.11	(0.02)	0.01	(0.01)	-0.02	(0.01)			0.00 (0.00)	0.02 (0.02)	0.01	(0.02)		(0.01)	-0.01	(0.01)		(0.02)
-2	Albania	0.45	(0.03)	0.48	(0.02)	0.41	(0.03)	-0.04	(0.05)	0.46 (0.02)	0.40 (0.06)	-0.06	(0.06)	0.47	(0.03)	0.44	(0.02)	-0.04	(0.03)
Partners	Algeria	0.59	(0.04)	0.60	(0.02)	0.47	(0.04)	-0.11	(0.05)	0.57 (0.01)	с с	С	C	0.59	(0.02)	0.49	(0.02)	-0.11	(0.03)
Par	Brazil	0.12	(0.07)	0.08	(0.02)	-0.02	(0.03)		(0.08)	0.02 (0.02)	0.07 (0.05)	0.05 -0.07	(0.05)	0.33	(0.03)	-0.01	(0.02)		(0.04)
	B-S-J-G (China) Bulgaria	-0.53 0.66	(0.07)	-0.29 0.30	(0.04)	-0.21	(0.05)	-0.66		-0.27 (0.03) 0.18 (0.03)	C C	-0.07	(0.13) c	-0.25 0.46	(0.04)		(0.03)	-0.09 -0.28	(0.05)
	CABA (Argentina)	m	(0.10) m	C.50	(0.03) C	-0.10	(0.04)	m	(0.17)	-0.09 (0.05)	-0.12 (0.05)	-0.03	(0.08)	-0.10	(0.04)	-0.11	(0.11)	-0.01	(0.11)
	Colombia	0.27	(0.07)	0.23	(0.03)	0.24	(0.03)	-0.02	(0.07)	0.24 (0.02)	0.28 (0.05)	0.04	(0.06)	0.30	(0.03)	0.19	(0.02)	-0.11	(0.03)
	Costa Rica	-0.07	(0.05)	-0.14	(0.03)	-0.07	(0.04)	0.00	(0.07)	-0.10 (0.02)	-0.18 (0.06)	-0.07	(0.06)	0.01	(0.03)	-0.23	(0.02)	-0.23	(0.04)
	Croatia	0.43	(0.05)	-0.15 0.46	(0.02)	-0.26 0.36	(0.03)	-0.07	(O, O6)	-0.20 (0.02) 0.44 (0.02)	-0.04 (0.05)	0.16 -0.11	(0.06)	0.53	(0.05)	0.19	(0.02)	-0.11	(0.05)
	Cyprus* Dominican Republic	0.43	(0.03)	0.40	(0.02)	0.70	(0.05)	-0.07	(0.06)	0.82 (0.03)	0.33 (0.04)	-0.11	(0.04)	0.93	(0.03)	0.42	(0.01)	-0.11	(0.03)
	FYROM	0.45	(0.09)	0.18	(0.02)	0.15	(0.02)	-0.30	(0.09)	0.17 (0.02)	0.50 (0.05)	0.33	(0.06)	С	C	0.18	(0.02)	С	C
	Georgia	0.67	(0.04)	0.59	(0.03)	0.37	(0.03)	-0.30	(0.05)	0.51 (0.02)	0.71 (0.08)	0.19	(0.08)	0.65	(0.03)	0.49	(0.02)	-0.16	
	Hong Kong (China)	m	(0, 03)	m	(0, 02)	0.10	(0.02)	m	(O, OE)	0.07 (0.08)	0.10 (0.02)	0.03	(0.08)	0.19	(0.03)	0.04	(0.03)	-0.15	(0.04)
	Indonesia Iordan	0.24	(0.03)	0.25	(0.02)	0.29	(0.03)	-0.05	(0.05)	0.26 (0.02)	0.25 (0.03)	-0.01 0.07	(0.04)	0.25	(0.02)	0.26 m	(0.02) m	0.00 m	(0.03) m
	Kosovo		(0.05)		(0.01)		(0.03)		(0.06)	0.34 (0.01)			(0.05)		(0.03)		(0.02)		(0.03)
	Lebanon	0.66	(0.05)	0.62	(0.03)	0.54	(0.05)	-0.12	(0.07)	0.63 (0.04)	0.59 (0.03)	-0.04	(0.05)	0.72	(0.03)	0.57	(0.03)		(0.04)
	Lithuania		(0.03)		(0.02)		(0.02)		(0.04)		0.10 (0.07)		(0.08)		(0.01)	C	C	С	C
	Macao (China) Malta	0.19	(0.04)	0.11	(0.01)		(0.01)	C	C	0.06 (0.02)		0.15	(O, O2)		(0.02)	0.13	(0.02)	-0.03	(0.02)
	Moldova		(0.04)		(0.01)	0.43	m (0.02)	-0.10	m (0.03)	0.52 (0.01)	C C	0.13 C	(0.03)	0.52	(0.01)		(0.01)	-0.02	(0.03)
	Montenegro	С	C		(0.02)	-0.27	(0.03)	С	C	-0.12 (0.02)	СС	С	С		(0.17)				(0.17)
	Peru	0.76		0.71	(0.03)	0.51	(0.06)	-0.26		0.81 (0.02)	0.46 (0.04)	-0.34	(0.05)		(0.04)	0.65	(0.02)	-0.21	(0.04)
	Qatar	0.58	(0.05)		(0.02)	0.44	(0.02)		(0.05)	0.67 (0.02)	0.24 (0.02)	-0.43	(0.02)		(0.03)	0.43	(0.01)		(0.03)
	Romania Russia		(0.06) (0.04)		(0.02) (0.03)	0.12	(0.03)		(0.07)	0.19 (0.02)	C C	C C	C		(0.02) (0.02)	0.55	m (0.06)	0.06	m (0.06)
	Singapore	m	(0.04) m	m	(0.03)	0.01	(0.01)	m	(0.03) m	-0.01 (0.01)	0.21 (0.07)	0.23	(0.07)		(0.10)	0.00	(0.01)	-0.55	(0.10)
	Chinese Taipei	С	С	-0.42	(0.03)	-0.48	(0.02)	С	С	-0.38 (0.02)	-0.60 (0.03)	-0.21	(0.04)	-0.28	(0.02)	-0.56	(0.02)	-0.28	(0.04)
	Thailand	0.29	(0.05)		(0.02)	0.02	(0.04)	-0.27	(0.06)	0.15 (0.02)	0.06 (0.05)	-0.08	(0.06)		(0.03)		(0.02)		(0.03)
	Trinidad and Tobago Tunisia	0.20			(0.02)	0.52	m (0.04)	-0.03	m (0.06)	0.20 (0.01)	0.18 (0.05) 0.76 (0.29)	-0.02 0.22			(0.02)	0.21	(0.02)		(0.03)
	United Arab Emirates		(0.03)		(0.02)	0.32	(0.04)		(0.06)	0.65 (0.03)			(0.24)		(0.05)		(0.02)		(0.03)
	Uruguay	0.16	(0.10)	0.05	(0.02)	-0.05	(0.03)	-0.21	(0.10)	0.02 (0.02)	-0.03 (0.03)	-0.05	(0.03)	0.16	(0.04)	-0.05	(0.02)	-0.21	(0.04)
	Viet Nam	0.24	(0.03)	0.22	(0.05)	0.11	(0.04)	-0.13	(0.05)	0.20 (0.02)	0.19 (0.05)	-0.01	(0.05)	0.19	(0.04)	0.20	(0.02)	0.01	(0.04)
	Argentina**	0.02		0.13	(0.02)	0.07	(0.03)	0.05	(0.08)	0.11 (0.02)	0.04 (0.03)		(0.04)		(0.03)	0.06	(0.02)	-0.10	(0.04)
	Kazakhstan**	1.01	(0.03)		(0.05)	0.99	(0.03)		(0.04)	0.98 (0.02)			(0.09)		(0.03)		(0.03)		(0.04)
_	Malaysia**	0.42	(0.03)	0.44	(0.03)	0.31	(0.03)	-0.11	(0.04)	0.40 (0.02)	0.13 (0.14)	-0.27	(0.14)	0.34	(0.11)	0.38	(0.02)	0.04	(0.12)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 3/3]

Table II.2.27 Index of enquiry-based instruction, by student and school characteristics

1103	sults based on studer	Change in		core per unit		pe	r unit increa	of epistemic use on the ind sed instruction	lex	in scienc	e-related on on the ind	of expecting occupations p ex of enquiry action	er unit
		Before accou students' and socio-econom	d schools'	After acco students' a socio-econo	nd schools'	students' a	ounting for nd schools' omic profile	After acco students' ar socio-econo	nd schools'	Before accor students' and socio-econor	d schools'	After acco students' ar socio-econo	nd schools'
_		Score dif.	S.E.	Score dif.	S.E.	Unit dif.	S.E.	Unit dif.	S.E.	Odds ratio	S.E.	Odds ratio	S.E.
OECD	Australia	-3 -1	(1.6) (1.7)	-4 -3	(1.3) (1.3)	0.09 0.08	(0.02) (0.02)	0.08 0.07	(0.02) (0.02)	1.15 1.14	(0.04) (0.04)	1.13 1.13	(0.03) (0.04)
S.	Austria Belgium	-3	(1.7)	-3 -2	(1.4)	0.08	(0.02)	0.07	(0.02)	1.14	(0.04)	1.13	(0.04)
	Canada	-10	(1.2)	-11	(1.1)	0.05	(0.02)	0.04	(0.02)	1.05	(0.02)	1.04	(0.02)
	Chile	-16	(1.6)	-12	(1.4)	0.02	(0.02)	0.04	(0.02)	1.00	(0.03)	1.02	(0.03)
	Czech Republic	-7	(1.7)	-7	(1.6)	0.02	(0.02)	0.02	(0.02)	1.09	(0.04)	1.09	(0.04)
	Denmark	4	(2.2)	0	(2.0)	0.10	(0.03)	0.08	(0.03)	1.02	(0.05)	1.01	(0.05)
	Estonia	-19	(1.9)	-18	(1.7)	-0.03	(0.02)	-0.03	(0.02)	0.96	(0.04)	0.96	(0.04)
	Finland	-1	(1.9)	-5	(1.8)	0.07	(0.02)	0.04	(0.02)	1.07	(0.03)	1.02	(0.03)
	France Germany	0 3	(2.3)	-3 -2	(1.5)	0.09 0.14	(0.02)	0.08 0.12	(0.03)	1.09 1.14	(0.03)	1.07 1.10	(0.04)
	Greece	-18	(1.8)	-14	(1.4)	-0.04	(0.02)	-0.02	(0.02)	1.01	(0.03)	1.04	(0.03)
	Hungary	-6	(1.8)	-5	(1.4)	0.05	(0.02)	0.06	(0.02)	1.15	(0.05)	1.17	(0.05)
	Iceland	-2	(1.7)	-4	(1.7)	0.06	(0.03)	0.05	(0.03)	0.95	(0.04)	0.93	(0.04)
	Ireland	-3	(2.5)	-4	(2.3)	0.10	(0.02)	0.09	(0.02)	1.17	(0.05)	1.17	(0.05)
	Israel	-11	(1.9)	-8	(1.7)	0.04	(0.02)	0.05	(0.02)	1.23	(0.04)	1.21	(0.04)
	Italy	-12	(1.8)	-7	(1.6)	0.02	(0.02)	0.04	(0.02)	1.20	(0.04)	1.31	(0.05)
	Japan	-1	(1.9)	-4	(1.4)	0.09	(0.02)	0.07	(0.01)	1.07	(0.03)	1.05	(0.03)
	Korea	-9 12	(1.8)	-9	(1.3)	0.06	(0.01)	0.06	(0.01)	1.00	(0.03)	1.00	(0.03)
	Luvembourg	-12	(2.3)	-10	(2.1)	-0.04	(0.03)	-0.03	(0.03)	0.90	(0.04)	0.92	(0.05)
	Luxembourg Mexico	-6 -8	(1.6)	-4 -7	(1.4)	0.05 0.07	(0.02)	0.07 0.08	(0.02)	1.10 1.05	(0.04) (0.03)	1.12 1.05	(0.04) (0.03)
	Netherlands	- 6	(2.1)	-6	(1.2)	0.07	(0.02)	0.08	(0.02)	1.05	(0.03)	1.05	(0.03)
	New Zealand	-17	(1.9)	-16	(1.8)	0.04	(0.02)	0.06	(0.02)	1.00	(0.04)	1.00	(0.04)
	Norway	-8	(2.1)	-8	(2.0)	0.05	(0.03)	0.05	(0.03)	1.05	(0.04)	1.05	(0.04)
	Poland	-16	(1.9)	-12	(1.7)	-0.03	(0.02)	-0.01	(0.02)	0.89	(0.04)	0.94	(0.04)
	Portugal	-7	(1.9)	-6	(1.6)	0.05	(0.02)	0.05	(0.02)	1.10	(0.04)	1.11	(0.04)
	Slovak Republic	-11	(1.5)	-8	(1.3)	-0.05	(0.02)	-0.04	(0.02)	1.07	(0.04)	1.09	(0.04)
	Slovenia	-6	(2.6)	-6	(2.1)	0.01	(0.03)	0.01	(0.03)	1.13	(0.06)	1.13	(0.06)
	Spain	-6	(1.6)	-5	(1.4)	0.05	(0.02)	0.05	(0.02)	1.07	(0.03)	1.08	(0.03)
	Sweden	-5	(1.7)	-7	(1.6)	0.07	(0.02)	0.06	(0.02)	1.05	(0.04)	1.05	(0.04)
	Switzerland	-10	(2.0)	-8	(1.7)	0.04	(0.02)	0.05	(0.02)	1.01	(0.04)	1.02	(0.04)
	Turkey	-10	(1.3)	-7	(1.0)	-0.02	(0.02)	-0.01	(0.02)	1.01	(0.03)	1.04	(0.03)
	United Kingdom United States	-5 -11	(1.7) (1.4)	-6 -10	(1.5)	0.10 0.02	(0.02)	0.10 0.02	(0.02)	1.13 1.03	(0.04)	1.12 1.03	(0.04)
	OECD average	-7	(0.3)	-7	(0.3)	0.05	(0.00)	0.04	(0.00)	1.07	(0.01)	1.07	(0.01)
2	Albania	m	m	m	m	0.12	(0.02)	0.11	(0.02)	1.13	(0.06)	1.09	(0.06)
ne	Algeria	-4	(1.4)	-3	(1.3)	0.04	(0.02)	0.04	(0.02)	1.06	(0.04)	1.07	(0.05)
Partners	Brazil	-11	(1.2)	-10	(1.0)	0.02	(0.01)	0.02	(0.01)	1.00	(0.02)	1.01	(0.02)
_	B-S-J-G (China)	7	(2.0)	-2	(1.3)	0.11	(0.02)	0.08	(0.01)	1.07	(0.03)	1.03	(0.03)
	Bulgaria	-22	(1.9)	-12	(1.2)	-0.07	(0.02)	-0.04	(0.02)	0.96	(0.03)	1.02	(0.04)
	CABA (Argentina) Colombia	-1 -7	(3.5)	-3 -8	(2.9)	0.09	(0.07)	0.08	(0.07)	1.02	(0.07) (0.03)	1.02	(0.07)
	Costa Rica	-6	(1.5)	-6	(1.2)	0.00	(0.02)	0.00	(0.02)	1.00	(0.03)	1.00	(0.03)
	Croatia	-6	(1.4)	-4	(1.2)	0.07	(0.02)	0.05	(0.02)	1.09	(0.02)	1.10	(0.02)
	Cyprus*	-11	(1.4)	-9	(1.3)	-0.01	(0.02)	0.01	(0.02)	1.05	(0.03)	1.06	(0.03)
	Dominican Republic	-12	(1.9)	-9	(1.5)	-0.03	(0.03)	-0.02	(0.03)	1.01	(0.04)	1.01	(0.04)
	FYROM	-9	(1.7)	-6	(1.6)	-0.03	(0.02)	-0.03	(0.02)	1.12	(0.03)	1.14	(0.04)
	Georgia	-16	(2.0)	-11	(1.7)	-0.02	(0.02)	0.00	(0.02)	1.01	(0.05)	1.03	(0.05)
	Hong Kong (China)	-4	(1.7)	-4	(1.7)	0.12	(0.02)	0.11	(0.02)	1.10	(0.04)	1.09	(0.05)
	Indonesia	-7	(2.1)	-8	(1.8)	0.05	(0.02)	0.04	(0.02)	1.02	(0.05)	0.99	(0.06)
	Jordan	-8	(1.6)	-9 12	(1.5)	0.01	(0.02)	0.01	(0.02)	1.02	(0.03)	1.01	(0.03)
	Kosovo	-12	(1.8)	-12	(1.6)	-0.01	(0.03)	-0.01	(0.03)	1.05	(0.05)	1.04	(0.05)
	Lebanon Lithuania	-16 -8	(3.2)	-12 -7	(3.1)	0.01	(0.03)	0.02	(0.03)	1.01	(0.05)	1.05	(0.05) (0.04)
	Macao (China)	-3	(2.3)	-4	(2.3)	0.10	(0.02)	0.02	(0.02)	1.09	(0.05)	1.02	(0.04)
	Malta	1	(3.2)	-5	(2.6)	0.06	(0.03)	0.03	(0.03)	1.27	(0.06)	1.24	(0.06)
	Moldova	3	(2.7)	3	(2.7)	0.07	(0.02)	0.07	(0.02)	1.06	(0.06)	1.06	(0.06)
	Montenegro	-13	(0.9)	-8	(0.9)	-0.02	(0.02)	-0.01	(0.02)	0.99	(0.03)	1.02	(0.03)
	Peru	-13	(1.5)	-8	(1.1)	0.02	(0.02)	0.04	(0.02)	0.99	(0.03)	1.02	(0.03)
	Qatar	-15	(0.9)	-11	(0.9)	-0.01	(0.01)	0.00	(0.01)	0.99	(0.02)	1.00	(0.02)
	Romania	-8	(2.1)	-6	(1.7)	-0.01	(0.02)	-0.01	(0.02)	0.99	(0.04)	1.03	(0.05)
	Russia	-12	(1.6)	-12	(1.7)	0.00	(0.02)	0.00	(0.02)	1.09	(0.04)	1.09	(0.04)
	Singapore	7	(1.9)	-1	(1.7)	0.14	(0.02)	0.11	(0.02)	1.19	(0.04)	1.16	(0.04)
	Chinaga Tair -!	0	(1.5)	-2	(1.2)	0.07 0.09	(0.01)	0.06 0.09	(0.01)	1.11 0.99	(0.03)	1.10 1.02	(0.03) (0.04)
	Chinese Taipei	_2	(1.4)			0.09	(0.01)	0.09			(0.03)	1.02	
	Thailand	-3 -2	(1.4)	0			(0.02)	0.01	(0.02)	1 00		1.09	(0.04)
	Thailand Trinidad and Tobago	-2	(1.8)	-4	(1.5)	0.01	(0.02)	0.01 0.04	(0.02)	1.09 0.97	(0.04)	1.08 0.99	(0.04)
	Thailand	-2 -12	(1.8) (1.3)	-4 -9	(1.5) (1.3)	0.01 0.03	(0.02)	0.04	(0.02)	0.97	(0.04) (0.03)	0.99	(0.03)
	Thailand Trinidad and Tobago Tunisia	-2	(1.8)	-4	(1.5)	0.01					(0.04)		
	Thailand Trinidad and Tobago Tunisia United Arab Emirates	-2 -12 -13	(1.8) (1.3) (1.4)	-4 -9 -8	(1.5) (1.3) (1.3)	0.01 0.03 0.01	(0.02) (0.01)	0.04 0.02	(0.02) (0.01)	0.97 1.01	(0.04) (0.03) (0.02)	0.99 1.02	(0.03) (0.02)
	Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	-2 -12 -13 -12 0	(1.8) (1.3) (1.4) (1.7) (3.1)	-4 -9 -8 -10	(1.5) (1.3) (1.3) (1.4) (2.3)	0.01 0.03 0.01 -0.04 0.04	(0.02) (0.01) (0.02) (0.02)	0.04 0.02 -0.03 0.05	(0.02) (0.01) (0.02) (0.02)	0.97 1.01 1.08 1.09	(0.04) (0.03) (0.02) (0.03) (0.06)	0.99 1.02 1.09 1.10	(0.03) (0.02) (0.03) (0.06)
	Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	-2 -12 -13 -12	(1.8) (1.3) (1.4) (1.7)	-4 -9 -8 -10	(1.5) (1.3) (1.3) (1.4)	0.01 0.03 0.01 -0.04	(0.02) (0.01) (0.02)	0.04 0.02 -0.03	(0.02) (0.01) (0.02)	0.97 1.01 1.08	(0.04) (0.03) (0.02) (0.03)	0.99 1.02 1.09	(0.03) (0.02) (0.03)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/1]

Table II.3.1 Student truancy

Results based on students' self-reports

Res	ults based on studer	nts' self-re	ports		Parca	ntago (of stud	ante u	ho rei	norted	that,	during	the t	WO WO	aks nr	ior to	the PI	SA to	·t				
		Ls	kipped a v	vhole	e day of sc		Ji stuu	lents w	viio re		ped so			wo we	eks pi	101 10	tile i i		ved lat	e for s	school		
		Never	Once o	or	Three or four times	Fiv	e or	No	ver	One	e or	Thre	e or	Five	e or	Ne	ever	On	ce or	Thre	ee or times	Five	e or
		% S.E.	% S.		% S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Q.	Australia	71.0 (0.6)	22.4 (0		3.8 (0.2)	2.8		84.0	(0.4)	12.2	(0.3)	2.2	(0.1)	1.6	(0.1)	59.0	(0.6)	27.1	(0.5)	8.2	(0.3)	5.7	(0.3)
OECD	Austria	89.1 (0.5)		.4)	1.6 (0.2)	1.7	(0.2)	82.8	(0.7)	12.9	(0.6)	2.3	(0.2)	2.0	(0.2)	64.8	(1.0)	24.9	(0.8)	5.8	(0.4)	4.5	(0.3)
	Belgium	92.9 (0.3)	5.1 (0	.3)	0.9 (0.1)	1.0	(0.1)	88.3	(0.6)	8.7	(0.4)	1.7	(0.2)	1.4	(0.2)	48.5	(0.9)	32.4	(0.7)	9.5	(0.4)	9.7	(0.5)
	Canada	82.2 (0.5)	14.3 (0	.4)	1.9 (0.2)	1.6	(0.1)	73.5	(0.7)	20.1	(0.5)	3.9	(0.2)	2.5	(0.2)	52.3	(0.8)	30.1	(0.5)	9.6	(0.4)	8.0	(0.4)
	Chile	90.7 (0.6)			1.1 (0.2)	1.1	(0.2)	81.3	(0.8)	14.7	(0.7)	2.5	(0.3)	1.5	(0.2)	33.3	(0.9)	37.5	(0.8)	13.8	(0.5)	15.4	
	Czech Republic	91.9 (0.4)			0.8 (0.1)	1.2	(0.2)	90.4	(0.5)	7.2	(0.4)	1.2	(0.1)	1.2	(0.2)	48.0	(0.9)	33.8	(0.7)	8.8	(0.5)	9.3	(0.4)
	Denmark	83.0 (0.6)			2.0 (0.2)	2.3		76.0	(0.8)	18.5	(0.7)	2.7	(0.3)	2.8		52.4	(0.9)	28.5		9.9	(0.4)	9.1	(0.5)
	Estonia Finland	77.0 (0.8) 63.4 (0.9)		.7)	3.0 (0.3) 5.9 (0.3)	3.6		65.1 51.8	(0.8)	26.7 38.0	(0.7)	5.1 6.1	(0.4)	3.1	(0.3)	57.1 63.8	(0.9)	29.4 25.7	(0.7)	7.8 6.6	(0.4)	5.7 3.9	
	France	89.2 (0.6)		.4)	1.4 (0.2)	2.3		75.2	(0.8)	16.7	(0.6)	4.1	(0.4)	4.0		47.4	(0.9)	31.9	(0.7)	9.6	(0.4)	11.1	(0.5)
	Germany	91.1 (0.4)		.4)	1.1 (0.2)	1.2		84.3	(0.7)	12.2	(0.6)	2.2	(0.2)	1.4	(0.2)	59.9	(1.0)	27.3	(0.8)	6.9	(0.4)	5.9	
	Greece	80.4 (0.8)		.6)	1.9 (0.2)	2.8	(0.3)	54.7	(1.4)	31.9	(1.0)	7.4	(0.4)	6.0	(0.5)	45.8	(0.8)	33.0	(0.6)	11.2	(0.5)	10.0	(0.5)
	Hungary	91.6 (0.5)	6.5 (0	.4)	0.8 (0.1)	1.1	(0.2)	82.3	(0.8)	13.6	(0.7)	2.4	(0.3)	1.7	(0.2)	64.2	(0.9)	25.9	(0.8)	5.4	(0.3)	4.4	(0.4)
	Iceland	95.5 (0.4)	3.1 (0	.3)	0.6 (0.1)	0.8	(0.1)	81.5	(0.7)	13.3	(0.5)	2.7	(0.3)	2.5	(0.3)	50.0	(1.0)	32.1	(0.9)	9.5	(0.5)	8.4	(0.5)
	Ireland	75.6 (0.8)			2.6 (0.2)	1.3		76.9	(0.8)	18.0	(0.6)	3.5	(0.3)	1.5	(0.2)	68.9	(0.9)	24.0	(0.7)	4.6	(0.3)	2.5	(0.2)
	Israel	67.3 (0.9)	24.3 (0		4.4 (0.3)	4.0		62.0	(1.1)	25.6	(0.8)	5.9	(0.4)	6.5	(0.5)	42.1	(1.1)	33.4	(0.6)	11.4	(0.5)	13.1	(0.7)
	Italy	44.8 (0.8)		.8)	6.6 (0.3)	7.0		59.1	(0.7)	31.4	(0.6)	5.9	(0.3)	3.6		63.8	(0.9)	24.5	(0.7)	6.3	(0.3)	5.4	
	Japan Korea	98.2 (0.2)		.2)	0.2 (0.1)	0.3	(0.1)	96.9 97.4	(0.3)	2.2	(0.3)	0.5	(0.1)	0.4	(0.1)	88.3	(0.6)	9.4	(0.5)	3.2	(0.2)	1.1	(0.2)
	Latvia	75.3 (0.7)		.6)	3.0 (0.3)	2.2		60.9	(0.9)	30.0	(0.8)	5.4	(0.1)	3.6	(0.1)	46.9	(1.0)	33.4	(0.8)	10.8	(0.4)	8.9	(0.4)
	Luxembourg	88.6 (0.4)			1.6 (0.2)	2.4		84.7	(0.5)	10.7	(0.4)	2.1	(0.2)	2.5		45.7	(0.7)	34.0	(0.6)	9.8	(0.4)	10.5	(0.4)
	Mexico	74.2 (0.8)		.7)	2.5 (0.2)	1.3		75.1	(0.8)	21.1	(0.7)	2.4	(0.2)	1.4	(0.2)	51.1	(0.9)	38.4	(0.8)	7.1	(0.3)	3.3	(0.3)
	Netherlands	94.7 (0.3)			0.4 (0.1)	0.6		81.1	(0.8)	14.4	(0.6)	2.5	(0.2)	1.9	(0.2)	49.0	(0.8)	32.1	(0.6)	10.1	(0.5)	8.8	(0.4)
	New Zealand	75.0 (0.7)	18.7 (0	.6)	2.9 (0.2)	3.3	(0.3)	77.4	(0.7)	16.2	(0.6)	3.7	(0.2)	2.7	(0.3)	54.7	(1.0)	27.9	(0.7)	9.6	(0.4)	7.8	(0.5)
	Norway	86.5 (0.5)	9.9 (0	.5)	1.6 (0.2)	2.0	(0.2)	80.3	(0.7)	14.6	(0.6)	2.7	(0.2)	2.4	(0.2)	53.0	(0.9)	30.9	(0.7)	8.3	(0.4)	7.8	(0.5)
	Poland	79.7 (0.9)	13.5 (0	.6)	2.9 (0.3)	3.9	(0.3)	62.6	(1.2)	24.6	(0.8)	5.4	(0.4)	7.3	(0.5)	43.5	(1.2)	31.2	(0.9)	10.2	(0.5)	15.1	(0.8)
	Portugal	79.2 (0.7)		.6)	2.4 (0.2)	1.5		67.1	(0.7)	26.6	(0.7)	4.1	(0.3)	2.3	(0.2)	54.4	(1.0)	31.4		7.4	(0.4)	6.8	
	Slovak Republic	48.9 (1.0)		.8)	7.5 (0.4)	11.9	(0.4)	50.3	(0.8)	32.9	(0.7)	7.0	(0.3)	9.8	(0.4)	62.8	(0.9)	25.3	(0.7)	5.5	(0.4)	6.4	
	Slovenia	87.6 (0.5) 75.3 (0.7)	9.2 (0) 20.3 (0)		1.7 (0.2)	1.5		70.9	(0.8)	20.9		5.0	(0.3)	3.2		50.5	(0.9)	35.5		7.6	(0.4)	6.5	
	Spain Sweden	75.3 (0.7) 91.0 (0.5)		.6)	2.5 (0.2) 1.0 (0.2)	1.8		83.7	(0.9)	26.4 12.2	(0.7)	4.4 2.2	(0.3)	2.6 1.9	(0.2)	58.0 45.5	(0.9)	27.4 32.6	(0.6)	8.1	(0.4)	9.8	(0.4)
	Switzerland	90.4 (0.6)			1.4 (0.2)	2.2		82.7	(0.8)	12.0	(0.7)	2.6	(0.2)	2.7	(0.2)	54.2	(1.1)	29.5		8.7	(0.5)	7.6	(0.5)
	Turkey	53.0 (0.9)			9.3 (0.4)	7.9		55.4	(1.0)	29.7	(0.8)	8.8	(0.4)	6.2	(0.5)	51.8	(1.2)	31.6	(0.8)	8.5	(0.5)	8.1	(0.6)
	United Kingdom	74.5 (0.6)		.6)	2.6 (0.2)	1.9	(0.2)	66.1	(0.8)	27.2	(0.7)	4.3	(0.3)	2.4	(0.2)	67.1	(0.9)	23.9	(0.7)		(0.4)		
	United States	62.8 (0.8)	30.9 (0	.7)	4.2 (0.3)	2.1	(0.2)	57.8	(1.1)	35.1	(1.0)	5.2	(0.3)	1.9	(0.2)	65.2	(1.1)	25.8	(0.8)	5.5	(0.3)	3.4	(0.4)
	OECD average	80.3 (0.1)	14.7 (0	.1)	2.5 (0.0)	2.5	(0.0)	73.9	(0.1)	19.4	(0.1)	3.7	(0.0)	2.9	(0.0)	55.5	(0.2)	29.0	(0.1)	8.1	(0.1)	7.3	(0.1)
-S-	Brazil	52.0 (0.6)	37.9 (0	.5)	5.9 (0.2)	4.1	(0.2)	54.0	(0.6)	36.1	(0.6)	6.2	(0.3)	3.7	(0.2)	60.1	(0.7)	28.7	(0.5)	6.2	(0.3)	5.0	(0.2)
rtners	B-S-J-G (China)	97.7 (0.2)	1.6 (0	.2)	0.3 (0.1)	0.4	(0.1)	89.9	(0.5)	8.3	(0.5)	1.0	(0.1)	0.8	(0.1)	60.2	(1.1)	29.9	(0.9)	5.7	(0.3)	4.2	(0.3)
Par	Bulgaria	55.3 (0.9)	31.2 (0	.8)	6.1 (0.3)	7.4	(0.4)	52.5	(1.2)	32.7	(0.9)	7.9	(0.5)	7.0	(0.4)	44.3	(1.0)	31.6	(0.7)	11.1	(0.5)	13.0	(0.7)
	Colombia	56.2 (0.8)	37.5 (0	- 1	3.8 (0.2)	2.6	(0.2)	54.5	(0.8)	38.5	(0.7)	4.6	(0.3)	2.4	(0.2)	57.1	(0.9)	33.4	(0.7)	6.5	(0.4)	3.0	(0.2)
	Costa Rica	60.9 (0.9)			3.7 (0.3)		(0.3)		(0.9)	34.1			(0.3)		(0.2)		(1.0)		(0.8)		(0.6)		(0.4)
	Croatia	87.7 (0.6)			1.8 (0.2)	1.8		75.5		18.2	(0.6)	3.5	(0.3)	2.8		57.4				6.9	(0.4)	6.5	
	Cyprus* Dominican Republic	76.6 (0.6) 48.6 (0.9)			3.3 (0.2) 6.5 (0.5)		(0.2)		(0.7)	25.5			(0.4)		(0.4)		(0.7)				(0.5)		(0.4)
	Hong Kong (China)	96.5 (0.2)			0.6 (0.1)		(0.4)		(0.3)	46.3	(0.3)		(0.4)				(0.7)				(0.4)		(0.4)
	Lithuania	77.7 (0.7)			2.8 (0.3)		(0.2)	59.6	(0.9)	29.6		6.2	(0.1)		(0.2)	52.2	(0.8)		(0.7)		(0.4)		(0.4)
	Macao (China)	93.6 (0.4)			0.6 (0.1)		(0.1)		(0.4)		(0.4)	1.1	(0.2)								(0.3)		(0.2)
	Montenegro	40.4 (0.8)			10.4 (0.4)		(0.5)	45.1	(0.7)	33.8		10.1	(0.4)	11.1					(0.7)		(0.5)		(0.5)
	Peru	60.0 (0.8)			5.2 (0.2)		(0.3)	58.9	(0.7)	35.2		4.2	(0.3)		(0.2)				(0.8)	10.5	(0.4)		(0.4)
	Qatar	59.7 (0.5)	28.0 (0	.5)	8.2 (0.2)	4.0	(0.2)	65.2	(0.4)	25.4	(0.4)	6.3	(0.2)	3.1	(0.2)	53.2	(0.4)	30.5	(0.4)	10.0	(0.3)	6.2	(0.2)
	Russia	76.8 (0.7)			3.2 (0.2)		(0.2)		(1.2)	26.7			(0.5)		(0.4)	44.5					(0.6)		(0.7)
	Singapore	85.7 (0.5)			1.7 (0.2)		(0.1)	86.5	(0.5)	11.7		1.3			(0.1)	76.1	(0.6)		(0.6)	3.4	(0.2)		(0.2)
	Chinese Taipei	96.8 (0.2)			0.5 (0.1)		(0.1)		(0.5)		(0.5)	1.4					(0.8)				(0.3)		(0.3)
	Thailand	68.6 (0.9)			4.0 (0.3)		(0.2)	58.1	(1.1)	36.0		4.7		_	(0.2)		(1.0)				(0.4)		(0.3)
	Tunisia	69.0 (0.9)			4.4 (0.4)		(0.3)			29.7			(0.4)				(0.8)				(0.5)		(0.6)
	United Arab Emirates Uruguay	79.0 (0.7) 48.5 (0.8)			2.9 (0.2)		(0.2)	59.7	(0.7)	23.7			(0.3)		(0.2)		(0.7)				(0.3)		(0.3)
_	<u> </u>	-	-		6.1 (0.3)								(0.3)			-			(0.7)			-	
_	Malaysia**	87.6 (0.7)	10.1 (0	.5)	1.4 (0.2)	0.9	(0.1)	77.1	(0.9)	18.7	(0.7)	2.8	(0.3)	1.4	(0.2)	65.5	(0.9)	25.6	(0.8)	5.4	(0.3)	3.5	(0.3)

Note: Only countries and economies with data from the computer-based questionnaire are shown.
* See note at the beginning of this Annex.
** Coverage is too small to ensure comparability (see Annex A4).
StatLink 編章 http://dx.doi.org/10.1787/888933436489



[Part 1/3]

Table II.3.4 Skipping a school day, science performance and school characteristics

Aver 0 0 9 1 1 8 3 3 1 0 0 0 6 6 8 8 9 6 4 4 5 5 4 7 7 2 2 8 8 9 9 7 4 4 8 8 3 0 0 5 5 3 8 8		Varia Vari	ability S.E. (0.3) (0.6) (0.6) (0.4) (0.8) (0.7) (0.5) (0.5) (0.2) (0.7) (0.6) (0.6) (0.7) (0.8) (0.5) (0.3) (0.1) (0.8) (0.4) (0.5) (0.4) (0.5)	% 33.7 14.4 12.2 21.5 13.2 10.8 19.1 26.6 42.2 21.3 12.4 27.6 16.3 5.7 27.7 33.0 63.8 3.5 3.9 29.0 18.3	(1.2) (1.1) (1.2) (1.1) (1.3) (0.9) (1.3) (2.1) (1.9) (1.8) (2.4) (1.4) (0.9) (1.8) (2.2) (1.8) (0.7) (0.7) (2.5)	% 31.5 10.1 8.3 17.9 9.7 8.3 17.7 24.3 37.4 11.1 9.7 17.9 8.3 5.1 23.5 34.1 57.3 1.7	quarter S.E. (1.0) (1.1) (0.9) (0.9) (1.2) (1.1) (1.3) (2.6) (2.4) (1.4) (1.0) (1.8) (1.1) (0.7) (1.8) (2.1) (2.3) (0.5)		(1.4) (1.4) (1.2) (1.7) (1.8) (2.0) (0.8) (1.0) (0.6) (2.1) (2.3) (1.9)	Top q % 23.5 10.8 2.9 14.2 6.4 5.6 14.2 13.7 31.1 5.9 7.3 18.4 3.9 4.3 20.3 31.6 48.2	Uarter S.E. (1.1) (1.2) (0.3) (1.2) (0.7) (1.3) (1.0) (1.6) (0.8) (0.9) (1.4) (0.6) (0.7) (1.5) (1.8) (1.8)	Top-b qua % dif10.2 -3.6 -9.2 -7.3 -6.8 -5.2 -4.8 -12.9 -11.1 -15.4 -5.1 -9.3 -12.4 -1.4 -7.4 -1.3	S.E. S.E. (1.6.6 (1.3.3 (1.6.6 (1.3.3 (1.6.6 (1.3.3 (1.6.6 (1.3.3 (1.6.6 (1.3.3 (1.6.6 (1.3.3 (1.6.6 (1.3.3 (1.6.6 (1.3.3 (1.5.6 (1.3.3 (1.5.6 (1.3.3 (1.5.6 (1.5.5
0 0 9 1 8 3 3 1 0 0 0 6 6 8 9 6 4 4 5 5 4 4 7 7 2 8 8 9 9 7 4 4 8 8 3 0 0 5 3	S.E. (0.6) (0.5) (0.3) (0.5) (0.6) (0.4) (0.8) (0.9) (0.8) (0.9) (0.8) (0.9) (0.8) (0.9) (0.8) (0.9) (0.8) (0.9) (0.8) (0.9) (0.8) (0.9) (0.8) (0.9) (0.8) (0.9) (0.8) (0.9) (S.D. 45.4 31.1 25.6 38.3 29.0 27.2 37.6 42.1 48.2 31.1 28.4 39.7 27.8 20.7 42.9 46.9 49.7 13.5 43.1 31.8 43.7 22.5	S.E. (0.3) (0.6) (0.6) (0.4) (0.8) (0.7) (0.5) (0.2) (0.7) (0.6) (0.6) (0.7) (0.8) (0.5) (0.3) (0.1) (0.8) (0.5) (0.3) (0.1) (0.8) (0.4) (0.5) (0.4)	% 33.7 14.4 12.2 21.5 13.2 10.8 19.1 26.6 42.2 21.3 12.4 27.6 16.3 5.7 27.7 33.0 63.8 3.5 3.9 29.0 18.3	S.E. (1.2) (1.1) (1.2) (1.1) (1.3) (0.9) (1.3) (2.1) (1.8) (1.3) (2.4) (1.4) (0.9) (1.8) (2.2) (1.8) (0.7) (0.7) (2.5)	% 31.5 10.1 8.3 17.9 9.7 8.3 17.7 24.3 37.4 11.1 9.7 17.9 8.3 5.1 23.5 34.1 57.3 1.7	S.E. (1.0) (1.1) (0.9) (0.9) (1.2) (1.1) (1.3) (2.6) (2.4) (1.4) (1.0) (1.8) (1.1) (0.7) (1.8) (2.1) (2.3) (0.5)	% 27.4 8.2 5.7 17.7 7.9 7.8 17.0 27.3 35.9 5.8 6.7 14.9 5.4 2.8 26.0 32.1 51.7	S.E. (1.4) (1.0) (0.7) (1.1) (1.4) (1.2) (1.7) (1.8) (2.0) (0.8) (1.0) (1.6) (0.9) (0.6) (2.1) (2.3) (1.9)	% 23.5 10.8 2.9 14.2 6.4 5.6 14.2 13.7 31.1 5.9 7.3 18.4 3.9 4.3 20.3 31.6 48.2	S.E. (1.1) (1.2) (0.3) (1.2) (1.2) (0.7) (1.3) (1.0) (1.6) (0.8) (0.9) (1.4) (0.6) (0.7) (1.5) (1.8)	"qua" % dif10.2 -3.6 -9.2 -7.3 -6.8 -5.2 -4.8 -12.9 -11.1 -15.4 -5.1 -9.3 -12.4 -1.4 -7.4 -1.3	S.E. (1.6.4) (1.6.7) (1.6.8) (1.6.6) (1.1.1) (1.6.6) (1.1.1) (2.4.4) (2.1.1) (2.5.5) (1.5.1.1.1) (2.5.5)
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3 1 0 0 0 6 6 8 8 9 6 4 4 7 7 2 8 8 9 7 4 8 8 3 0 0 5 5 5 7 4 4 8 7 7 7 7 8 8 8 8 9 7 7 7 7 7 8 8 8 8 9 7 7 7 8 8 8 8	(0.6) (0.4) (0.6) (0.8) (0.9) (0.6) (0.4) (0.8) (0.5) (0.4) (0.8) (0.2) (0.2) (0.7) (0.4) (0.8) (0.3) (0.7) (0.5)	29.0 27.2 37.6 42.1 48.2 31.1 28.4 39.7 27.8 20.7 42.9 46.9 49.7 13.2 13.5 43.1 31.8 43.7 22.5	(0.8) (0.7) (0.5) (0.5) (0.2) (0.7) (0.6) (0.6) (0.7) (0.8) (0.5) (0.3) (0.1) (0.8) (0.4) (0.5) (0.4)	13.2 10.8 19.1 26.6 42.2 21.3 12.4 27.6 16.3 5.7 27.7 33.0 63.8 3.5 3.9 29.0 18.3	(1.3) (0.9) (1.3) (2.1) (1.9) (1.8) (1.3) (2.4) (0.9) (1.8) (2.2) (1.8) (0.7) (0.7) (2.5)	9.7 8.3 17.7 24.3 37.4 11.1 9.7 17.9 8.3 5.1 23.5 34.1 57.3 1.7	(1.2) (1.1) (1.3) (2.6) (2.4) (1.4) (1.0) (1.8) (1.1) (0.7) (1.8) (2.1) (2.3) (0.5)	7.9 7.8 17.0 27.3 35.9 5.8 6.7 14.9 5.4 2.8 26.0 32.1 51.7	(1.4) (1.2) (1.7) (1.8) (2.0) (0.8) (1.0) (1.6) (0.9) (0.6) (2.1) (2.3) (1.9)	6.4 5.6 14.2 13.7 31.1 5.9 7.3 18.4 3.9 4.3 20.3 31.6 48.2	(1.2) (0.7) (1.3) (1.0) (1.6) (0.8) (0.9) (1.4) (0.6) (0.7) (1.5) (1.8)	-6.8 -5.2 -4.8 -12.9 -11.1 -15.4 -5.1 -9.3 -12.4 -1.4 -7.4 -1.3	(1.6 (1.1 (1.9 (2.4 (2.4 (2.1 (1.7 (2.9 (1.5 (1.1 (2.5
1 0 0 0 6 8 8 9 6 4 4 5 4 7 2 8 8 9 7 4 8 8 9 9 7 4 8 8 9 9 7 4 8 8 9 9 7 4 8 8 8 9 9 7 4 8 8 8 8 9 9 7 4 8 8 8 8 9 9 9 5 5 8 8 8 8 9 8 9 8 8 9 8 9	(0.4) (0.6) (0.8) (0.9) (0.6) (0.4) (0.8) (0.5) (0.4) (0.8) (0.9) (0.8) (0.2) (0.2) (0.7) (0.4) (0.8) (0.3) (0.3) (0.5)	27.2 37.6 42.1 48.2 31.1 28.4 39.7 27.8 20.7 42.9 46.9 49.7 13.2 13.5 43.1 31.8 43.7 22.5	(0.7) (0.5) (0.5) (0.5) (0.2) (0.7) (0.6) (0.6) (0.7) (0.8) (0.5) (0.3) (0.1) (0.8) (0.8) (0.4) (0.5)	10.8 19.1 26.6 42.2 21.3 12.4 27.6 16.3 5.7 27.7 33.0 63.8 3.5 3.9 29.0 18.3	(0.9) (1.3) (2.1) (1.9) (1.8) (1.3) (2.4) (1.4) (0.9) (1.8) (2.2) (1.8) (0.7) (0.7) (2.5)	8.3 17.7 24.3 37.4 11.1 9.7 17.9 8.3 5.1 23.5 34.1 57.3 1.7	(1.1) (1.3) (2.6) (2.4) (1.4) (1.0) (1.8) (1.1) (0.7) (1.8) (2.1) (2.3) (0.5)	7.8 17.0 27.3 35.9 5.8 6.7 14.9 5.4 2.8 26.0 32.1 51.7	(1.2) (1.7) (1.8) (2.0) (0.8) (1.0) (1.6) (0.9) (0.6) (2.1) (2.3) (1.9)	5.6 14.2 13.7 31.1 5.9 7.3 18.4 3.9 4.3 20.3 31.6 48.2	(0.7) (1.3) (1.0) (1.6) (0.8) (0.9) (1.4) (0.6) (0.7) (1.5) (1.8)	-5.2 -4.8 -12.9 -11.1 -15.4 -5.1 -9.3 -12.4 -1.4 -7.4 -1.3	(1.1 (1.9 (2.2 (2.1 (1.5 (2.9 (1.5 (1.1 (2.5)
0 0 0 6 8 8 9 6 4 4 5 4 7 7 2 8 8 9 7 4 8 8 9 9 7 4 8 8 9 9 7 7 4 8 8 9 9 7 7 4 8 8 8 9 9 7 7 8 8 9 9 7 7 8 8 8 9 9 9 9	(0.6) (0.8) (0.9) (0.6) (0.4) (0.8) (0.5) (0.4) (0.8) (0.9) (0.2) (0.2) (0.7) (0.4) (0.8) (0.3) (0.3) (0.7) (0.5)	37.6 42.1 48.2 31.1 28.4 39.7 27.8 20.7 42.9 46.9 49.7 13.2 13.5 43.1 31.8 43.7 22.5	(0.5) (0.5) (0.2) (0.7) (0.6) (0.6) (0.7) (0.8) (0.1) (0.8) (0.4) (0.5) (0.4)	19.1 26.6 42.2 21.3 12.4 27.6 16.3 5.7 27.7 33.0 63.8 3.5 3.9 29.0	(1.3) (2.1) (1.9) (1.8) (1.3) (2.4) (1.4) (0.9) (1.8) (2.2) (1.8) (0.7) (0.7) (2.5)	17.7 24.3 37.4 11.1 9.7 17.9 8.3 5.1 23.5 34.1 57.3 1.7	(1.3) (2.6) (2.4) (1.4) (1.0) (1.8) (1.1) (0.7) (1.8) (2.1) (2.3) (0.5)	17.0 27.3 35.9 5.8 6.7 14.9 5.4 2.8 26.0 32.1 51.7	(1.7) (1.8) (2.0) (0.8) (1.0) (1.6) (0.9) (0.6) (2.1) (2.3) (1.9)	14.2 13.7 31.1 5.9 7.3 18.4 3.9 4.3 20.3 31.6 48.2	(1.3) (1.0) (1.6) (0.8) (0.9) (1.4) (0.6) (0.7) (1.5) (1.8)	-4.8 -12.9 -11.1 -15.4 -5.1 -9.3 -12.4 -1.4 -7.4 -1.3	(1.9 (2.4 (2.1 (1.5 (2.9 (1.1 (2.9 (2.1)
0 6 8 9 6 4 4 5 4 7 2 8 8 9 7 4 8 8 3 0 0 5 5 3 0 0 5 3 0 0 5 5 3 0 0 5 5 3 0 0 5 5 3 0 0 5 5 3 0 0 5 5 3 0 0 5 5 3 0 5 5 3 3 0 5 5 3 3 3 3	(0.8) (0.9) (0.6) (0.4) (0.8) (0.5) (0.4) (0.8) (0.9) (0.8) (0.2) (0.2) (0.7) (0.4) (0.8) (0.3) (0.7) (0.5)	42.1 48.2 31.1 28.4 39.7 27.8 20.7 42.9 46.9 49.7 13.2 13.5 43.1 31.8 43.7 22.5	(0.5) (0.2) (0.7) (0.6) (0.6) (0.7) (0.8) (0.5) (0.3) (0.1) (0.8) (0.8) (0.4) (0.5) (0.4)	26.6 42.2 21.3 12.4 27.6 16.3 5.7 27.7 33.0 63.8 3.5 3.9 29.0 18.3	(2.1) (1.9) (1.8) (1.3) (2.4) (1.4) (0.9) (1.8) (2.2) (1.8) (0.7) (0.7) (2.5)	24.3 37.4 11.1 9.7 17.9 8.3 5.1 23.5 34.1 57.3 1.7	(2.6) (2.4) (1.4) (1.0) (1.8) (1.1) (0.7) (1.8) (2.1) (2.3) (0.5)	27.3 35.9 5.8 6.7 14.9 5.4 2.8 26.0 32.1 51.7	(1.8) (2.0) (0.8) (1.0) (1.6) (0.9) (0.6) (2.1) (2.3) (1.9)	13.7 31.1 5.9 7.3 18.4 3.9 4.3 20.3 31.6 48.2	(1.0) (1.6) (0.8) (0.9) (1.4) (0.6) (0.7) (1.5) (1.8)	-12.9 -11.1 -15.4 -5.1 -9.3 -12.4 -1.4 -7.4 -1.3	(2.··(2.··(1.··(2.··(1.··(1.··(2.··(1.··(2.··(1.··(1
6 8 8 9 9 6 4 4 5 5 4 4 7 7 2 2 8 8 9 9 7 4 8 8 3 0 0 5 5 3	(0.9) (0.6) (0.4) (0.8) (0.5) (0.4) (0.8) (0.9) (0.8) (0.2) (0.2) (0.7) (0.4) (0.8) (0.3) (0.7) (0.5)	48.2 31.1 28.4 39.7 27.8 20.7 42.9 46.9 13.2 13.5 43.1 31.8 43.7 22.5	(0.2) (0.7) (0.6) (0.6) (0.7) (0.8) (0.5) (0.3) (0.1) (0.8) (0.4) (0.5) (0.4)	42.2 21.3 12.4 27.6 16.3 5.7 27.7 33.0 63.8 3.5 3.9 29.0	(1.9) (1.8) (1.3) (2.4) (1.4) (0.9) (1.8) (2.2) (1.8) (0.7) (0.7) (2.5)	37.4 11.1 9.7 17.9 8.3 5.1 23.5 34.1 57.3 1.7	(2.4) (1.4) (1.0) (1.8) (1.1) (0.7) (1.8) (2.1) (2.3) (0.5)	35.9 5.8 6.7 14.9 5.4 2.8 26.0 32.1 51.7	(2.0) (0.8) (1.0) (1.6) (0.9) (0.6) (2.1) (2.3) (1.9)	31.1 5.9 7.3 18.4 3.9 4.3 20.3 31.6 48.2	(1.6) (0.8) (0.9) (1.4) (0.6) (0.7) (1.5) (1.8)	-11.1 -15.4 -5.1 -9.3 -12.4 -1.4 -7.4 -1.3	(2. (2. (1. (2. (1. (1. (2.
8 9 9 6 4 4 5 5 4 7 7 2 8 8 9 9 7 4 4 8 3 3 0 5 5 3	(0.6) (0.4) (0.8) (0.5) (0.4) (0.8) (0.9) (0.8) (0.2) (0.7) (0.4) (0.8) (0.3) (0.7) (0.5)	31.1 28.4 39.7 27.8 20.7 42.9 46.9 49.7 13.2 13.5 43.1 31.8 43.7 22.5	(0.7) (0.6) (0.6) (0.7) (0.8) (0.5) (0.3) (0.1) (0.8) (0.4) (0.5) (0.4)	21.3 12.4 27.6 16.3 5.7 27.7 33.0 63.8 3.5 3.9 29.0	(1.8) (1.3) (2.4) (1.4) (0.9) (1.8) (2.2) (1.8) (0.7) (0.7) (2.5)	11.1 9.7 17.9 8.3 5.1 23.5 34.1 57.3 1.7	(1.4) (1.0) (1.8) (1.1) (0.7) (1.8) (2.1) (2.3) (0.5)	5.8 6.7 14.9 5.4 2.8 26.0 32.1 51.7	(0.8) (1.0) (1.6) (0.9) (0.6) (2.1) (2.3) (1.9)	5.9 7.3 18.4 3.9 4.3 20.3 31.6 48.2	(0.8) (0.9) (1.4) (0.6) (0.7) (1.5) (1.8)	-15.4 -5.1 -9.3 -12.4 -1.4 -7.4 -1.3	(2. (1. (2. (1. (1. (2. (2. (2. (2. (2. (2. (2. (2. (2. (2
9 6 4 5 4 7 2 8 9 7 4 8 8 3 0 5 3	(0.4) (0.8) (0.5) (0.4) (0.8) (0.9) (0.8) (0.2) (0.7) (0.4) (0.8) (0.3) (0.7) (0.5)	28.4 39.7 27.8 20.7 42.9 46.9 49.7 13.2 13.5 43.1 31.8 43.7 22.5	(0.6) (0.6) (0.7) (0.8) (0.5) (0.3) (0.1) (0.8) (0.8) (0.4) (0.5) (0.4)	12.4 27.6 16.3 5.7 27.7 33.0 63.8 3.5 3.9 29.0 18.3	(1.3) (2.4) (1.4) (0.9) (1.8) (2.2) (1.8) (0.7) (0.7) (2.5)	9.7 17.9 8.3 5.1 23.5 34.1 57.3 1.7	(1.0) (1.8) (1.1) (0.7) (1.8) (2.1) (2.3) (0.5)	6.7 14.9 5.4 2.8 26.0 32.1 51.7	(1.0) (1.6) (0.9) (0.6) (2.1) (2.3) (1.9)	7.3 18.4 3.9 4.3 20.3 31.6 48.2	(0.9) (1.4) (0.6) (0.7) (1.5) (1.8)	-5.1 -9.3 -12.4 -1.4 -7.4 -1.3	(1. (2. (1. (1. (2.
6 4 5 4 7 2 8 8 9 7 4 8 8 3 0 5 3	(0.8) (0.5) (0.4) (0.8) (0.9) (0.8) (0.2) (0.2) (0.7) (0.4) (0.8) (0.3) (0.7) (0.5)	39.7 27.8 20.7 42.9 46.9 49.7 13.2 13.5 43.1 31.8 43.7 22.5	(0.6) (0.7) (0.8) (0.5) (0.3) (0.1) (0.8) (0.8) (0.4) (0.5) (0.4)	27.6 16.3 5.7 27.7 33.0 63.8 3.5 3.9 29.0 18.3	(2.4) (1.4) (0.9) (1.8) (2.2) (1.8) (0.7) (0.7) (2.5)	17.9 8.3 5.1 23.5 34.1 57.3 1.7	(1.8) (1.1) (0.7) (1.8) (2.1) (2.3) (0.5)	14.9 5.4 2.8 26.0 32.1 51.7	(1.6) (0.9) (0.6) (2.1) (2.3) (1.9)	18.4 3.9 4.3 20.3 31.6 48.2	(1.4) (0.6) (0.7) (1.5) (1.8)	-9.3 -12.4 -1.4 -7.4 -1.3	(2. (1. (1. (2.
4 5 4 7 2 8 8 9 7 4 8 8 3 0 5 3	(0.5) (0.4) (0.8) (0.9) (0.8) (0.2) (0.2) (0.7) (0.4) (0.8) (0.3) (0.7) (0.5)	27.8 20.7 42.9 46.9 49.7 13.2 13.5 43.1 31.8 43.7 22.5	(0.7) (0.8) (0.5) (0.3) (0.1) (0.8) (0.8) (0.4) (0.5) (0.4)	16.3 5.7 27.7 33.0 63.8 3.5 3.9 29.0 18.3	(1.4) (0.9) (1.8) (2.2) (1.8) (0.7) (0.7) (2.5)	8.3 5.1 23.5 34.1 57.3 1.7 1.0	(1.1) (0.7) (1.8) (2.1) (2.3) (0.5)	5.4 2.8 26.0 32.1 51.7	(0.9) (0.6) (2.1) (2.3) (1.9)	3.9 4.3 20.3 31.6 48.2	(0.6) (0.7) (1.5) (1.8)	-12.4 -1.4 -7.4 -1.3	(1. (1.
5 4 7 2 8 9 7 4 8 3 0 5 3	(0.4) (0.8) (0.9) (0.8) (0.2) (0.2) (0.7) (0.4) (0.8) (0.3) (0.7) (0.5)	20.7 42.9 46.9 49.7 13.2 13.5 43.1 31.8 43.7 22.5	(0.8) (0.5) (0.3) (0.1) (0.8) (0.8) (0.4) (0.5) (0.4)	5.7 27.7 33.0 63.8 3.5 3.9 29.0 18.3	(0.9) (1.8) (2.2) (1.8) (0.7) (0.7) (2.5)	5.1 23.5 34.1 57.3 1.7	(0.7) (1.8) (2.1) (2.3) (0.5)	2.8 26.0 32.1 51.7	(0.6) (2.1) (2.3) (1.9)	4.3 20.3 31.6 48.2	(0.7) (1.5) (1.8)	-1.4 - 7.4 -1.3	(1. (2.
4 7 2 8 9 7 4 8 3 0 5 3	(0.8) (0.9) (0.8) (0.2) (0.2) (0.7) (0.4) (0.8) (0.3) (0.7) (0.5)	42.9 46.9 49.7 13.2 13.5 43.1 31.8 43.7 22.5	(0.5) (0.3) (0.1) (0.8) (0.8) (0.4) (0.5) (0.4)	27.7 33.0 63.8 3.5 3.9 29.0 18.3	(1.8) (2.2) (1.8) (0.7) (0.7) (2.5)	23.5 34.1 57.3 1.7 1.0	(0.7) (1.8) (2.1) (2.3) (0.5)	26.0 32.1 51.7	(2.1) (2.3) (1.9)	20.3 31.6 48.2	(1.5) (1.8)	-7.4 -1.3	(1. (2.
7 2 8 9 7 4 8 3 0 5	(0.9) (0.8) (0.2) (0.2) (0.7) (0.4) (0.8) (0.3) (0.7) (0.5)	46.9 49.7 13.2 13.5 43.1 31.8 43.7 22.5	(0.3) (0.1) (0.8) (0.8) (0.4) (0.5) (0.4)	33.0 63.8 3.5 3.9 29.0 18.3	(2.2) (1.8) (0.7) (0.7) (2.5)	34.1 57.3 1.7 1.0	(2.1) (2.3) (0.5)	32.1 51.7	(2.3) (1.9)	31.6 48.2	(1.8)	-1.3	
7 2 8 9 7 4 8 3 0 5	(0.9) (0.8) (0.2) (0.2) (0.7) (0.4) (0.8) (0.3) (0.7) (0.5)	49.7 13.2 13.5 43.1 31.8 43.7 22.5	(0.3) (0.1) (0.8) (0.8) (0.4) (0.5) (0.4)	33.0 63.8 3.5 3.9 29.0 18.3	(2.2) (1.8) (0.7) (0.7) (2.5)	34.1 57.3 1.7 1.0	(2.1) (2.3) (0.5)	32.1 51.7	(2.3) (1.9)	31.6 48.2	(1.8)		
2 8 9 7 4 8 3 0 5 3	(0.8) (0.2) (0.2) (0.7) (0.4) (0.8) (0.3) (0.7) (0.5)	13.2 13.5 43.1 31.8 43.7 22.5	(0.1) (0.8) (0.8) (0.4) (0.5) (0.4)	63.8 3.5 3.9 29.0 18.3	(1.8) (0.7) (0.7) (2.5)	1.7 1.0	(2.3)	51.7	(1.9)	48.2		-15.6	
8 9 7 4 8 3 0 5 3	(0.2) (0.2) (0.7) (0.4) (0.8) (0.3) (0.7) (0.5)	13.2 13.5 43.1 31.8 43.7 22.5	(0.8) (0.8) (0.4) (0.5) (0.4)	3.5 3.9 29.0 18.3	(0.7) (0.7) (2.5)	1.7 1.0	(0.5)					-13.0	(2.
9 7 4 8 3 0 5 3	(0.2) (0.7) (0.4) (0.8) (0.3) (0.7) (0.5)	13.5 43.1 31.8 43.7 22.5	(0.8) (0.4) (0.5) (0.4)	3.9 29.0 18.3	(0.7) (2.5)			1	(0.5)	0.6	(0.3)	-3.0	(0.
7 4 8 3 0 5 3	(0.7) (0.4) (0.8) (0.3) (0.7) (0.5)	43.1 31.8 43.7 22.5	(0.4) (0.5) (0.4)	29.0 18.3	(2.5)		(0.4)	1.3	(0.4)	1.2	(0.4)	-2.7	(0.
4 8 3 0 5 3	(0.4) (0.8) (0.3) (0.7) (0.5)	31.8 43.7 22.5	(0.5) (0.4)	18.3		25.5	(1.7)	24.6	(1.4)	19.8	(1.5)	-9.2	(3.
8 3 0 5 3	(0.8) (0.3) (0.7) (0.5)	43.7 22.5	(0.4)		(1.0)	10.7	(0.8)	9.5	(0.7)	7.5	(0.8)	-10.8	(1.
3 0 5 3	(0.3) (0.7) (0.5)	22.5		26.8	(1.9)	26.9	(1.9)	28.7	(1.9)	20.8	(1.9)	-6.1	(2.
0 5 3	(0.7) (0.5)			7.7	(0.8)	7.2	(1.0)	4.1	(0.9)	2.6	(0.4)	-5.1	(0.
5 3	(0.5)		(0.4)	32.2	(1.7)	26.1	(1.4)	20.9	(1.5)	21.0	(1.3)	-11.2	(2.
3		34.1	(0.5)	11.8	(1.3)	13.8	(1.4)	14.1	(1.3)	14.3	(1.2)	2.4	(1.
		40.2	(0.7)	19.0	(1.4)	21.8	(1.9)	21.3	(2.3)	19.0	(1.6)	0.0	(2.
	(0.7)	40.6	(0.5)	23.8	(1.7)	22.8	(1.5)	18.2	(1.5)	18.4	(1.4)	-5.4	(2.
1	(1.0)	50.0	(0.0)	55.0	(2.0)	52.8	(2.2)	51.9	(2.0)	45.4	(2.1)	-9.6	(2.
4	(0.5)	33.0	(0.6)	20.0	(1.2)	14.0	(1.2)	10.1	(0.8)	5.8	(0.8)	-14.2	(1.
7	(0.7)	43.1	(0.4)	28.2	(1.5)	26.9	(1.8)	23.3	(1.6)	20.2	(1.3)	-8.1	(2.
0	(0.5)	28.6	(0.7)	11.0	(1.1)	8.1	(1.1)	9.3	(1.1)	7.7	(1.1)	-3.4	(1.
6	(0.6)	29.5	(0.9)	11.7	(1.6)	10.4	(1.8)	8.6	(1.2)	7.9	(1.2)	-3.8	(1.
0	(0.9)	49.9	(0.1)	42.1	(2.1)	45.5	(2.0)	49.6	(1.7)	50.6	(2.5)	8.5	(3.
5	(0.6)	43.6	(0.4)	31.3	(1.7)	27.6	(1.4)	22.1	(1.5)	21.0	(1.1)	-10.4	(2.
2	(0.8)	48.3	(0.2)	41.8	(2.0)	37.5	(2.2)	37.6	(1.8)	31.8	(1.4)	-10.1	(2.
- 7	(0.1)	36.1	(0.1)	23.4	(0.3)	20.4	(0.3)	18.8	(0.2)	16.5	(0.2)	-6.9	(0.
0	(0.6)	50.0	(0.0)	46.0	(1.0)	50.0	(1.9)	55.0	(1.8)	41.3	(1.6)	-4.7	(1.
3	(0.2)	15.0	(0.7)	4.5	(0.7)	2.8	(0.5)	1.1	(0.4)	0.8	(0.2)	-3.7	(0.
7	(0.9)	49.7	(0.1)	51.7	(2.1)	48.7	(1.9)	41.9	(1.6)	37.5	(1.8)	-14.3	(2.
8	(0.8)	49.6	(0.1)	45.2	(1.9)	47.1	(1.6)	43.8	(1.4)	39.3	(1.5)	-5.8	(2.
1	(0.9)	48.8	(0.2)	44.1	(2.2)	40.6	(1.9)	38.9	(1.9)	32.6	(1.7)	-11.6	(2.
3	(0.6)	32.9	(0.7)	18.2	(1.3)	12.6	(1.7)	12.7	(1.6)	5.8	(0.8)	-12.4	(1.
4	(0.6)	42.3	(0.4)	26.4	(1.1)	19.3	(1.1)	19.0	(1.2)	28.7	(1.2)	2.4	(1.
4	(0.9)	50.0	(0.0)	51.7	(2.6)	57.0	(3.1)	54.8	(2.1)	42.7	(2.1)	-9.1	(3.
													(0.
													(1.
													(1.
													(1.
													(2.
													(1.
													(2.
													(1.
3													(0.
3 2	(O Q)	46.4	(0.3)	33.7	(2.0)		(2.1)		(2.2)		(1.7)		(2.
3 2 4												1	(3.
3 2 4 0	(0.9)	40.7	(0.5)		(2.4)		(1.0)	21.6	(1.5)		(1.8)		(3.
3 2 4 0	(0.9) (0.7)		(0.0)	56.3	(1.8)	54.6	(1.9)	53.7	(2.0)	42.1	(1.8)	-14.2	(2.
	5 .3 .4 .6 .0 .3 .2 .3	3 (0.7) 4 (0.4) 6 (0.8) 0 (0.8) 3 (0.5) 2 (0.7) 3 (0.5) 2 (0.2) 4 (0.9) 0 (0.9)	3 (0.7) 41.6 4 (0.4) 24.4 6 (0.8) 49.1 0 (0.8) 49.0 3 (0.5) 49.0 2 (0.7) 42.2 3 (0.5) 35.0 2 (0.2) 17.5 4 (0.9) 46.4 0 (0.9) 46.2	3 (0.7) 41.6 (0.5) 4 (0.4) 24.4 (0.7) 6 (0.8) 49.1 (0.2) 0 (0.8) 49.0 (0.2) 3 (0.5) 49.0 (0.1) 2 (0.7) 42.2 (0.4) 3 (0.5) 35.0 (0.5) 2 (0.2) 17.5 (0.5) 4 (0.9) 46.4 (0.3) 0 (0.9) 46.2 (0.4) 0 (0.7) 40.7 (0.5) 5 (0.8) 50.0 (0.0)	3 (0.7) 41.6 (0.5) 29.7 4 (0.4) 24.4 (0.7) 6.1 6 (0.8) 49.1 (0.2) 61.9 0 (0.8) 49.0 (0.2) 31.1 3 (0.5) 49.0 (0.1) 44.9 2 (0.7) 42.2 (0.4) 21.9 3 (0.5) 35.0 (0.5) 14.4 2 (0.2) 17.5 (0.5) 6.6 4 (0.9) 46.4 (0.3) 33.7 0 (0.9) 46.2 (0.4) 32.4 0 (0.7) 40.7 (0.5) 18.4 5 (0.8) 50.0 (0.0) 56.3	3 (0.7) 41.6 (0.5) 29.7 (1.7) 4 (0.4) 24.4 (0.7) 6.1 (0.7) 6 (0.8) 49.1 (0.2) 61.9 (1.4) 0 (0.8) 49.0 (0.2) 31.1 (1.3) 3 (0.5) 49.0 (0.1) 44.9 (1.0) 2 (0.7) 42.2 (0.4) 21.9 (1.2) 3 (0.5) 35.0 (0.5) 14.4 (0.8) 2 (0.2) 17.5 (0.5) 6.6 (0.6) 4 (0.9) 46.4 (0.3) 33.7 (2.0) 0 (0.9) 46.2 (0.4) 32.4 (2.6) 0 (0.7) 40.7 (0.5) 18.4 (2.4)	3 (0.7) 41.6 (0.5) 29.7 (1.7) 22.0 4 (0.4) 24.4 (0.7) 6.1 (0.7) 4.0 6 (0.8) 49.1 (0.2) 61.9 (1.4) 54.9 0 (0.8) 49.0 (0.2) 31.1 (1.3) 41.6 3 (0.5) 49.0 (0.1) 44.9 (1.0) 39.9 2 (0.7) 42.2 (0.4) 21.9 (1.2) 24.5 3 (0.5) 35.0 (0.5) 14.4 (0.8) 16.7 2 (0.2) 17.5 (0.5) 6.6 (0.6) 3.1 4 (0.9) 46.4 (0.3) 33.7 (2.0) 32.8 0 (0.9) 46.2 (0.4) 32.4 (2.6) 33.1 0 (0.7) 40.7 (0.5) 18.4 (2.4) 14.8 5 (0.8) 50.0 (0.0) 56.3 (1.8)	3 (0.7) 41.6 (0.5) 29.7 (1.7) 22.0 (2.0) 4 (0.4) 24.4 (0.7) 6.1 (0.7) 4.0 (0.6) 6 (0.8) 49.1 (0.2) 61.9 (1.4) 54.9 (1.4) 0 (0.8) 49.0 (0.2) 31.1 (1.3) 41.6 (2.2) 3 (0.5) 49.0 (0.1) 44.9 (1.0) 39.9 (0.9) 2 (0.7) 42.2 (0.4) 21.9 (1.2) 24.5 (1.8) 3 (0.5) 35.0 (0.5) 14.4 (0.8) 16.7 (1.2) 2 (0.2) 17.5 (0.5) 6.6 (0.6) 3.1 (0.6) 4 (0.9) 46.4 (0.3) 33.7 (2.0) 32.8 (2.1) 0 (0.9) 46.2 (0.4) 32.4 (2.6) 33.1 (2.1) 0 (0.7) 40.7 (0.	3 (0.7) 41.6 (0.5) 29.7 (1.7) 22.0 (2.0) 21.3 4 (0.4) 24.4 (0.7) 6.1 (0.7) 4.0 (0.6) 4.2 6 (0.8) 49.1 (0.2) 61.9 (1.4) 54.9 (1.4) 61.7 0 (0.8) 49.0 (0.2) 31.1 (1.3) 41.6 (2.2) 45.0 3 (0.5) 49.0 (0.1) 44.9 (1.0) 39.9 (0.9) 42.1 2 (0.7) 42.2 (0.4) 21.9 (1.2) 24.5 (1.8) 20.5 3 (0.5) 35.0 (0.5) 14.4 (0.8) 16.7 (1.2) 13.5 2 (0.2) 17.5 (0.5) 6.6 (0.6) 3.1 (0.6) 1.9 4 (0.9) 46.4 (0.3) 33.7 (2.0) 32.8 (2.1) 32.7 0 (0.9) 46.2 (0.	3 (0.7) 41.6 (0.5) 29.7 (1.7) 22.0 (2.0) 21.3 (1.7) 4 (0.4) 24.4 (0.7) 6.1 (0.7) 4.0 (0.6) 4.2 (0.6) 6 (0.8) 49.1 (0.2) 61.9 (1.4) 54.9 (1.4) 61.7 (1.4) 0 (0.8) 49.0 (0.2) 31.1 (1.3) 41.6 (2.2) 45.0 (1.7) 3 (0.5) 49.0 (0.1) 44.9 (1.0) 39.9 (0.9) 42.1 (1.0) 2 (0.7) 42.2 (0.4) 21.9 (1.2) 24.5 (1.8) 20.5 (1.9) 3 (0.5) 35.0 (0.5) 14.4 (0.8) 16.7 (1.2) 13.5 (0.9) 2 (0.2) 17.5 (0.5) 6.6 (0.6) 3.1 (0.6) 1.9 (0.4) 4 (0.9) 46.4 (0.3) 33.7	3 (0.7) 41.6 (0.5) 29.7 (1.7) 22.0 (2.0) 21.3 (1.7) 16.1 4 (0.4) 24.4 (0.7) 6.1 (0.7) 4.0 (0.6) 4.2 (0.6) 11.1 6 (0.8) 49.1 (0.2) 61.9 (1.4) 54.9 (1.4) 61.7 (1.4) 60.0 0 (0.8) 49.0 (0.2) 31.1 (1.3) 41.6 (2.2) 45.0 (1.7) 41.2 3 (0.5) 49.0 (0.1) 44.9 (1.0) 39.9 (0.9) 42.1 (1.0) 34.4 2 (0.7) 42.2 (0.4) 21.9 (1.2) 24.5 (1.8) 20.5 (1.9) 26.0 3 (0.5) 35.0 (0.5) 14.4 (0.8) 16.7 (1.2) 13.5 (0.9) 12.7 2 (0.2) 17.5 (0.5) 6.6 (0.6) 3.1 (0.6) 1.9	3 (0.7) 41.6 (0.5) 29.7 (1.7) 22.0 (2.0) 21.3 (1.7) 16.1 (1.0) 4 (0.4) 24.4 (0.7) 6.1 (0.7) 4.0 (0.6) 4.2 (0.6) 11.1 (1.0) 6 (0.8) 49.1 (0.2) 61.9 (1.4) 54.9 (1.4) 61.7 (1.4) 60.0 (1.3) 0 (0.8) 49.0 (0.2) 31.1 (1.3) 41.6 (2.2) 45.0 (1.7) 41.2 (2.0) 3 (0.5) 49.0 (0.1) 44.9 (1.0) 39.9 (0.9) 42.1 (1.0) 34.4 (0.8) 3 (0.5) 35.0 (0.5) 14.4 (0.8) 16.7 (1.2) 13.5 (0.9) 26.0 (2.1) 3 (0.5) 35.0 (0.5) 14.4 (0.8) 16.7 (1.2) 13.5 (0.9) 12.7 (0.9) 2 (0.2)	3 (0.7) 41.6 (0.5) 29.7 (1.7) 22.0 (2.0) 21.3 (1.7) 16.1 (1.0) -13.6 4 (0.4) 24.4 (0.7) 6.1 (0.7) 4.0 (0.6) 4.2 (0.6) 11.1 (1.0) 5.1 6 (0.8) 49.1 (0.2) 61.9 (1.4) 54.9 (1.4) 61.7 (1.4) 60.0 (1.3) -1.8 0 (0.8) 49.0 (0.2) 31.1 (1.3) 41.6 (2.2) 45.0 (1.7) 41.2 (2.0) 10.1 3 (0.5) 49.0 (0.1) 44.9 (1.0) 39.9 (0.9) 42.1 (1.0) 34.4 (0.8) -10.5 2 (0.7) 42.2 (0.4) 21.9 (1.2) 24.5 (1.8) 20.5 (1.9) 26.0 (2.1) 4.0 3 (0.5) 35.0 (0.5) 14.4 (0.8) 16.7 (1.2) 1

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Notes: Values that are statistically significant are indicated in bold (see Annex A3). Only countries and economies with data from the computer-based questionnaire are shown.

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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Table II.3.4 Skipping a school day, science performance and school characteristics

Res	ults based on stude	nts' self-r													
			Percent	tage of stu			skipping a	whole sch	ool day at	least once	in the two		ior to the P	ISA test	
		p 1	•••			location						By type	of school		
		(few	a or village er than people)	(3 (own 000 to 0 people)	(o	ity ver) people)	City - r	ural area	Pu	blic	Pr	ivate	Private	- public
		%	S.E.	%	S.E.	%	S.E.	% dif.	S.E.	%	S.E.	%	S.E.	% dif.	S.E.
OECD	Australia	28.4	(2.6)	30.5	(1.0)	28.0	(8.0)	-0.4	(2.7)	30.2	(0.8)	26.8	(8.0)	-3.4	(1.2)
0E	Austria	11.1	(1.9)	9.8	(0.5)	12.5	(1.1)	1.5	(2.3)	10.8	(0.5)	11.0	(1.7)	0.2	(1.8)
	Belgium	3.5	(1.1)	5.9	(0.4)	9.6	(1.0)	6.1	(1.5)	W	W	w	W	W	W
	Canada	25.6	(2.2)	19.7	(0.8)	15.3	(0.8)	-10.3	(2.4)	18.8	(0.6)	8.7	(1.7)	-10.1	(1.8)
	Chile	17.6	(5.8)	9.8	(1.0)	8.9	(0.8)	-8.7	(5.8)	11.0	(1.1)	8.3	(0.7)	-2.7 0.0	(1.3)
	Czech Republic Denmark	7.0 17.6	(1.2)	8.4 17.0	(0.6)	7.6 16.9	(0.9)	-0.7	(1.4)	8.1 17.8	(0.5)	8.1	(1.6)	-2.8	(1.7)
	Estonia	18.2	(1.8)	22.4	(1.3)	27.6	(1.5)	9.5	(2.5)	23.2	(0.8)	20.2	(4.7)	-3.0	(4.9)
	Finland	38.5	(2.6)	36.5	(1.3)	36.4	(1.5)	-2.1	(3.2)	36.6	(0.9)	40.1	(3.4)	3.5	(3.6)
	France	9.5	(2.5)	11.3	(0.9)	9.6	(1.0)	0.1	(2.8)	11.5	(0.7)	6.6	(0.9)	-4.8	(1.1)
	Germany	5.5	(1.4)	8.3	(0.5)	10.2	(1.1)	4.7	(1.8)	8.8	(0.5)	7.5	(1.1)	-1.3	(1.2)
	Greece	21.2	(3.0)	20.6	(1.1)	17.9	(1.2)	-3.3	(3.4)	20.0	(0.9)	14.0	(2.5)	-6.0	(2.6)
	Hungary	14.9	(4.6)	8.5	(0.7)	7.8	(0.7)	-7.1	(4.8)	8.7	(0.5)	6.5	(0.9)	-2.2	(1.1)
	Iceland	4.1	(0.9)	3.8	(0.4)	5.8	(0.9)	1.7	(1.2)	4.3	(0.4)	m	m	m	m
	Ireland	25.8	(1.5)	25.0	(1.1)	22.0	(1.6)	-3.7	(2.3)	24.9	(1.3)	24.0	(0.9)	-1.0	(1.6)
	Israel	23.5	(2.3)	34.2	(1.1)	34.3	(1.6)	10.8	(2.8)	m	m	m	m	m	m
	Italy	54.5	(4.5)	56.1	(1.1)	51.1	(2.3)	-3.4	(5.0)	54.5	(0.9)	50.4	(4.9)	-4.1	(4.9)
	Japan	m	m	2.0	(0.5)	1.7	(0.3)	m	m	1.9	(0.3)	1.5	(0.3)	-0.4	(0.4)
	Korea	m	m	0.9	(0.4)	2.0	(0.3)	m	m	2.2	(0.3)	1.3	(0.3)	-0.8	(0.5)
	Latvia	28.2	(2.3)	23.0	(1.0)	24.8	(1.2)	-3.4	(2.7)	24.7	(0.8)	23.3	(4.7)	-1.4	(4.8)
	Luxembourg	m	m	12.8	(0.6)	9.7	(0.6)	m	m	11.3	(0.4)	12.1	(1.0)	0.8	(1.1)
	Mexico	30.7	(2.5)	23.2	(1.3)	26.0	(1.2)	-4.6	(2.7)	25.5	(8.0)	27.9	(2.7)	2.4	(2.8)
	Netherlands	m	m	5.4	(0.6)	4.4	(0.7)	m	m	5.1	(8.0)	5.0	(0.6)	-0.1	(1.0)
	New Zealand	29.9	(5.5)	25.9	(1.4)	23.7	(0.9)	-6.3	(5.6)	25.2	(0.8)	16.6	(1.9)	-8.6	(2.1)
	Norway	12.2	(1.3)	14.1	(0.6)	13.3	(1.3)	1.1	(1.8)	13.5	(0.5)	15.0	(7.7)	1.5	(7.7)
	Poland	18.2	(1.3)	19.5	(1.5)	24.1	(2.0)	5.9	(2.4)	20.5	(0.9)	12.7	(3.1)	-7.8	(3.2)
	Portugal	31.4	(1.3)	20.5	(0.7)	20.2	(1.5)	-11.1	(2.1)	20.8	(0.7)	20.4	(1.9)	-0.4	(2.0)
	Slovak Republic Slovenia	54.3 9.9	(2.5)	51.0 12.5	(1.2)	47.8 12.1	(2.0)	-6.5 2.2	(3.4)	51.8 12.4	(1.0)	46.3	(3.1)	-5.5 -5.8	(3.2)
	Spain	18.8	(2.9)	24.8	(1.0)	25.0	(1.1)	6.2	(3.2)	26.0	(0.9)	21.7	(1.1)	-4.3	(1.5)
	Sweden	10.0	(1.7)	8.7	(0.5)	9.4	(1.1)	-0.6	(2.1)	8.4	(0.4)	11.7	(1.7)	3.3	(1.7)
	Switzerland	6.4	(1.1)	9.6	(0.8)	11.4	(1.6)	4.9	(1.9)	9.7	(0.7)	8.9	(2.6)	-0.7	(2.7)
	Turkey	45.1	(6.0)	46.4	(1.3)	47.2	(1.2)	2.2	(6.1)	46.9	(0.9)	46.3	(2.7)	-0.6	(2.9)
	United Kingdom	26.5	(1.5)	24.4	(0.9)	28.9	(1.6)	2.4	(2.4)	26.0	(0.8)	22.6	(1.9)	-3.4	(2.2)
	United States	35.4	(2.8)	35.7	(1.0)	39.6	(1.3)	4.2	(3.1)	38.1	(0.8)	26.6	(2.0)	-11.5	(2.2)
	OECD average	22.0	(0.5)	19.7	(0.2)	19.8	(0.2)	-0.3	(0.6)	19.8	(0.1)	17.6	(0.5)	-2.7	(0.5)
	D	F2 F	(2.7)	47.0	(1.1)	40.1	(1.2)	. 2.4	(4.0)	FO.4	(0,0)	20.0	(1.6)	11.6	(1.0)
ner	Brazil B-S-J-G (China)	52.5 2.1	(3.7) (0.8)	47.8	(1.1)	49.1 1.2	(1.2)	-3.4	(4.0)	50.4	(0.9)	38.8	(1.6)	-11.6	(1.8)
Partners	Bulgaria	46.1	(6.5)	2.9 46.2	(0.4)	42.5	(0.3)	-0.9 -3.7	(6.7)	2.3 45.0	(0.3)	2.5 m	(0.7) m	0.2 m	(0.7) m
_	Colombia	44.7	(2.5)	42.9	(1.5)	43.9	(1.4)	-0.7	(2.7)	43.6	(1.1)	44.4	(1.6)	0.8	(1.9)
	Costa Rica	42.7	(2.3)	37.4	(1.0)	42.1	(2.4)	-0.7	(3.3)	38.5	(0.9)	43.4	(2.5)	4.9	(2.6)
	Croatia	m	m	13.1	(0.8)	11.1	(1.1)	m	m	12.3	(0.6)	13.2	(3.3)	0.9	(3.4)
	Cyprus*	23.2	(2.4)	22.2	(0.6)	25.4	(1.1)	2.2	(2.6)	21.3	(0.6)	33.8	(1.8)	12.5	(1.9)
	Dominican Republic	50.2	(2.9)	52.5	(1.4)	47.9	(1.7)	-2.4	(3.4)	52.8	(1.1)	46.2	(1.4)	-6.6	(1.7)
	Hong Kong (China)	m	m	m	m	3.5	(0.2)	m	m	2.7	(0.8)	3.6	(0.3)	0.9	(0.8)
	Lithuania	27.8	(1.9)	21.1	(1.0)	20.5	(1.1)	-7.4	(2.2)	22.4	(0.8)	17.7	(4.4)	-4.7	(4.6)
	Macao (China)	m	m	m	m	6.4	(0.4)	m	m	m	m	6.2	(0.4)	m	m
	Montenegro	m	m	58.6	(0.9)	61.8	(1.2)	m	m	59.6	(0.8)	m	m	m	m
	Peru	33.0	(1.3)	42.5	(1.1)	41.1	(3.1)	8.1	(3.3)	37.9	(0.9)	44.5	(1.7)	6.6	(1.9)
	Qatar	52.9	(2.2)	41.3	(0.7)	38.2	(0.7)	-14.6	(2.3)	51.3	(0.7)	26.0	(0.6)	-25.4	(0.9)
	Russia	20.7	(1.8)	21.4	(1.5)	25.2	(0.9)	4.5	(2.0)	23.2	(0.7)	m	m	m	m
	Singapore	m	m	m	m	14.5	(0.6)	m	m	14.1	(0.5)	17.2	(3.1)	3.1	(3.2)
	Chinese Taipei	m	m	3.9	(0.4)	2.7	(0.3)	m	m	2.3	(0.2)	4.9	(0.4)	2.6	(0.5)
	Thailand	36.4	(2.7)	30.4	(1.3)	29.9	(1.9)	-6.4	(3.5)	30.6	(0.9)	36.6	(3.2)	6.0	(3.3)
	Tunisia	44.2	(4.4)	29.9	(1.3)	30.5	(2.1)	-13.8	(4.9)	30.1	(1.0)	51.3	(19.8)	21.2	(19.8)
	United Arab Emirates	14.0	(3.0)	17.0	(1.5)	23.7	(1.1)	9.7	(3.3)	13.7	(0.8)	26.1	(1.3)	12.3	(1.6)
_	Uruguay	59.5	(6.7)	52.4	(1.0)	49.3	(1.6)	-10.2	(6.9)	54.5	(0.9)	35.9	(2.1)	-18.5	(2.3)
	Malaysia**	10.2	(1.3)	10.5	(1.0)	15.5	(1.4)	5.2	(2.0)	12.0	(0.7)	18.7	(4.4)	6.7	(4.5)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS).

Notes: Values that are statistically significant are indicated in bold (see Annex A3).
Only countries and economies with data from the computer-based questionnaire are shown.

*See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 3/3]

Table II.3.4 Skipping a school day, science performance and school characteristics

	uits based on studer			tage of stu	ıdents who	reported	skipping a	whole sch	ool day at	east once	in the two	weeks pric	or to the Pl	SA test	
					ation level			Befo	re account nools' socio	ing for stu	dents'	Afte	r accounti	ng for stud	lents'
		educ	econdary cation ED 2)	Upper s	secondary cation (ED 3)	ISCED 3	- ISCED 2	Change score wh skipped scho	in science en students I a whole ol day st once	Explained in sto	•	Change i score whe skipped school	n science n students a whole	Explained in sto perfor	-
		%	S.E.	%	S.E.	% dif.	S.E.	Score dif	. S.E.	%	S.E.	Score dif.	S.E.	%	S.E.
9	Australia	29.2	(0.6)	27.5	(1.4)	-1.7	(1.6)	-35	(2.5)	2.4	(0.4)	-27	(2.3)	17.8	(1.1)
OECD	Austria	17.5	(5.4)	10.8	(0.5)	-6.8	(5.5)	-32	(5.4)	1.1	(0.4)	-24	(4.6)	31.9	(1.8)
0	Belgium	14.7	(2.2)	6.5	(0.3)	-8.1	(2.3)	-65	(5.2)	3.0	(0.5)	-36	(3.7)	35.6	(1.9)
	Canada	14.1	(1.1)	18.3	(0.5)	4.1	(1.2)	-39	(2.8)	2.6	(0.4)	-31	(2.7)	13.5	(0.9)
	Chile	21.2	(4.9)	8.6	(0.5)	-12.7	(4.9)	-43	(5.4)	2.1	(0.6)	-32	(4.8)	27.3	(1.6)
	Czech Republic	7.3	(0.6)	8.9	(0.7)	1.6	(0.9)	-43	(5.5)	1.6	(0.4)	-29	(4.6)	32.1	(1.9)
	Denmark	16.9	(0.6)	24.5	(7.5)	7.5	(7.5)	-47	(3.6)	3.9	(0.6)	-40	(3.4)	14.3	(1.3)
	Estonia	22.6	(0.7)	48.5	(6.5)	25.9	(6.5)	-42	(3.7)	3.9	(0.7)	-33	(3.6)	13.6	(1.3)
	Finland	36.7	(0.9)	m	m	m	m	-23	(3.1)	1.4	(0.4)	-20	(3.0)	10.9	(1.1)
	France	18.4	(1.5)	8.7	(0.5)	-9.7	(1.6)	-70	(5.8)	4.9	(0.8)	-36	(4.3)	38.5	(1.8)
	Germany	8.9	(0.5)	7.9	(2.0)	-1.1	(2.1)	-50	(6.5)	2.1	(0.6)	-36	(4.8)	34.0	(1.9)
	Greece	36.3	(4.9)	18.8	(0.8)	-17.5	(5.0)	-46	(4.1)	4.1	(0.7)	-37	(3.3)	26.4	(2.5)
	Hungary	13.5	(2.8)	7.9	(0.4)	-5.6	(2.8)	-64	(5.4)	3.4	(0.6)	-29	(4.4)	44.3	(1.9)
	Iceland	4.5	(0.4)	m	m	m	m	-68	(8.9)	2.4	(0.6)	-61	(9.1)	7.3	(0.9)
	Ireland	20.8	(0.8)	30.4	(1.4)	9.6	(1.5)	-21	(3.4)	1.1	(0.3)	-15	(2.9)	15.3	(1.3)
	Israel	33.5	(2.1)	32.6	(1.0)	-0.9	(2.4)	-15	(3.9)	0.4	(0.2)	-14	(2.9)	23.6	(2.3)
	Italy	58.8	(4.9)	55.2	(0.8)	-3.7	(5.0)	-31	(3.3)	2.9	(0.6)	-21	(2.7)	24.5	(2.2)
	Japan	m	m	1.8	(0.2)	m	m	-78	(10.2)	1.2	(0.4)	-48	(9.2)	28.4	(2.3)
	Korea	2.8	(0.8)	1.8	(0.2)	-1.0	(0.8)	-96	(10.1)	1.9	(0.5)	-75	(9.3)	18.9	(2.1)
	Latvia	24.6	(0.7)	27.9	(4.1)	3.3	(4.0)	-44	(3.0)	5.3	(0.7)	-38	(2.9)	16.4	(1.5)
	Luxembourg	14.5	(0.6)	7.5	(0.5)	-7.0	(0.8)	-54	(4.2)	2.9	(0.5)	-34	(3.9)	35.1	(1.0)
	Mexico	35.0	(1.6)	20.0	(0.8)	-15.0	(1.8)	-24	(2.6)	2.2	(0.5)	-23	(2.3)	18.7	(2.0)
	Netherlands	6.3	(0.4)	3.1	(0.5)	-3.3	(0.6)	-66	(6.3)	2.3	(0.4)	-47	(6.0)	36.5	(3.2)
	New Zealand	29.0	(2.9)	24.7	(0.7)	-4.2	(2.9)	-41	(4.2)	3.0	(0.6)	-29	(3.7)	19.8	(1.5)
	Norway	13.5	(0.5)	m	m	m	(2.5) m	-52	(4.0)	3.5	(0.5)	-50	(3.7)	11.8	(1.0)
	Poland	20.2	(0.9)	m	m	m	m	-33	(3.8)	2.2	(0.5)	-30	(3.5)	17.4	(1.6)
	Portugal	30.5	(1.1)	15.7	(0.8)	-14.8	(1.3)	-41	(3.3)	3.3	(0.5)	-33	(3.2)	21.7	(1.9)
	Slovak Republic	52.8	(1.4)	49.7	(1.3)	-3.0	(1.8)	-26	(2.8)	1.9	(0.4)	-19	(2.4)	27.9	(2.0)
	Slovenia	18.6	(2.7)	12.1	(0.5)	-6.5	(2.7)	-73	(4.1)	6.6	(0.7)	-47	(3.4)	37.7	(1.3)
	Spain	24.7	(0.7)	m	(0.5) m	m	(2.7) m	-36	(2.7)	3.1	(0.5)	-29	(2.5)	16.3	(1.2)
	Sweden	9.1	(0.5)	4.3	(3.0)	-4.8	(3.0)	-67	(5.2)	3.6	(0.6)	-55	(4.7)	18.7	(1.6)
	Switzerland	11.0	(0.8)	4.5	(0.6)	-6.4	(1.0)	-51	(5.7)	2.3	(0.5)	-41	(5.3)	26.5	(1.9)
	Turkey	38.8	(7.5)	47.2	(0.9)	8.4	(7.6)	5	(3.2)	0.1	(0.1)	-1	(2.4)	26.6	(4.1)
	United Kingdom	14.4	(3.1)	25.5	(0.6)	11.1		-35	(3.6)	2.4	(0.1)	-25	(2.4)	18.9	(1.6)
	United States	45.9		36.2		-9.6	(3.1)	-33		2.4		-23			
	United States	45.9	(2.3)	36.2	(0.8)	-9.6	(2.4)	-29	(2.7)	2.1	(0.4)	-23	(2.6)	15.4	(1.5)
ı	OECD average	22.5	(0.4)	19.9	(0.4)	-2.5	(0.7)	-45	(0.8)	2.7	(0.1)	-33	(0.7)	23.5	(0.3)
S	Brazil	52.7	(1.1)	46.8	(0.7)	-5.9	(1.4)	-11	(2.2)	0.4	(0.2)	-8	(2.0)	23.2	(2.1)
Partners	B-S-J-G (China)	3.1	(0.3)	1.0	(0.2)	-2.2	(0.4)	-107	(10.7)	2.4	(0.5)	-71	(9.4)	35.7	(3.0)
ā	Bulgaria	52.6	(8.9)	44.5	(1.0)	-8.1	(9.0)	-30	(4.1)	2.3	(0.6)	-17	(2.9)	38.1	(2.7)
	Colombia	51.6	(1.1)	38.7	(1.1)	-12.9	(1.4)	-19	(2.4)	1.4	(0.4)	-16	(2.2)	22.2	(2.4)
	Costa Rica	43.1	(1.3)	34.7	(1.3)	-8.4	(1.9)	-20	(2.3)	2.0	(0.5)	-15	(1.9)	23.4	(2.0)
	Croatia	m	m	12.3	(0.6)	m	m	-61	(3.9)	5.1	(0.6)	-45	(3.5)	28.6	(1.9)
	Cyprus*	29.3	(2.3)	23.0	(0.6)	-6.3	(2.4)	-42	(3.6)	3.7	(0.6)	-45	(3.3)	21.1	(1.0)
	Dominican Republic	58.9	(2.1)	49.6	(1.0)	-9.3	(2.3)	-19	(3.4)	1.6	(0.5)	-11	(2.4)	25.1	(3.1)
	Hong Kong (China)	4.1	(0.5)	3.3	(0.3)	-0.8	(0.6)	-59	(8.8)	1.8	(0.5)	-54	(8.1)	14.4	(1.7)
	Lithuania	22.3	(0.7)	m	m	m	m	-52	(3.4)	5.8	(0.8)	-41	(3.3)	24.7	(2.2)
	Macao (China)	7.5	(0.6)	5.4	(0.4)	-2.1	(0.8)	-46	(5.8)	1.9	(0.5)	-51	(5.7)	4.5	(0.7)
	Montenegro	61.5	(5.2)	59.6	(0.8)	-1.9	(5.3)	-8	(2.7)	0.2	(0.2)	-9	(2.5)	17.1	(0.9)
	Peru	45.9	(1.4)	38.1	(0.9)	-7.8	(1.6)	-6	(2.3)	0.2	(0.1)	-12	(2.0)	28.7	(2.2)
	Qatar	42.4	(0.9)	39.7	(0.6)	-2.7	(1.1)	-41	(2.0)	4.2	(0.4)	-35	(1.9)	17.5	(0.7)
	Russia	22.7	(0.7)	26.6	(1.7)	3.9	(1.8)	-12	(3.2)	0.4	(0.2)	-13	(2.8)	10.2	(1.8)
	Singapore	12.9	(3.5)	14.3	(0.5)	1.4	(3.7)	-29	(3.8)	1.0	(0.3)	-24	(3.5)	26.8	(1.5)
	Chinese Taipei	2.9	(0.3)	3.3	(0.3)	0.4	(0.4)	-120	(6.8)	4.5	(0.6)	-86	(6.1)	30.5	(2.4)
	Thailand	29.9	(1.4)	31.9	(1.1)	2.0	(1.8)	-26	(2.7)	2.3	(0.5)	-22	(2.6)	19.7	(2.9)
	Tunisia	42.0	(1.7)	25.5	(1.0)	-16.5	(2.0)	-22	(2.9)	2.4	(0.6)	-19	(2.7)	20.8	(3.1)
	United Arab Emirates	23.8	(1.5)	20.5	(0.8)	-3.2	(1.7)	0	(4.6)	0.0	(0.0)	-8	(4.1)	14.5	(1.9)
	Uruguay	58.8	(1.0)	47.5	(1.0)	-11.3	(1.2)	-13	(2.8)	0.6	(0.2)	-2	(2.4)	25.9	(1.8)
-	, , , , , , , , , , , , , , , , , , ,	-													
	Malaysia**	29.3	(3.9)	11.8	(0.6)	-17.5	(3.9)	-20	(4.6)	0.8	(0.4)	-24	(3.7)	19.2	(2.4)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Notes: Values that are statistically significant are indicated in bold (see Annex A3). Only countries and economies with data from the computer-based questionnaire are shown.

*See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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Table II.3.8 Truancy at school and science performance

	Change in science score per perce	entage-point increase in the share of in the two weeks pr	students at school who had skipped a ior to the PISA test	a whole school day at least once
	Before accounting for respondent's socio-econor		After accounting for respondent's tr socio-econor	
	Score dif.	S.E.	Score dif.	S.E.
Australia	1.1	(0.1)	-0.1	(0.1)
Austria Austria	-2.5	(0.5)	-1.4	(0.3)
Belgium	-5.5	(0.3)	-1.8	(0.3)
Canada	-1.4	(0.2)	-0.6	(0.1)
Chile	-2.9	(0.3)	-1.4	(0.3)
Czech Republic	-2.6	(0.3)	-1.1	(0.3)
Denmark	-1.3	(0.2)	-0.6	(0.2)
Estonia	-1.2	(0.1)	-0.7	(0.1)
Finland	-0.4	(0.2)	0.2	(0.1)
France	-3.8	(0.3)	-1.3	(0.2)
Germany	-3.0	(0.5)	-0.9	(0.3)
Greece	-2.6	(0.3)	-1.4	(0.2)
Hungary	-3.5	(0.5)	-0.6	(0.4)
Iceland	-1.4	(0.4)	-0.5	(0.4)
Ireland	-1.0	(0.3)	-0.1	(0.2)
Israel	-0.6	(0.5)	-0.1	(0.2)
Italy	-0.6	(0.2)	-0.5 -1.2	(0.1)
,				
Japan	-6.7	(1.2)	-2.3	(0.9)
Korea	-7.3	(1.0)	-3.9	(0.9)
Latvia	-1.3	(0.2)	-0.5	(0.1)
Luxembourg	-7.2	(0.2)	-1.4	(0.2)
Mexico	-1.2	(0.2)	-0.9	(0.1)
Netherlands	-7.5	(0.7)	-4.2	(0.6)
New Zealand	-2.0	(0.2)	-0.7	(0.2)
Norway	-0.5	(0.3)	-0.3	(0.2)
Poland	-0.7	(0.3)	-0.3	(0.2)
Portugal	-2.3	(0.3)	-1.2	(0.2)
Slovak Republic	-1.0	(0.2)	-0.2	(0.1)
Slovenia	-4.1	(0.1)	-1.6	(0.1)
Spain	-1.0	(0.2)	-0.2	(0.2)
Sweden	-1.8	(0.4)	-0.6	(0.3)
Switzerland	-2.9	(0.3)	-1.9	(0.3)
Turkey	0.8	(0.4)	0.0	(0.3)
United Kingdom	-1.6	(0.3)	-0.1	(0.2)
United States	-1.4	(0.3)	-0.4	(0.2)
OECD average	-2.5	(0.1)	-1.0	(0.1)
Brazil	-0.8	(0.1)	-0.6	(0.1)
Brazil B-S-J-G (China) Bulgaria	-10.5	(1.6)	-4.0	(1.3)
	-2.9	(0.4)	-1.0	(0.3)
Colombia	-1.3	(0.2)	-0.6	(0.2)
Costa Rica	-1.3	(0.2)	-0.5	(0.1)
Croatia	-3.8	(0.3)	-1.9	(0.2)
Cyprus*	-0.9	(0.1)	-0.7	(0.1)
Dominican Republic	-1.3	(0.2)	-0.7	(0.2)
Hong Kong (China)	-6.2	(0.9)	-4.8	(0.6)
Lithuania	-2.3	(0.2)	-1.2	(0.2)
Macao (China)	-2.4	(0.2)	-3.7	(0.2)
Montenegro	-0.3	(0.2)	-0.2	(0.2)
Peru	0.5	(0.2)	-0.3	(0.1)
Qatar	-2.4	(0.0)	-1.8	(0.1)
Russia	-0.5	(0.2)	-0.6	(0.2)
Singapore	-2.3	(0.2)	-1.4	(0.2)
Chinese Taipei	-7.7	(0.6)	-2.4	(0.5)
Thailand	-7.7		-2.4	
Tunisia	-1.4	(0.2)	-0.8 -0.9	(0.2)
				(0.2)
United Arab Emirates	0.7	(0.2)	0.2	(0.2)
Uruguay	-1.6	(0.2)	-0.3	(0.1)
Malaysia**	-0.1	(0.3)	-0.4	(0.2)



Table II.3.9 Truancy at school and disciplinary climate in science lessons

	Change in the index of di	sciplinam, climato in science lessons p	or nercentage point increase in the	chana of students at school
	Change in the index of di- who ha	sciplinary climate in science lessons p d skipped a whole school day at least	once in the two weeks prior to the	PISA test
		s truancy, and students' and schools' omic profile ¹	After accounting for respondent's socio-econo	truancy, and students' and schools omic profile
	Unit dif.	S.E.	Unit dif.	S.E.
Australia	-0.005	(0.001)	0.000	(0.001)
Austria	-0.025	(0.004)	-0.021	(0.004)
Belgium	-0.011	(0.003)	-0.005	(0.004)
Canada	-0.006	(0.001)	-0.002	(0.001)
Chile	-0.015	(0.003)	-0.012	(0.003)
Czech Republic	-0.024	(0.003)	-0.017	(0.003)
Denmark	-0.013	(0.003)	-0.010	(0.003)
Estonia	0.000	(0.001)	0.001	(0.001)
Finland	-0.007	(0.002)	-0.005	(0.002)
France	-0.012	(0.002)	-0.003	(0.002)
Germany	-0.015	(0.003)	-0.008	(0.002)
Greece	-0.015	(0.002)	-0.010	(0.002)
Hungary	-0.009	(0.004)	-0.001	(0.004)
Iceland	-0.018	(0.004)	-0.011	(0.003)
Ireland	-0.006	(0.002)	-0.003	(0.003)
Israel	-0.009	(0.003)	-0.007	(0.002)
Italy	-0.003	(0.001)	0.002	(0.001)
Japan	-0.050	(0.009)	-0.033	(0.009)
Korea	-0.040	(0.005)	-0.032	(0.006)
Latvia	-0.006	(0.002)	-0.004	(0.002)
Luxembourg	-0.025	(0.002)	-0.012	(0.003)
Mexico	-0.008	(0.002)	-0.006	(0.002)
Netherlands	-0.017	(0.003)	-0.012	(0.003)
New Zealand	-0.007	(0.002)	-0.002	(0.002)
Norway	-0.009	(0.003)	-0.006	(0.003)
Poland	-0.012	(0.002)	-0.010	(0.002)
Portugal	-0.006	(0.003)	-0.005	(0.003)
Slovak Republic	-0.007	(0.002)	-0.004	(0.002)
Slovenia	-0.017	(0.002)	-0.008	(0.003)
Spain	-0.005	(0.003)	-0.003	(0.003)
Sweden	-0.014	(0.004)	-0.009	(0.004)
Switzerland	-0.013	(0.004)	-0.007	(0.004)
Turkey	-0.007	(0.002)	-0.005	(0.002)
United Kingdom	-0.003	(0.002)	0.001	(0.002)
United States	-0.007	(0.002)	-0.003	(0.002)
	-0.013		-0.003	
OECD average		(0.001)		(0.001)
Brazil	-0.008	(0.001)	-0.007	(0.001)
B-S-J-G (China)	-0.032	(0.007)	-0.014	(0.007)
Bulgaria	-0.008	(0.002)	-0.004	(0.002)
Colombia	-0.003	(0.002)	-0.002	(0.002)
Costa Rica	-0.001	(0.002)	0.000	(0.002)
Croatia	-0.023	(0.001)	-0.016	(0.002)
Cyprus*	-0.003	(0.001)	-0.001	(0.001)
Dominican Republic	-0.007	(0.002)	-0.006	(0.002)
Hong Kong (China)	-0.039	(0.006)	-0.034	(0.006)
Lithuania	-0.012	(0.001)	-0.008	(0.002)
Macao (China)	-0.014	(0.002)	-0.014	(0.003)
Montenegro	-0.005	(0.002)	-0.004	(0.002)
Peru	-0.001	(0.001)	0.001	(0.001)
Qatar	-0.013	(0.000)	-0.010	(0.001)
Russia	-0.014	(0.003)	-0.011	(0.003)
Singapore	-0.012	(0.002)	-0.007	(0.001)
Chinese Taipei	-0.012	(0.002)	-0.007	(0.001)
•				
Thailand	-0.003	(0.001)	-0.002	(0.001)
Tunisia	-0.003	(0.001)	-0.003	(0.001)
United Arab Emirates		(0.001)	-0.001	(0.001)
Uruguay	-0.003	(0.001)	0.001	(0.002)
Malaysia**			-0.010	

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Notes: Values that are statistically significant are indicated in bold (see Annex A3). Only countries and economies with data from the computer-based questionnaire are shown.

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/3]

Table II.3.11 Index of disciplinary climate in science classes, science performance and school characteristics

			All stu	idents					By sch	ool socio-	economic	profile ¹			
		Ave	rage	Varia	ability	Bottom	quarter	Second	quarter	Third (quarter	Тор q	uarter		bottom arter
		Mean index	S.E.	S.D.	S.E.	Mean index	S.E.	Mean index	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.E.
9	Australia	-0.19	(0.02)	1.02	(0.01)	-0.38	(0.04)	-0.30	(0.04)	-0.18	(0.03)	0.04	(0.03)	0.42	(0.04)
OECD	Austria	0.21	(0.04)	1.09	(0.02)	0.04	(0.06)	0.14	(0.10)	0.30	(80.0)	0.30	(0.06)	0.26	(0.09)
0	Belgium	-0.16	(0.02)	1.02	(0.01)	-0.21	(0.05)	-0.27	(0.06)	-0.11	(0.03)	-0.06	(0.04)	0.15	(0.06)
	Canada Chile	-0.01 -0.11	(0.02)	1.02 0.88	(0.01)	-0.12 -0.22	(0.04) (0.05)	-0.03 -0.18	(0.05) (0.06)	0.02	(0.03) (0.07)	0.10 -0.06	(0.03)	0.22 0.16	(0.05)
	Czech Republic	-0.11	(0.03)	1.03	(0.01)	-0.22	(0.05)	-0.16	(0.06)	-0.17	(0.07)	-0.06	(0.03)	0.10	(0.07)
	Denmark	0.03	(0.02)	0.95	(0.01)	-0.11	(0.05)	0.00	(0.05)	0.08	(0.06)	0.15	(0.05)	0.26	(0.07)
	Estonia	-0.04	(0.02)	0.91	(0.01)	0.01	(0.05)	-0.15	(0.06)	-0.04	(0.04)	0.03	(0.04)	0.02	(0.07)
	Finland	-0.10	(0.02)	0.88	(0.01)	-0.10	(0.05)	-0.14	(0.06)	-0.12	(0.05)	-0.03	(0.05)	0.07	(0.07)
	France	-0.27	(0.02)	0.96	(0.01)	-0.55	(0.05)	-0.34	(0.04)	-0.20	(0.04)	-0.08	(0.04)	0.48	(0.07)
	Germany	0.05	(0.02)	0.94	(0.01)	-0.17	(0.05)	-0.05	(0.04)	0.14	(0.04)	0.21	(0.04)	0.38	(0.06)
	Greece	-0.23	(0.03)	0.85	(0.01)	-0.49	(0.07)	-0.26	(0.05)	-0.09	(0.04)	-0.09	(0.05)	0.39	(0.07)
	Hungary	-0.08	(0.02)	0.99	(0.01)	-0.33	(0.06)	-0.15	(0.06)	-0.01	(0.05)	0.15	(0.05)	0.48	(0.08)
	Iceland	0.01	(0.02)	0.95	(0.01)	-0.09	(0.04)	-0.07	(0.03)	0.04	(0.03)	0.18	(0.03)	0.27	(0.05)
	Ireland	0.09	(0.02)	1.03	(0.01)	0.00	(0.06)	0.09	(0.05)	0.11	(0.06)	0.17	(0.05)	0.17	(0.08)
	Israel	-0.03	(0.03)	1.07	(0.01)	0.02	(0.08)	-0.07	(0.05)	-0.09	(0.08)	0.04	(0.06)	0.02	(0.10)
	Italy	-0.07	(0.02)	0.89	(0.01)	-0.30	(0.05)	-0.18	(0.04)	0.06	(0.04)	0.14	(0.04)	0.44	(0.07)
	Japan	0.83	(0.03)	0.94	(0.02)	0.51	(0.08)	0.82	(0.08)	0.97	(0.08)	1.01	(0.06)	0.51	(0.10)
	Korea	0.63	(0.02)	0.92	(0.01)	0.52	(0.04)	0.56	(0.04)	0.67	(0.06)	0.74	(0.07)	0.22	(0.08)
	Latvia	-0.17	(0.02)	0.92	(0.01)	-0.06	(0.06)	-0.29	(0.05)	-0.25	(0.04)	-0.09	(0.04)	-0.03	(0.07)
	Luxembourg	-0.12	(0.01)	1.09	(0.01)	-0.31	(0.03)	-0.18	(0.03)	-0.09	(0.03)	0.06	(0.02)	0.36	(0.04)
	Mexico	0.04	(0.02)	0.89	(0.01)	0.16	(0.05)	-0.03	(0.04)	-0.05	(0.03)	0.09	(0.06)	-0.07	(0.08
	Netherlands	-0.10	(0.02)	0.81	(0.01)	-0.19	(0.04)	-0.12	(0.04)	-0.05	(0.04)	-0.05	(0.04)	0.14	(0.06)
	New Zealand	-0.15	(0.02)	1.04	(0.01)	-0.35	(0.04)	-0.23	(0.07)	-0.09	(0.05)	0.01	(0.04)	0.35	(0.06)
	Norway	0.14	(0.03)	0.93	(0.01)	0.14	(0.06)	0.15	(0.06)	0.12	(0.05)	0.16	(0.05)	0.02	(0.07)
	Poland	-0.04	(0.02)	0.93	(0.01)	0.02	(0.05)	-0.09	(0.06)	-0.04	(0.07)	-0.04	(0.06)	-0.06	(0.08)
	Portugal	0.07	(0.03)	1.00	(0.02)	0.09	(0.04)	0.06	(0.06)	0.00	(0.07)	0.15	(0.05)	0.07	(0.07)
	Slovak Republic	-0.13	(0.02)	1.00	(0.01)	-0.28	(0.05)	-0.25	(0.06)	-0.18	(0.05)	0.18	(0.06)	0.45	(0.07
	Slovenia	-0.07	(0.03)	1.04	(0.01)	-0.22	(0.04)	-0.22	(0.04)	-0.04	(0.06)	0.26	(0.06)	0.48	(0.08)
	Spain	-0.08	(0.02)	0.95	(0.01)	-0.06	(0.05)	-0.12	(0.07)	-0.12	(0.07)	-0.02	(0.05)	0.04	(0.07
	Sweden	0.02	(0.03)	0.95	(0.01)	-0.19	(0.04)	0.02	(0.08)	-0.02	(0.05)	0.25	(0.06)	0.44	(0.07
	Switzerland	0.05	(0.03)	1.04	(0.01)	-0.07	(0.06)	-0.03	(0.06)	0.06	(0.07)	0.20	(0.06)	0.27	(0.08
	Turkey	-0.12	(0.02)	0.96	(0.02)	-0.10	(0.04)	-0.20	(0.05)	-0.13	(0.05)	-0.07	(0.07)	0.02	(0.08)
	United Kingdom	-0.08	(0.02)	1.03	(0.01)	-0.11	(0.05)	-0.11	(0.05)	-0.19	(0.05)	0.08	(0.04)	0.19	(0.06)
	United States	0.29	(0.03)	1.01	(0.01)	0.12	(0.05)	0.27	(0.06)	0.27	(0.06)	0.49	(0.04)	0.37	(0.06)
	OECD average	0.00	(0.00)	0.97	(0.00)	-0.11	(0.01)	-0.06	(0.01)	0.02	(0.01)	0.13	(0.01)	0.24	(0.01)
s	Albania	0.42	(0.02)	0.86	(0.01)	0.44	(0.04)	0.40	(0.05)	0.39	(0.03)	0.44	(0.04)	0.00	(0.06)
e.	Algeria	-0.12	(0.02)	0.91	(0.01)	-0.06	(0.04)	-0.02	(0.04)	-0.20	(0.05)	-0.20	(0.04)	-0.14	(0.06)
<i>Partners</i>	Brazil	-0.22	(0.02)	0.97	(0.01)	-0.33	(0.04)	-0.31	(0.04)	-0.31	(0.04)	0.00	(0.03)	0.33	(0.04)
2	B-S-J-G (China)	0.28	(0.02)	0.92	(0.01)	0.10	(0.04)	0.18	(0.06)	0.39	(0.05)	0.46	(0.05)	0.36	(0.06
	Bulgaria	-0.18	(0.02)	0.99	(0.01)	-0.22	(0.06)	-0.37	(0.06)	-0.20	(0.04)	0.04	(0.05)	0.26	(0.09)
	CABA (Argentina)	-0.10	(0.05)	0.84	(0.01)	-0.10	(0.09)	-0.14	(0.12)	-0.20	(0.12)	0.04	(0.11)	0.14	(0.15
	Colombia	0.04	(0.02)	0.89	(0.01)	0.08	(0.05)	0.01	(0.04)	0.01	(0.03)	0.04	(0.04)	-0.04	(0.06
	Costa Rica	0.13	(0.02)	0.93	(0.01)	0.21	(0.05)	0.08	(0.04)	0.12	(0.04)	0.12	(0.05)	-0.09	(0.07
	Croatia	-0.06	(0.02)	0.89	(0.01)	-0.23	(0.05)	-0.13	(0.05)	-0.10	(0.05)	0.20	(0.04)	0.43	(0.07
	Cyprus*	-0.27	(0.01)	0.87	(0.01)	-0.42	(0.03)	-0.28	(0.03)	-0.27	(0.02)	-0.11	(0.03)	0.31	(0.04
	Dominican Republic	0.00	(0.02)	1.01	(0.01)	0.01	(0.06)	-0.06	(0.06)	-0.05	(0.06)	0.09	(0.05)	0.08	(0.09
	FYROM	0.21	(0.01)	0.88	(0.01)	0.14	(0.03)	0.17	(0.03)	0.22	(0.02)	0.30	(0.03)	0.16	(0.04
	Georgia	0.37	(0.02)	0.86	(0.01)	0.39	(0.05)	0.32	(0.04)	0.36	(0.05)	0.43	(0.05)	0.04	(0.07
	Hong Kong (China)	0.35	(0.03)	0.93	(0.02)	0.21	(0.04)	0.35	(0.05)	0.36	(0.06)	0.45	(0.08)	0.23	(0.08
	Indonesia	-0.10	(0.02)	0.87 0.97	(0.01)	0.28	(0.06)	0.23	(0.05)	0.21	(0.06)	0.20 -0.07	(0.07)	-0.08	(0.09
	Jordan Kosovo	0.59	(0.03)	0.97	(0.01)	-0.12 0.53	(0.07) (0.03)	-0.06 0.62	(0.06) (0.03)	-0.13 0.62	(0.05)	0.61	(0.06) (0.03)	0.05	(0.09
	Lebanon	-0.09	(0.01)	0.87	(0.01)	-0.10	(0.03)	-0.08	(0.03)	-0.15	(0.03)	-0.04	(0.03)	0.08	(0.04
	Lithuania	0.05	(0.03)	1.07	(0.02)	-0.10	(0.07)	-0.08	(0.05)	0.04	(0.04)	0.26	(0.04)	0.06	(0.09
	Macao (China)	0.03	(0.02)	0.77	(0.01)	0.18	(0.03)	0.22	(0.00)	0.04	(0.04)	0.26	(0.03)	-0.07	(0.07
	Malta	-0.02	(0.01)	1.00	(0.01)	-0.20	(0.02)	0.22	(0.02)	-0.08	(0.03)	0.11	(0.03)	0.38	(0.03
	Moldova	0.39	(0.02)	0.78	(0.01)	0.45	(0.04)	0.00	(0.04)	0.35	(0.03)	0.17	(0.03)	-0.11	(0.05
	Montenegro	0.39	(0.02)	1.04	(0.01)	0.43	(0.04)	0.41	(0.03)	0.04	(0.04)	0.34	(0.04)	0.01	(0.03
	Peru	0.07	(0.01)	0.86	(0.01)	0.11	(0.03)	0.01	(0.02)	0.04	(0.03)	0.12	(0.03)	-0.03	(0.04
	Qatar	-0.07	(0.02)	1.02	(0.01)	-0.21	(0.04)	-0.12	(0.04)	-0.11	(0.03)	0.19	(0.04)	0.36	(0.03
	Romania	0.26	(0.01)	0.82	(0.01)	0.19	(0.02)	0.12	(0.02)	0.18	(0.02)	0.13	(0.02)	0.36	(0.03
	Russia	0.26	(0.03)	1.03	(0.01)	0.19	(0.03)	0.18	(0.07)	0.18	(0.07)	0.47	(0.05)	-0.26	(0.07
	Singapore	0.34	(0.04)	0.89	(0.01)	0.02	(0.08)	0.27	(0.09)	0.33	(0.08)	0.23	(0.03)	0.49	(0.03
	Chinese Taipei	0.20	(0.01)	0.89	(0.01)	0.02	(0.02)	0.04	(0.03)	0.23	(0.02)	0.31	(0.02)	0.49	(0.03
	Thailand				(0.01)	0.09					(0.03)	0.32		-0.16	
	Trinidad and Tobago	-0.06	(0.02)	0.85 0.91	(0.01)	-0.20	(0.04)	-0.21	(0.04)	-0.04	(0.04)	0.28	(0.03)	0.39	(0.05)
	Tunisia	-0.06	(0.01)	0.91	(0.01)	-0.20	(0.03)	-0.21	(0.03)	-0.04	(0.02)	-0.55	(0.02)	-0.28	(0.0
	United Arab Emirates	0.03	(0.02)	1.03	(0.01)	0.03	(0.03)	0.01	(0.03)	0.02	(0.04)	0.06	(0.03)	0.03	(0.04
	Uruguay Emirates			0.98		-0.23				-0.04		0.00			
	Viet Nam	-0.11 0.42	(0.02)	0.98	(0.01)	0.49	(0.05)	-0.20 0.41	(0.04) (0.05)	0.36	(0.05)	0.00	(0.04)	0.23 -0.08	(0.0)
_															
	Argentina**	-0.22	(0.02)	0.88	(0.01)	-0.19	(0.04)	-0.30	(0.06)	-0.19	(0.04)	-0.19	(0.06)	0.00	(0.07
	Kazakhstan**	0.93	(0.02)	0.83	(0.01)	0.84	(0.06)	0.93	(0.05)	0.88	(0.05)	1.08	(0.05)	0.24	(0.0)
	Malaysia**	0.10	(0.02)	0.83	(0.01)		(0.04)	0.02	(0.05)	0.21	(0.04)	0.21		0.24	(0.0

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Notes: Values that are statistically significant are indicated in bold (see Annex A3). Greater values in the index indicate a more positive disciplinary climate in science lessons.

** See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

** Cathink ** India ** I



Table II.3.11 Index of disciplinary climate in science classes, science performance and school characteristics

					By school	l location						By type	of school		
		(fewe	or village er than people)	(3 0	wn 00 to) people)	(0	ity ver) people)	City_r	ural area	Pu	blic	Priv	vate	Private	– public
		Mean index	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.E.
_ A	Australia	-0.39	(0.06)	-0.36	(0.03)	-0.12	(0.02)	0.27	(0.06)	-0.29	(0.02)	-0.08	(0.03)	0.21	(0.03)
	Austria	0.05	(0.21)	0.29	(0.04)	0.12	(0.07)	0.07	(0.22)	0.22	(0.04)	0.21	(0.14)	-0.01	(0.14)
	Belgium	0.00	(0.12)	-0.14	(0.03)	-0.20	(0.04)	-0.20	(0.12)	W	W	W	(0.04)	W	W
	Canada	-0.15	(0.12)	-0.06	(0.03)	0.05	(0.02)	0.21	(0.13)	-0.01	(0.02)	0.06	(0.08)	0.07	(0.08)
	Chile	-0.22	(0.07)	-0.07	(0.05)	-0.12	(0.04)	0.10	(0.08)	-0.18	(0.05)	-0.06	(0.03)	0.12	(0.06)
	Zech Republic	-0.31	(0.09)	-0.26	(0.03)	-0.16	(0.05)	0.15	(0.11)	-0.24	(0.03)	-0.22	(80.0)	0.02	(0.08)
	Denmark	0.04	(0.08)	0.02	(0.03)	0.07	(0.06)	0.02	(0.09)	-0.03	(0.03)	0.22	(0.06)	0.24	(0.07)
	stonia inland	-0.06	(0.06)	-0.06 -0.11	(0.03)	-0.06 -0.11	(0.04)	-0.06 -0.04	(0.07)	-0.04 -0.10	(0.02)	0.05 -0.10	(0.09)	0.08	(0.10)
	rance	-0.32	(0.08)	-0.11	(0.03)	-0.11	(0.05)	0.02	(0.09)	-0.10	(0.02)	-0.10	(0.13)	0.00	(0.13)
	Germany	0.14	(0.03)	0.07	(0.02)	-0.01	(0.05)	-0.15	(0.10)	0.04	(0.02)	0.08	(0.04)	0.04	(0.07)
	Greece	-0.27	(0.08)	-0.27	(0.04)	-0.14	(0.04)	0.13	(0.08)	-0.24	(0.03)	0.00	(0.08)	0.25	(0.09)
	Hungary	-0.26	(0.13)	-0.09	(0.04)	-0.06	(0.04)	0.19	(0.13)	-0.11	(0.03)	0.04	(0.04)	0.15	(0.05)
	celand	-0.01	(0.04)	-0.04	(0.02)	0.11	(0.02)	0.12	(0.04)	0.01	(0.02)	С	C	m	m
- In	reland	0.06	(0.06)	0.08	(0.04)	0.13	(0.04)	0.06	(0.07)	0.04	(0.04)	0.13	(0.03)	0.09	(0.05)
Is	srael	0.02	(0.07)	-0.05	(0.05)	0.00	(0.06)	-0.02	(0.09)	m	m	m	m	m	n
It	taly	-0.39	(0.05)	-0.06	(0.03)	-0.05	(0.04)	0.34	(0.07)	-0.06	(0.02)	-0.04	(0.16)	0.02	(0.16
	apan	С	С	0.91	(0.06)	0.81	(0.04)	m	m	0.92	(0.03)	0.66	(0.07)	-0.26	(0.08
	Corea	С	С	0.62	(0.11)	0.62	(0.03)	m	m	0.53	(0.03)	0.79	(0.04)	0.25	(0.05
	atvia _	-0.18	(0.05)	-0.18	(0.03)	-0.15	(0.03)	0.03	(0.06)	-0.17	(0.02)	-0.32	(0.21)	-0.15	(0.21
	uxembourg	m	(O, OC)	-0.19	(0.02)	-0.03	(0.02)	m	(0, 07)	-0.12	(0.01)	-0.12	(0.04)	0.00	(0.04
	Aexico	0.13	(0.06)	0.04	(0.02)	0.00	(0.04)	-0.13	(0.07)	0.04	(0.02)	0.04	(0.10)	-0.01	(0.10
	Netherlands	C 0.27	(O 15)	-0.08	(0.02)	-0.14	(0.06)	m	(0.15)	-0.14	(0.04)	-0.07	(0.03)	0.06	(0.06
	New Zealand	-0.27	(0.15)	-0.18	(0.04)	-0.09	(0.03)	0.17	(0.15)	-0.17	(0.02)	0.27	(0.12)	0.44	(0.12
	Norway Poland	0.21	(0.09)	0.13	(0.03)	0.12 -0.17	(0.05)	-0.09 - 0.17	(0.10)	0.13 -0.05	(0.03)	0.33	(0.22)	0.20	(0.23
	ortugal	0.00	(0.03)	0.01	(0.04)	0.17	(0.04)	-0.17	(0.06)	0.08	(0.02)	0.24	(0.14)	0.29	(0.15)
	lovak Republic	-0.27	(0.06)	-0.09	(0.03)	-0.13	(0.08)	0.14	(0.12)	-0.13	(0.02)	-0.13	(0.11)	-0.01	(0.10
	lovenia	0.32	(0.12)	-0.03	(0.03)	-0.13	(0.06)	-0.55	(0.03)	-0.13	(0.03)	-0.13	(0.11)	-0.08	(0.11
	pain	0.07	(0.12)	-0.10	(0.03)	-0.06	(0.04)	-0.13	(0.13)	-0.14	(0.03)	0.04	(0.04)	0.18	(0.05
	weden	-0.21	(0.07)	0.02	(0.03)	0.08	(0.04)	0.29	(0.20)	0.01	(0.03)	0.05	(80.0)	0.04	(0.03
	witzerland	0.03	(0.13)	0.05	(0.04)	0.00	(0.08)	-0.03	(0.15)	0.03	(0.03)	0.28	(0.14)	0.25	(0.14
	urkey	C C	(0.13) C	-0.05	(0.04)	-0.17	(0.03)	m	(0.15) m	-0.12	(0.02)	-0.24	(0.15)	-0.12	(0.15
	Jnited Kingdom	-0.13	(0.10)	-0.10	(0.03)	-0.03	(0.05)	0.09	(0.12)	-0.11	(0.02)	0.31	(0.08)	0.42	(0.08
	Jnited States	0.19	(0.09)	0.30	(0.03)	0.32	(0.05)	0.12	(0.10)	0.27	(0.03)	0.60	(0.08)	0.33	(0.08
C	DECD average	-0.07	(0.02)	-0.01	(0.01)	0.00	(0.01)	0.03	(0.02)	-0.03	(0.00)	0.09	(0.02)	0.12	(0.02)
o A	Albania	0.48	(0.04)	0.41	(0.03)	0.39	(0.03)	-0.09	(0.04)	0.42	(0.02)	0.43	(0.04)	0.01	(0.05
A	Algeria	-0.14	(0.05)	-0.10	(0.03)	-0.17	(0.05)	-0.03	(0.08)	-0.13	(0.02)	C	(0.0 I)	m	n
	Brazil	-0.17	(0.10)	-0.24	(0.03)	-0.20	(0.03)	-0.03	(0.10)	-0.29	(0.02)	0.11	(0.04)	0.40	(0.04
B	B-S-J-G (China)	0.19	(0.07)	0.26	(0.03)	0.35	(0.04)	0.16	(0.08)	0.29	(0.02)	0.22	(0.10)	-0.07	(0.10
	Bulgaria	-0.20	(0.15)	-0.16	(0.03)	-0.21	(0.04)	-0.01	(0.15)	-0.19	(0.02)	С	C	m	n
	CABA (Argentina)	m	m	С	C	-0.09	(0.06)	m	m	-0.09	(0.09)	-0.12	(0.07)	-0.03	(0.11
	Colombia	0.15	(0.05)	-0.01	(0.04)	0.02	(0.03)	-0.12	(0.06)	0.03	(0.02)	0.05	(0.05)	0.01	(0.06
C	Costa Rica	0.14	(0.04)	0.12	(0.03)	0.14	(0.07)	0.00	(0.07)	0.12	(0.02)	0.19	(0.05)	0.07	(0.05
	Croatia	С	C	-0.08	(0.02)	-0.01	(0.03)	m	m	-0.06	(0.02)	0.04	(0.16)	0.10	(0.16
	Cyprus*	-0.22	(0.05)	-0.29	(0.02)	-0.23	(0.02)	-0.01	(0.05)	-0.28	(0.02)	-0.18	(0.03)	0.10	(0.04
	Dominican Republic	0.12	(0.07)	-0.01	(0.04)	-0.01	(0.05)	-0.13	(0.08)	0.01	(0.03)	-0.03	(0.04)	-0.04	(0.05
	YROM	0.31	(0.08)	0.23	(0.02)	0.14	(0.02)	-0.17	(0.08)	0.20	(0.01)	0.22	(0.06)	0.02	(0.06
C	Georgia	0.47	(0.05)	0.35	(0.04)	0.33	(0.03)	-0.14	(0.05)	0.34	(0.02)	0.78	(0.07)	0.44	(0.07
	long Kong (China)	m	m	m	m	0.35	(0.03)	m	m	0.30	(0.06)	0.35	(0.03)	0.05	(0.07
h	ndonesia	0.28	(0.06)	0.24	(0.03)	0.08	(0.04)	-0.21	(0.07)	0.23	(0.03)	0.22	(0.05)	-0.01	(0.0
Je	ordan	-0.04	(80.0)	-0.15	(0.04)	-0.05	(0.04)	-0.01	(0.09)	-0.12	(0.03)	-0.01	(0.06)	0.11	(0.06
K	Kosovo	0.63	(0.05)	0.59	(0.02)	0.59	(0.03)	-0.05	(0.05)	0.59	(0.02)	0.64	(0.07)	0.04	(0.08
	ebanon	-0.09	(0.09)	-0.11	(0.03)	-0.08	(0.04)	0.01	(0.11)	-0.17	(0.04)	-0.03	(0.03)	0.14	(0.05
	ithuania	-0.02	(0.05)	0.03	(0.03)	0.10	(0.05)	0.12	(0.07)	0.04	(0.02)	0.24	(0.25)	0.20	(0.25
	Aacao (China)	С	С	С	С	0.16	(0.01)	m	m	С	С	0.16	(0.01)	m	r
	//alta	-0.05	(0.05)	-0.03	(0.02)	m	m	m	m	-0.09	(0.03)	0.09	(0.02)	0.18	(0.04
	Aoldova	0.44	(0.03)	0.36	(0.03)	0.29	(0.05)	-0.15	(0.06)	0.39	(0.02)	С	C	m	r
	Montenegro	C	C	0.09	(0.02)	0.02	(0.03)	m	m	0.07	(0.01)	C	C	m	10.0
	Peru	0.18	(0.03)	0.13	(0.02)	0.10	(0.03)	-0.09	(0.05)	0.12	(0.02)	0.18	(0.03)	0.06	(0.04
	Qatar	-0.32	(0.04)	-0.15	(0.01)	0.02	(0.01)	0.34	(0.04)	-0.24	(0.01)	0.16	(0.01)	0.40	(0.02)
	Romania	0.28	(0.11)	0.23	(0.03)	0.30	(0.05)	0.02	(0.12)	0.26	(0.03)	С	С	m	r
	Russia	0.61	(0.09)	0.34	(0.07)	0.26	(0.04)	-0.34	(0.08)	0.34	(0.04)	C 20	C (0.04)	m	(0.0)
	ingapore	m	m	m	m	0.20	(0.01)	m	m	0.19	(0.01)	0.39	(0.04)	0.20	(0.04
	Chinese Taipei	C	C	0.15	(0.03)	0.20	(0.03)	m	m	0.21	(0.02)	0.11	(0.04)	-0.09	(0.04
	hailand	0.37	(0.05)	0.36	(0.02)	0.33	(0.03)	-0.05	(0.06)	0.36	(0.02)	0.28	(0.03)	-0.08	(0.03
	rinidad and Tobago	-0.22	(0.03)	-0.04	(0.01)	m	m	m	m	-0.08	(0.01)	0.00	(0.06)	0.07	(0.0)
	unisia	-0.39	(0.09)	-0.38	(0.02)	-0.45	(0.03)	-0.05	(0.10)	-0.41	(0.02)	-0.28	(0.14)	0.13	(0.14
	Inited Arab Emirates	0.06	(0.06)	-0.03	(0.03)	0.06	(0.02)	0.00	(0.07)	0.00	(0.02)	0.07	(0.02)	0.07	(0.03
	Jruguay	0.02	(0.09)	-0.12	(0.03)	-0.11	(0.03)	-0.13	(0.10)	-0.14	(0.02)	0.04	(0.06)	0.18	(0.0)
V	/iet Nam	0.45	(0.03)	0.43	(0.04)	0.36	(0.04)	-0.10	(0.06)	0.43	(0.02)	0.29	(0.09)	-0.13	(0.09
Α	Argentina**	0.01	(0.09)	-0.23	(0.03)	-0.24	(0.04)	-0.25	(0.09)	-0.24	(0.02)	-0.15	(0.05)	0.09	(0.06
	(azakhstan**	0.90	(0.04)	0.88	(0.04)	0.99	(0.03)	0.09	(0.06)	0.94	(0.02)	0.89	(0.13)	-0.04	(0.13
	//Aalaysia**	-0.01	(0.04)	0.12	(0.03)	0.14	(0.03)	0.14	(0.05)	0.10	(0.02)	0.17	(0.07)	0.07	(0.07

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Notes: Values that are statistically significant are indicated in bold (see Annex A3). Greater values in the index indicate a more positive disciplinary climate in science lessons.

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 3/3]

Table II.3.11 Index of disciplinary climate in science classes, science performance and school characteristics

				By educa	tion level					ing for stud -economic			accounti		
		educ	econdary cation ED 2)	educ	econdary cation ED 3)	ISCED 3	- ISCED 2	Change in score p incre on the i disciplination science	er unit ease ndex of ry climate	in stu	l variance udent mance ed x 100)	Change in score p incr on the i disciplination science	er unit ease ndex of ry climate	in st	d variance tudent rmance red x 100)
		Mean index	S.E.	Mean index	S.E.	Dif.	S.E.	Score dif.	S.E.	%	S.E.	Score dif.	S.E.	%	S.E.
Q	Australia	-0.23	(0.02)	0.16	(0.05)	0.39	(0.05)	21	(1.2)	4.7	(0.5)	16	(1.2)	17.3	(1.0)
OECD	Austria	-0.09	(0.18)	0.22	(0.04)	0.31	(0.19)	14	(2.1)	2.6	(0.8)	10	(1.7)	29.6	(2.1)
0	Belgium Canada	-0.53 -0.13	(0.06)	-0.13 0.01	(0.02)	0.40 0.14	(0.06)	13 14	(1.3)	2.0 2.6	(0.4)	9 12	(1.1)	35.3 12.8	(2.0)
	Chile	-0.29	(0.11)	-0.10	(0.03)	0.19	(0.11)	17	(2.4)	3.0	(0.8)	12	(2.2)	27.7	(1.7)
	Czech Republic	-0.32	(0.03)	-0.14	(0.03)	0.18	(0.05)	19	(1.6)	4.5	(0.8)	11	(1.4)	34.1	(1.9)
	Denmark	0.03	(0.02)	C	(O. 12)	m	m	12	(1.6)	1.6	(0.5)	8	(1.5)	12.6	(1.3)
	Estonia Finland	-0.04 -0.10	(0.02)	0.29 c	(0.12) C	0.33 m	(0.12) m	12 11	(1.9) (1.9)	1.6 1.1	(0.5)	12 10	(1.6)	12.7 12.1	(1.4)
	France	-0.55	(0.02)	-0.20	(0.02)	0.35	(0.05)	18	(1.9)	3.2	(0.7)	7	(1.3)	35.5	(1.8)
	Germany	0.04	(0.02)	0.22	(0.11)	0.18	(0.12)	20	(2.0)	3.6	(0.7)	11	(1.3)	34.6	(1.9)
	Greece	-0.54	(0.10)	-0.21	(0.03)	0.33	(0.10)	24	(2.3)	5.0	(0.9)	15	(1.8)	25.4	(2.5)
	Hungary Iceland	-0.11 0.01	(0.10) (0.02)	-0.08 m	(0.02) m	0.03 m	(0.10) m	18 8	(2.1)	3.5 0.7	(0.8)	8	(1.6) (1.9)	43.3 6.0	(2.1)
	Ireland	0.07	(0.02)	0.13	(0.03)	0.06	(0.04)	7	(1.7)	0.8	(0.3)	7	(1.5)	13.9	(1.3)
	Israel	-0.16	(0.07)	-0.01	(0.03)	0.15	(0.08)	13	(2.4)	1.7	(0.6)	12	(1.7)	26.8	(2.4)
	Italy	-0.22	(0.16)	-0.06	(0.02)	0.15	(0.16)	15	(1.7)	2.2	(0.5)	7	(1.6)	23.4	(2.2)
	Japan	0.49	(0, 07)	0.83	(0.03)	m	(0, 08)	23	(2.3)	5.6	(1.1)	14	(2.0)	29.7	(2.2)
	Korea Latvia	-0.18	(0.07)	0.64	(0.03)	0.17 0.25	(0.08)	6 10	(2.3)	0.4 1.3	(0.3)	2 10	(1.8)	15.9 13.7	(2.1)
	Luxembourg	-0.28	(0.02)	0.10	(0.02)	0.38	(0.03)	21	(1.3)	5.4	(0.6)	14	(1.2)	35.6	(1.0)
	Mexico	-0.07	(0.04)	0.11	(0.02)	0.19	(0.05)	10	(1.8)	1.5	(0.5)	11	(1.3)	18.0	(2.0)
	Netherlands	-0.15	(0.02)	0.04	(0.03)	0.20	(0.03)	15	(2.4)	1.4	(0.4)	12	(2.0)	39.3	(3.2)
	New Zealand Norway	-0.36 0.14	(0.07)	-0.14 c	(0.02)	0.22 m	(0.07) m	16 12	(1.6) (1.7)	2.9	(0.5)	11 11	(1.6) (1.7)	17.7 9.8	(1.4)
	Poland	-0.04	(0.03)	C	С	m	m	9	(1.8)	0.9	(0.4)	9	(1.7)	16.6	(1.6)
	Portugal	-0.12	(0.03)	0.23	(0.04)	0.35	(0.04)	15	(2.0)	2.3	(0.6)	13	(1.8)	25.3	(2.2)
	Slovak Republic	-0.28	(0.03)	0.01	(0.03)	0.29	(0.05)	22	(1.8)	5.5	(0.9)	16	(1.6)	30.4	(1.9)
	Slovenia	-0.08	(0.20)	-0.07	(0.03)	0.00	(0.20)	15	(2.6)	2.6	(0.9)	6	(2.1)	34.8	(2.0)
	Spain Sweden	-0.08 0.00	(0.02)	0.73	(0.16)	0.73	m (0.16)	11 13	(1.8)	1.3 1.7	(0.5)	10	(1.7)	16.7 16.4	(1.3)
	Switzerland	0.01	(0.04)	0.23	(0.04)	0.22	(0.05)	17	(2.1)	3.2	(0.8)	13	(1.7)	27.8	(2.0)
	Turkey	-0.15	(0.16)	-0.12	(0.02)	0.03	(0.16)	10	(2.1)	1.6	(0.6)	9	(1.6)	27.2	(4.0)
	United Kingdom	-0.17	(0.12)	-0.08	(0.02)	0.08	(0.12)	20	(1.7)	4.6	(0.7)	17	(1.4)	20.3	(1.6)
	United States OECD average	-0.08	(0.06)	0.33	(0.02)	0.41	(0.06)	24 15	(1.5)	6.2 2.7	(0.8)	20	(1.4)	18.6 23.3	(1.6)
Partners	Albania Algeria	-0.11	(0.03)	0.40 -0.16	(0.02)	-0.04 -0.05	(0.03) (0.05)		m (1.9)	0.4	m (0.3)	6	m (1.6)	m 10.3	(3.1)
ŧ	Brazil	-0.11	(0.02)	-0.17	(0.03)	0.30	(0.03)	18	(1.3)	3.9	(0.5)	12	(1.0)	24.9	(2.1)
Ъ	B-S-J-G (China)	0.25	(0.03)	0.33	(0.03)	0.08	(0.04)	22	(2.3)	3.8	(0.8)	12	(2.0)	36.0	(2.9)
	Bulgaria	-0.07	(0.15)	-0.18	(0.02)	-0.11	(0.16)	16	(1.9)	2.6	(0.6)	10	(1.6)	37.5	(2.6)
	CABA (Argentina)	-0.10	(0.06)	-0.12	(0.06)	-0.02	(0.08)	4	(4.3)	0.2	(0.4)	2	(3.0)	31.9	(3.5)
	Colombia Costa Rica	-0.09 0.07	(0.03)	0.12	(0.02)	0.21 0.12	(0.03) (0.04)	10 5	(1.8)	1.2 0.5	(0.4)	11 6	(1.3)	22.9 22.0	(2.4)
	Croatia	0.07	(0.03) C	-0.05	(0.03)	m	(0.04) m	24	(1.7)	6.0	(0.8)	16	(1.5)	27.5	(2.0)
	Cyprus*	-0.44	(0.04)	-0.25	(0.01)	0.18	(0.04)	24	(1.5)	5.3	(0.6)	19	(1.5)	20.8	(1.1)
	Dominican Republic	-0.26	(0.06)	0.05	(0.03)	0.32	(0.07)	11	(1.7)	2.2	(0.7)	9	(1.4)	25.9	(3.0)
	FYROM	C 22	C (0, 02)	0.21	(0.01)	m	m	13	(1.6)	1.9	(0.4)	10	(1.5)	17.3	(1.3)
	Georgia Hong Kong (China)	0.22	(0.03)	0.42 0.46	(0.02)	0.20 0.29	(0.04)	16 12	(1.9)	2.4	(0.6)	15 10	(1.7)	16.3 13.2	(1.5)
	Indonesia	0.17	(0.03)	0.40	(0.03)	0.23	(0.04)	7	(1.5)	0.9	(0.4)	9	(1.4)	25.2	(2.9)
	Jordan	-0.10	(0.03)	m	m	m	m	9	(1.8)	1.3	(0.5)	8	(1.6)	13.4	(2.1)
	Kosovo	0.54	(0.02)	0.61	(0.02)	0.08	(0.03)	12	(1.5)	2.1	(0.5)	11	(1.3)	15.8	(1.4)
	Lebanon	-0.08	(0.06)	-0.10	(0.03)	-0.02	(0.07)	14	(2.7)	1.8	(0.7)	13	(2.2)	20.4	(2.9)
	Lithuania Macao (China)	0.05	(0.02)	0.22	(0.02)	0.12	(0.02)	16 9	(1.5) (1.9)	3.6 0.8	(0.6)	12 10	(1.2) (1.9)	23.1 3.1	(2.3)
	Malta	0.10 C	(0.02) C	-0.02	(0.02)	m	(0.02) m	30	(1.8)	6.6	(0.8)	25	(1.6)	27.7	(1.2)
	Moldova	0.37	(0.02)	0.54	(0.08)	0.17	(0.08)	6	(2.2)	0.3	(0.2)	7	(2.0)	14.1	(1.8)
	Montenegro	0.19	(0.13)	0.07	(0.01)	-0.12	(0.13)	12	(1.3)	2.1	(0.5)	12	(1.2)	18.5	(1.0)
	Peru	0.00	(0.03)	0.17	(0.02)	0.17	(0.03)	6	(1.4)	0.4	(0.2)	6	(1.1)	28.4	(2.3)
	Qatar Romania	-0.18 0.26	(0.02)	-0.04 m	(0.01) m	0.14 m	(0.02) m	25 20	(1.1) (2.3)	7.1 4.5	(0.6)	20 15	(1.1)	19.2 25.5	(0.7)
	Russia	0.20	(0.05)	0.45	(0.11)	0.13	(0.12)	9	(1.5)	1.2	(0.4)	10	(1.3)	11.4	(1.6)
	Singapore	0.00	(0.11)	0.21	(0.01)	0.21	(0.11)	30	(1.7)	7.0	(0.8)	18	(1.4)	27.3	(1.7)
	Chinese Taipei	0.13	(0.02)	0.21	(0.03)	0.09	(0.03)	12	(2.1)	1.2	(0.4)	6	(1.5)	28.1	(2.6)
	Thailand	0.37	(0.03)	0.35	(0.02)	-0.01	(0.03)	6	(1.5)	0.4	(0.2)	9	(1.3)	19.1	(3.1)
	Trinidad and Tobago Tunisia	-0.31 -0.41	(0.02)	0.11 -0.43	(0.02)	0.42 -0.01	(0.03)	26	(1.6) (1.5)	6.4 0.0	(0.8)	14 4	(1.4)	39.3 20.1	(1.2)
	United Arab Emirates	0.01	(0.03)	0.04	(0.02)	0.03	(0.03)	13	(1.1)	1.9	(0.1)	13	(1.4)	17.5	(1.7)
	Uruguay	-0.41	(0.04)	0.03	(0.02)	0.44	(0.04)	11	(1.7)	1.6	(0.5)	7	(1.3)	25.7	(1.9)
	Viet Nam	0.42	(0.07)	0.42	(0.02)	0.00	(0.07)	10	(2.8)	0.7	(0.4)	13	(2.3)	20.7	(4.2)
		1												00.6	(2.1)
	Argentina** Kazakhstan**	-0.31 0.93	(0.03)	-0.16 0.98	(0.03)	0.15 0.05	(0.05)	11 11	(1.9) (2.7)	1.6 1.5	(0.5)	11 8	(1.8) (2.4)	20.6 9.5	(2.1)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Notes: Values that are statistically significant are indicated in bold (see Annex A3). Greater values in the index indicate a more positive disciplinary climate in science lessons.

** See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/3]

Table II.3.15 Index of student behaviour hindering learning, science performance and school characteristics

suits based on schoo	i i		udents					By sch	ool socio-	economic	profile ¹			
	Ave	erage	Varia	ability	Bottom	quarter	Second	quarter	Third (quarter	Тор q	uarter		bottom arter
	Mean index	S.E.	S.D.	S.E.	Mean index	S.E.	Mean index	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.E.
Australia	-0.13	(0.04)	1.08	(0.03)	0.60	(0.07)	0.24	(0.08)	-0.40	(0.10)	-0.90	(0.08)	-1.50	(0.10
Austria	0.20	(0.07)	1.06	(0.05)	0.45	(0.13)	0.43	(0.17)	0.05	(0.14)	-0.11	(0.15)	-0.56	(0.20
Belgium	0.13	(0.05)	0.94	(0.05)	0.92	(0.09)	0.34	(0.09)	-0.16	(0.11)	-0.54	(0.12)	-1.46	(0.14
Chile	0.48	(0.05)	0.95	(0.04)	0.75	(0.10)	0.82	(0.09)	0.54	(0.11)	-0.14	(0.13)	-0.89	(0.16
Chile Czech Republic	-0.21 0.10	(0.08)	1.15 0.95	(0.05) (0.04)	0.35	(0.17) (0.11)	0.46 0.12	(0.20)	-0.64 0.21	(0.22)	-0.95 -0.42	(0.17)	-1.30 -0.93	(0.23
Denmark	-0.31	(0.05)	0.99	(0.04)	0.38	(0.11)	-0.49	(0.10)	-0.43	(0.14)	-0.42	(0.12)	-1.05	(0.17
Estonia	-0.01	(0.04)	0.86	(0.04)	-0.09	(0.10)	0.03	(0.13)	0.18	(0.12)	-0.15	(0.07)	-0.07	(0.13
Finland	0.28	(0.04)	0.77	(0.05)	0.17	(0.11)	0.30	(0.12)	0.44	(0.12)	0.20	(0.11)	0.03	(0.15
France	0.22	(0.07)	0.94	(0.05)	0.54	(0.14)	0.29	(0.14)	0.18	(0.12)	-0.10	(0.11)	-0.64	(0.16
Germany	0.05	(0.05)	0.78	(0.05)	0.24	(0.12)	0.16	(0.16)	-0.09	(0.12)	-0.13	(0.14)	-0.36	(0.18
Greece	-0.40	(0.07)	1.03	(0.06)	0.08	(0.20)	-0.28	(0.23)	-0.70	(0.16)	-0.69	(0.11)	-0.77	(0.23
Hungary	-0.36	(0.08)	1.18	(0.06)	0.51	(0.16)	-0.04	(0.22)	-0.72	(0.17)	-1.16	(0.11)	-1.67	(0.18
Iceland	-0.34	(0.00)	0.90	(0.00)	-0.38	(0.01)	-0.33	(0.02)	-0.50	(0.01)	-0.12	(0.01)	0.26	(0.01
Ireland	0.04	(0.08)	0.91	(0.05)	0.41	(0.18)	0.07	(0.16)	0.05	(0.16)	-0.39	(0.18)	-0.80	(0.25
Israel	0.06	(0.07)	0.83	(0.04)	0.19	(0.14)	0.15	(0.14)	0.13	(0.16)	-0.23	(0.14)	-0.42	(0.20
Italy	-0.06	(0.06)	0.90	(0.05)	0.40	(0.09)	0.24	(0.15)	-0.28	(0.12)	-0.51	(0.11)	-0.91	(0.15
Japan	-0.53	(0.06)	0.92	(0.05)	0.04	(0.12)	-0.49	(0.14)	-0.78	(0.14)	-0.89	(0.11)	-0.92	(0.17
Korea	-0.29	(0.08)	1.17	(0.06)	0.39	(0.18)	-0.46	(0.19)	-0.45	(0.18)	-0.62	(0.17)	-1.01	(0.26
Latvia	0.10	(0.05)	0.85	(0.03)	-0.01	(0.10)	0.12	(0.12)	0.17	(0.11)	0.13	(0.10)	0.14	(0.1
Luxembourg	0.17	(0.00)	0.80	(0.00)	0.87	(0.00)	0.51	(0.00)	0.00	(0.00)	-0.70	(0.00)	-1.57	(0.00
Mexico	0.21	(0.05)	0.93	(0.03)	0.17	(0.11)	0.18	(0.16)	0.61	(0.10)	-0.10	(0.12)	-0.27	(0.1.
Netherlands	0.40	(0.08)	0.76	(0.06)	0.52	(0.20)	0.52	(0.21)	0.31	(0.16)	0.26	(0.12)	-0.26	(0.2
New Zealand	0.15	(0.05)	0.93	(0.03)	0.72	(0.11)	0.36	(0.13)	0.25	(0.13)	-0.67	(0.10)	-1.40	(0.1
Norway	-0.11	(0.06)	0.85	(0.06)	-0.03	(0.16)	-0.01	(0.15)	-0.21	(0.12)	-0.17	(0.10)	-0.14	(0.1
Poland	-0.08	(0.06)	0.89	(0.04)	-0.13	(0.15)	0.17	(0.13)	-0.15	(0.17)	-0.21	(0.15)	-0.07	(0.2
Portugal	0.32	(0.06)	0.92	(0.05)	0.27	(0.11)	0.52	(0.13)	0.37	(0.16)	0.13	(0.11)	-0.15	(0.1
Slovak Republic	0.08	(0.06)	0.96	(0.04)	0.35	(0.13)	0.09	(0.12)	0.10	(0.12)	-0.22	(0.14)	-0.57	(0.19
Slovenia	0.31	(0.01)	0.81	(0.01)	0.58	(0.02)	0.53	(0.02)	0.17	(0.02)	-0.05	(0.01)	-0.63	(0.0)
Spain	-0.14	(0.06)	1.02	(0.05)	0.44	(0.14)	0.19	(0.17)	-0.29	(0.14)	-0.92	(0.11)	-1.36	(0.1
Sweden	0.12	(0.06)	0.84	(0.04)	0.39	(0.13)	0.20	(0.13)	0.07	(0.16)	-0.19	(0.13)	-0.58	(0.1
Switzerland	-0.03	(0.07)	0.91	(0.04)	-0.04	(0.18)	0.07	(0.14)	-0.11	(0.13)	-0.06	(0.12)	-0.02	(0.2
Turkey	0.18	(0.07)	0.93	(0.06)	0.33	(0.12)	0.45	(0.14)	0.08	(0.18)	-0.14	(0.17)	-0.47	(0.2
United Kingdom	-0.50	(0.06)	0.89	(0.04)	-0.20	(0.09)	-0.28	(0.15)	-0.55	(0.13)	-0.91	(0.15)	-0.71	(0.1
United States	0.25	(0.07)	0.97	(0.06)	0.78	(0.15)	0.37	(0.20)	0.26	(0.21)	-0.39	(0.20)	-1.18	(0.2
OECD average	0.01	(0.01)	0.93	(0.01)	0.33	(0.02)	0.16	(0.02)	-0.07	(0.02)	-0.36	(0.02)	-0.69	(0.03
Albania	-0.68	(0.08)	0.99	(0.06)	-0.65	(0.18)	-0.77	(0.22)	-0.53	(0.24)	-0.72	(0.14)	-0.07	(0.23
Algeria	0.14	(0.11)	1.20	(0.06)	0.10	(0.21)	-0.57	(0.19)	0.39	(0.25)	0.65	(0.25)	0.54	(0.3
Albania Algeria Brazil B.S.L.C. (China)	0.55	(0.06)	1.24	(0.04)	0.79	(0.08)	0.85	(0.12)	0.82	(0.14)	-0.21	(0.14)	-1.00	(0.1
D-3-j-G (Cilila)	0.34	(0.18)	2.08	(0.09)	0.79	(0.26)	0.62	(0.35)	0.39	(0.51)	-0.45	(0.28)	-1.24	(0.3
Bulgaria	-0.11	(0.10)	1.38	(0.06)	0.57	(0.20)	-0.05	(0.25)	-0.30	(0.18)	-0.71	(0.23)	-1.28	(0.2
CABA (Argentina)	-0.14	(0.11)	1.08	(0.09)	0.71	(0.28)	0.18	(0.27)	-0.64	(0.37)	-0.92	(0.32)	-1.64	(0.4
Colombia	0.10	(0.07)	1.10	(0.05)	0.09	(0.17)	0.41	(0.15)	0.42	(0.13)	-0.52	(0.15)	-0.60	(0.2
Costa Rica	0.74	(0.08)	1.12	(0.06)	0.76	(0.19)	0.71	(0.20)	0.72	(0.19)	0.75	(0.14)	-0.01	(0.2
Croatia	0.98	(0.08)	1.02	(0.06)	1.24	(0.12)	1.22	(0.17)	1.07	(0.16)	0.38	(0.22)	-0.86	(0.2
Cyprus*	0.05	(0.00)	0.79	(0.00)	0.16	(0.01)	0.23	(0.01)	0.25	(0.00)	-0.45	(0.00)	-0.61	(0.0)
Dominican Republic	-0.14	(0.07)	0.92	(0.07)	-0.14	(0.14)	0.20	(0.13)	0.02	(0.18)	-0.62	(0.15)	-0.48	(0.2
FYROM	-0.28	(0.01)	1.01	(0.00)	-0.16	(0.02)	-0.24	(0.01)	-0.47	(0.01)	-0.26	(0.01)	-0.10	(0.0)
Georgia	-0.54	(0.08)	1.19	(0.08)	-0.40	(0.17)	-0.62	(0.15)	-0.37	(0.21)	-0.78	(0.16)	-0.38	(0.2
Hong Kong (China)	-0.75 -0.90	(0.08)	0.82	(0.04)	-0.30	(0.13)	-0.59	(0.15)	-1.01 -0.88	(0.14)	-1.08	(0.21)	-0.78 -0.22	(0.2
Indonesia	0.12	(0.07)	1.33	(0.05)	-0.82 0.63	(0.15)	-0.86 -0.14	(0.16)	0.34	(0.17)	-1.04 -0.34	(0.17)	-0.22 - 0.97	(0.2
Jordan Kosovo	0.12	(0.09)	1.33	(0.06) (0.02)	-0.01	(0.27) (0.09)	0.14	(0.21)	0.34	(0.20) (0.04)	-0.34	(0.19) (0.06)	-0.97	
Lebanon	-0.73	(0.03)	1.09	(0.02)	-0.01	(0.09)	-0.66	(0.06)	-0.83	(0.04)	-0.13	(0.06)	-0.12 -0.63	(0.1
Lithuania	-0.73	(0.09)	0.84	(0.08)	-0.40	(0.18)	-0.12	(0.18)	-0.83	(0.13)	-0.60	(0.13)	-0.63	(0.2
Macao (China)	-0.26	(0.03)	1.77	(0.03)	0.70	(0.09)	-1.32	(0.12)	-0.16	(0.12)	-0.60	(0.13)	-0.44	(0.0
Malta	-0.52	(0.00)	1.09	(0.00)	0.70	(0.01)	-0.41	(0.00)	-1.04	(0.01)	-0.78	(0.00)	-1.49	(0.0
Moldova	0.30	(0.00)	1.14	(0.00)	0.39	(0.15)	0.38	(0.01)	0.63	(0.01)	0.01	(0.01)	-0.19	(0.0
Montenegro	0.50	(0.07)	0.67	(0.07)	0.19	(0.13)	0.39	(0.13)	0.59	(0.13)	0.01	(0.00)	-0.19	(0.0
	-0.33	(0.01)	1.20	(0.06)	-0.57	(0.02)	0.39	(0.02)	-0.12	(0.01)	-1.08	(0.00)	-0.50	(0.0
	-0.84	(0.07)	1.08	(0.00)	-0.88	(0.13)	-0.46	(0.17)	-1.22	(0.13)	-0.80	(0.00)	0.08	(0.2
Peru		(0.00)	1.00	(0.05)	0.48	(0.01)	0.22	(0.01)	-0.12	(0.17)	-0.78	(0.16)	-1.26	(0.0
Peru Qatar			1.45	(0.03)	0.40	(0.13)	0.22	(0.27)	0.84	(0.17)	0.32	(0.14)	-0.48	(0.4
Peru Qatar Romania	-0.05				-0.28	(0.22)	-0.58	(0.27)	-0.67	(0.30)	-1.12	(0.34)	-0.46	(0.4
Peru Qatar Romania Russia	-0.05 0.70	(0.12)		(0.01)		(0.01)			-0.60	(0.03)	-1.12	(0.08)	-0.73	(0.0
Peru Qatar Romania Russia Singapore	-0.05 0.70 -0.67	(0.12) (0.02)	0.83	(0.01)							-1.14		-0./3	
Peru Qatar Romania Russia Singapore Chinese Taipei	-0.05 0.70 -0.67 -0.69	(0.12) (0.02) (0.10)	0.83 1.39	(0.09)	-0.41	(0.21)	-0.61	(0.21)					0.24	/O 1
Peru Qatar Romania Russia Singapore Chinese Taipei Thailand	-0.05 0.70 -0.67 -0.69 -0.10	(0.12) (0.02) (0.10) (0.06)	0.83 1.39 0.88	(0.09) (0.04)	-0.41 -0.18	(0.21) (0.13)	0.09	(0.15)	0.21	(0.17)	-0.52	(0.13)	-0.34	
Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	-0.05 0.70 -0.67 -0.69 -0.10 0.83	(0.12) (0.02) (0.10) (0.06) (0.01)	0.83 1.39 0.88 1.06	(0.09) (0.04) (0.00)	-0.41 -0.18 1.52	(0.21) (0.13) (0.01)	0.09 1.32	(0.15) (0.02)	0.21 0.56	(0.17) (0.01)	-0.52 -0.22	(0.13) (0.01)	-1.73	(0.0
Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	-0.05 0.70 -0.67 -0.69 -0.10 0.83 0.81	(0.12) (0.02) (0.10) (0.06) (0.01) (0.11)	0.83 1.39 0.88 1.06 1.09	(0.09) (0.04) (0.00) (0.09)	-0.41 -0.18 1.52 0.75	(0.21) (0.13) (0.01) (0.18)	0.09 1.32 0.82	(0.15) (0.02) (0.19)	0.21 0.56 0.72	(0.17) (0.01) (0.21)	-0.52 -0.22 0.98	(0.13) (0.01) (0.31)	-1.73 0.22	(0.0
Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	-0.05 0.70 -0.67 -0.69 -0.10 0.83 0.81 -0.60	(0.12) (0.02) (0.10) (0.06) (0.01) (0.11) (0.05)	0.83 1.39 0.88 1.06 1.09 1.25	(0.09) (0.04) (0.00) (0.09) (0.05)	-0.41 -0.18 1.52 0.75 -0.11	(0.21) (0.13) (0.01) (0.18) (0.13)	0.09 1.32 0.82 -0.53	(0.15) (0.02) (0.19) (0.14)	0.21 0.56 0.72 -0.84	(0.17) (0.01) (0.21) (0.16)	-0.52 -0.22 0.98 -0.93	(0.13) (0.01) (0.31) (0.09)	-1.73 0.22 -0.83	(0.0 (0.3 (0.1
Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	-0.05 0.70 -0.67 -0.69 -0.10 0.83 0.81	(0.12) (0.02) (0.10) (0.06) (0.01) (0.11)	0.83 1.39 0.88 1.06 1.09	(0.09) (0.04) (0.00) (0.09)	-0.41 -0.18 1.52 0.75	(0.21) (0.13) (0.01) (0.18)	0.09 1.32 0.82	(0.15) (0.02) (0.19)	0.21 0.56 0.72	(0.17) (0.01) (0.21)	-0.52 -0.22 0.98	(0.13) (0.01) (0.31)	-1.73 0.22	(0.0 (0.3 (0.1 (0.1
Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	-0.05 0.70 -0.67 -0.69 -0.10 0.83 0.81 -0.60 0.08 -0.16	(0.12) (0.02) (0.10) (0.06) (0.01) (0.11) (0.05) (0.06) (0.06)	0.83 1.39 0.88 1.06 1.09 1.25 1.19	(0.09) (0.04) (0.00) (0.09) (0.05) (0.05) (0.05)	-0.41 -0.18 1.52 0.75 -0.11 0.63 0.01	(0.21) (0.13) (0.01) (0.18) (0.13) (0.09) (0.14)	0.09 1.32 0.82 -0.53 0.34 0.07	(0.15) (0.02) (0.19) (0.14) (0.15) (0.14)	0.21 0.56 0.72 -0.84 0.26 -0.15	(0.17) (0.01) (0.21) (0.16) (0.16) (0.11)	-0.52 -0.22 0.98 -0.93 -0.92 -0.58	(0.13) (0.01) (0.31) (0.09) (0.11) (0.10)	-1.73 0.22 -0.83 -1.55 -0.59	(0.0 (0.3 (0.1 (0.1 (0.1
Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	-0.05 0.70 -0.67 -0.69 -0.10 0.83 0.81 -0.60 0.08	(0.12) (0.02) (0.10) (0.06) (0.01) (0.11) (0.05) (0.06)	0.83 1.39 0.88 1.06 1.09 1.25 1.19	(0.09) (0.04) (0.00) (0.09) (0.05) (0.05)	-0.41 -0.18 1.52 0.75 -0.11 0.63	(0.21) (0.13) (0.01) (0.18) (0.13) (0.09)	0.09 1.32 0.82 -0.53 0.34	(0.15) (0.02) (0.19) (0.14) (0.15)	0.21 0.56 0.72 -0.84 0.26	(0.17) (0.01) (0.21) (0.16) (0.16)	-0.52 -0.22 0.98 -0.93 -0.92	(0.13) (0.01) (0.31) (0.09) (0.11)	-1.73 0.22 -0.83 -1.55	(0.0 (0.3 (0.1 (0.1

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Notes: Values that are statistically significant are indicated in bold (see Annex A3). Higher values on the index indicate that student behaviour hinders learning to a greater extent.

** See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

** Cathink ** India *



Table II.3.15 Index of student behaviour hindering learning, science performance and school characteristics

			1	By schoo	location		1				By type	of school		
		a or village er than	To (3.0	wn 00 to		ity ver								
	3 000	people)	100 000	people)	100 000	people)	City - r	ural area		blic		vate	Private	– publi
	Mean index	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.E
Australia	0.09	(0.14)	0.22	(0.08)	-0.29	(0.04)	-0.37	(0.15)	0.34	(0.05)	-0.73	(0.05)	-1.07	(0.0)
Austria Belgium	0.40	(0.37) (0.25)	0.09 -0.02	(0.09)	0.33	(0.12)	-0.07 0.58	(0.39) (0.29)	0.21 w	(0.08) W	0.08 w	(0.20) w	-0.13 w	(0.2
Canada	0.72	(0.18)	0.51	(0.08)	0.43	(0.07)	-0.29	(0.20)	0.61	(0.05)	-0.87	(0.20)	-1.48	(0.2
Chile	-0.27	(0.25)	-0.22	(0.16)	-0.21	(0.10)	0.06	(0.27)	0.38	(0.10)	-0.57	(0.12)	-0.95	(0.1
Czech Republic	-0.17	(0.11)	0.16	(0.07)	0.02	(0.10)	0.19	(0.15)	0.12	(0.05)	-0.15	(0.18)	-0.28	(0.2
Denmark	-0.45	(0.14)	-0.30	(0.08)	-0.20	(0.13)	0.25	(0.20)	-0.19	(0.07)	-0.75	(0.10)	-0.57	(0.1
Estonia Finland	-0.12 -0.06	(0.12)	0.16	(0.06) (0.07)	-0.16 0.39	(0.09)	-0.04 0.46	(0.14)	0.00	(0.05)	-0.30 -0.29	(0.21)	-0.30 - 0.60	(0.2
France	-0.58	(0.14)	0.30	(0.07)	0.39	(0.13)	0.40	(0.19)	0.41	(0.00)	-0.29	(0.23)	-0.92	(0.
Germany	-0.18	(0.20)	0.01	(0.07)	0.21	(0.11)	0.38	(0.25)	0.07	(0.05)	-0.29	(0.33)	-0.36	(0.
Greece	-0.99	(0.20)	-0.31	(0.10)	-0.40	(0.14)	0.58	(0.25)	-0.35	(0.08)	-1.37	(0.13)	-1.02	(0.
Hungary	-0.43	(0.30)	-0.22	(0.13)	-0.51	(0.11)	-0.07	(0.32)	-0.23	(0.09)	-0.91	(0.16)	-0.68	(0.
Iceland	-0.74	(0.01)	-0.41	(0.01)	0.09	(0.01)	0.83	(0.01)	-0.34 0.23	(0.00)	-0.09	(O 11)	m	(0.
Ireland Israel	-0.01 0.03	(0.16)	0.15 0.12	(0.09)	-0.08 0.01	(0.16) (0.12)	-0.06 -0.03	(0.22)	0.23 m	(0.10) m	-0.09 m	(0.11) m	-0.33 m	(0.
Italy	-0.32	(0.13)	-0.04	(0.03)	-0.08	(0.12)	0.24	(0.16)	-0.04	(0.06)	-0.43	(0.30)	-0.39	(0.3
Japan	С	С	-0.49	(0.13)	-0.54	(0.07)	m	m	-0.55	(0.08)	-0.49	(0.10)	0.05	(0.
Korea	С	С	-0.59	(0.27)	-0.24	(0.09)	m	m	-0.28	(0.10)	-0.31	(0.16)	-0.03	(0.2
Latvia	-0.09	(0.10)	0.15	(0.08)	0.18	(80.0)	0.27	(0.14)	0.12	(0.05)	-0.59	(0.38)	-0.71	(0.
Luxembourg	0.12	(0.12)	0.39	(0.00)	-0.12	(0.00)	0.44	(0.15)	0.23	(0.00)	-0.13	(0.00)	-0.36	(0.
Mexico Netherlands	-0.13	(0.12) c	0.29	(0.08)	0.30	(0.10)	0.44 m	(0.15) m	0.31	(0.05) (0.14)	-0.45 0.42	(0.11)	-0.76 0.06	(0.
New Zealand	0.09	(0.42)	0.32	(0.09)	0.01	(0.07)	-0.08	(0.43)	0.26	(0.05)	-1.55	(0.22)	-1.81	(0.
Norway	-0.27	(0.17)	-0.04	(0.07)	-0.12	(0.12)	0.16	(0.21)	-0.10	(0.06)	-0.49	(0.25)	-0.39	(0.
Poland [']	-0.08	(0.10)	-0.09	(0.10)	-0.03	(0.14)	0.05	(0.17)	-0.03	(0.06)	-1.41	(0.26)	-1.38	(0.
Portugal	-0.01	(0.22)	0.40	(0.07)	0.09	(0.15)	0.09	(0.28)	0.41	(0.06)	-1.19	(0.23)	-1.61	(0.
Slovak Republic	0.03	(0.13)	0.11	(0.07)	-0.01	(0.16)	-0.04 0.39	(0.22)	0.11	(0.07)	-0.16 0.18	(0.17)	-0.28 -0.13	(0.
Slovenia Spain	-0.12 -0.69	(0.14) (0.45)	0.33	(0.01)	0.27 -0.34	(0.01)	0.39	(0.14) (0.47)	0.31	(0.01)	-0.99	(0.00)	-0.13	(0.
Sweden	0.10	(0.26)	0.10	(0.07)	0.17	(0.12)	0.06	(0.29)	0.18	(0.06)	-0.19	(0.16)	-0.37	(0.
Switzerland	-0.52	(0.21)	-0.10	(0.08)	0.39	(0.14)	0.91	(0.26)	0.00	(0.07)	-0.75	(0.19)	-0.75	(0.
Turkey	1.00	(0.39)	0.13	(0.12)	0.18	(0.10)	-0.81	(0.40)	0.18	(0.08)	0.11	(0.33)	-0.07	(0.
United Kingdom	-0.55	(0.21)	-0.53	(0.08)	-0.40	(0.11)	0.16	(0.25)	-0.42	(0.06)	-1.37	(0.24)	-0.96	(0
United States OECD average	-0.14	(0.19)	0.23	(0.09)	0.34	(0.14)	0.32 0.19	(0.24)	0.39	(0.07)	-1.39 -0.55	(0.17)	-1.78 -0.68	(0.0
	-0.14	(0.04)	0.04	(0.02)	0.03	(0.02)	0.19	(0.03)	0.12	(0.01)		(0.03)	-0.00	(0.0
A II! -	0.07	(0.16)	0.51	(0.12)	0.70	(0.11)	0.17	(0.10)	0.50	(0.00)	1 20	(0.12)	0.00	(0
Albania	-0.87	(0.16)	-0.51	(0.13)	-0.70	(0.11)	0.17	(0.18)	-0.59	(0.09)	-1.29	(0.13)	-0.69	(0.
Algeria	-0.13	(0.24)	0.14	(0.12)	0.34	(0.31)	0.47	(0.40)	0.16	(0.11)	С	С	m	
Algeria Brazil		(0.24) (0.20)				(0.31) (0.11)	0.47 0.21	(0.40) (0.21)			c -1.05	(0.17)	m -1.86	(0.
Algeria	-0.13 0.30	(0.24)	0.14 0.60	(0.12) (0.09)	0.34 0.51	(0.31)	0.47	(0.40)	0.16 0.81	(0.11) (0.05)	С	С	m	(0.
Algeria Brazil B-S-J-G (China) Bulgaria CABA (Argentina)	-0.13 0.30 1.25 0.89	(0.24) (0.20) (0.69) (0.64) m	0.14 0.60 0.49 -0.02	(0.12) (0.09) (0.29) (0.11)	0.34 0.51 -0.10 -0.34 -0.10	(0.31) (0.11) (0.21) (0.17) (0.11)	0.47 0.21 -1.35 -1.22 m	(0.40) (0.21) (0.73) (0.66) m	0.16 0.81 0.29 -0.10 0.38	(0.11) (0.05) (0.20) (0.10) (0.19)	-1.05 0.63 c -0.67	(0.17) (0.47) c (0.17)	m -1.86 0.33 m -1.05	(0. (0.
Algeria Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia	-0.13 0.30 1.25 0.89 m 0.00	(0.24) (0.20) (0.69) (0.64) m (0.13)	0.14 0.60 0.49 -0.02 c 0.16	(0.12) (0.09) (0.29) (0.11) C (0.14)	0.34 0.51 -0.10 -0.34 -0.10 0.08	(0.31) (0.11) (0.21) (0.17) (0.11) (0.10)	0.47 0.21 -1.35 -1.22 m 0.08	(0.40) (0.21) (0.73) (0.66) m (0.18)	0.16 0.81 0.29 -0.10 0.38 0.31	(0.11) (0.05) (0.20) (0.10) (0.19) (0.08)	c -1.05 0.63 c -0.67 -0.52	C (0.17) (0.47) C (0.17) (0.16)	m -1.86 0.33 m -1.05 -0.83	(0. (0. (0.
Algeria Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica	-0.13 0.30 1.25 0.89 m 0.00 0.56	(0.24) (0.20) (0.69) (0.64) m (0.13) (0.20)	0.14 0.60 0.49 -0.02 c 0.16 0.83	(0.12) (0.09) (0.29) (0.11) c (0.14) (0.08)	0.34 0.51 -0.10 -0.34 -0.10 0.08 0.47	(0.31) (0.11) (0.21) (0.17) (0.11) (0.10) (0.22)	0.47 0.21 -1.35 -1.22 m 0.08 -0.09	(0.40) (0.21) (0.73) (0.66) m (0.18) (0.27)	0.16 0.81 0.29 -0.10 0.38 0.31 0.97	(0.11) (0.05) (0.20) (0.10) (0.19) (0.08) (0.07)	c -1.05 0.63 c -0.67 -0.52 -0.88	(0.17) (0.47) c (0.17) (0.16) (0.18)	m -1.86 0.33 m -1.05 -0.83 -1.85	(0. (0. (0.
Algeria Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia	-0.13 0.30 1.25 0.89 m 0.00 0.56	(0.24) (0.20) (0.69) (0.64) m (0.13) (0.20)	0.14 0.60 0.49 -0.02 c 0.16 0.83 1.00	(0.12) (0.09) (0.29) (0.11) c (0.14) (0.08) (0.08)	0.34 0.51 -0.10 -0.34 -0.10 0.08 0.47 0.97	(0.31) (0.11) (0.21) (0.17) (0.11) (0.10) (0.22) (0.16)	0.47 0.21 -1.35 -1.22 m 0.08 -0.09	(0.40) (0.21) (0.73) (0.66) m (0.18) (0.27)	0.16 0.81 0.29 -0.10 0.38 0.31 0.97 1.01	(0.11) (0.05) (0.20) (0.10) (0.19) (0.08) (0.07) (0.08)	c -1.05 0.63 c -0.67 -0.52 -0.88	(0.17) (0.47) c (0.17) (0.16) (0.18)	m -1.86 0.33 m -1.05 -0.83 -1.85	(0. (0. (0. (0. (0.
Algeria Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus*	-0.13 0.30 1.25 0.89 m 0.00 0.56 c -0.59	(0.24) (0.20) (0.69) (0.64) m (0.13) (0.20) c (0.01)	0.14 0.60 0.49 -0.02 c 0.16 0.83 1.00 0.15	(0.12) (0.09) (0.29) (0.11) c (0.14) (0.08) (0.08) (0.00)	0.34 0.51 -0.10 -0.34 -0.10 0.08 0.47 0.97 -0.06	(0.31) (0.11) (0.21) (0.17) (0.11) (0.10) (0.22) (0.16) (0.00)	0.47 0.21 -1.35 -1.22 m 0.08 -0.09 m	(0.40) (0.21) (0.73) (0.66) m (0.18) (0.27) m (0.01)	0.16 0.81 0.29 -0.10 0.38 0.31 0.97 1.01 0.20	(0.11) (0.05) (0.20) (0.10) (0.19) (0.08) (0.07) (0.08) (0.00)	C -1.05 0.63 C -0.67 -0.52 -0.88 C -0.77	(0.17) (0.47) c (0.17) (0.16) (0.18) c (0.01)	m -1.86 0.33 m -1.05 -0.83 -1.85 m -0.97	(0. (0. (0. (0. (0.
Algeria Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic	-0.13 0.30 1.25 0.89 m 0.00 0.56 c -0.59 -0.34	(0.24) (0.20) (0.69) (0.64) m (0.13) (0.20) c (0.01) (0.16)	0.14 0.60 0.49 -0.02 c 0.16 0.83 1.00 0.15 -0.01	(0.12) (0.09) (0.29) (0.11) c (0.14) (0.08) (0.08) (0.00) (0.09)	0.34 0.51 -0.10 -0.34 -0.10 0.08 0.47 0.97 -0.06 -0.38	(0.31) (0.11) (0.21) (0.17) (0.11) (0.10) (0.22) (0.16) (0.00) (0.15)	0.47 0.21 -1.35 -1.22 m 0.08 -0.09 m 0.52 -0.04	(0.40) (0.21) (0.73) (0.66) m (0.18) (0.27) m (0.01) (0.23)	0.16 0.81 0.29 -0.10 0.38 0.31 0.97 1.01 0.20 0.00	(0.11) (0.05) (0.20) (0.10) (0.19) (0.08) (0.07) (0.08) (0.00) (0.08)	c -1.05 0.63 c -0.67 -0.52 -0.88 c -0.77 -0.63	(0.17) (0.47) (0.47) c (0.17) (0.16) (0.18) c (0.01) (0.16)	m -1.86 0.33 m -1.05 -0.83 -1.85 m -0.97 -0.62	(0. (0. (0. (0. (0.
Algeria Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus*	-0.13 0.30 1.25 0.89 m 0.00 0.56 c -0.59	(0.24) (0.20) (0.69) (0.64) m (0.13) (0.20) c (0.01)	0.14 0.60 0.49 -0.02 c 0.16 0.83 1.00 0.15	(0.12) (0.09) (0.29) (0.11) c (0.14) (0.08) (0.08) (0.00)	0.34 0.51 -0.10 -0.34 -0.10 0.08 0.47 0.97 -0.06	(0.31) (0.11) (0.21) (0.17) (0.11) (0.10) (0.22) (0.16) (0.00)	0.47 0.21 -1.35 -1.22 m 0.08 -0.09 m	(0.40) (0.21) (0.73) (0.66) m (0.18) (0.27) m (0.01)	0.16 0.81 0.29 -0.10 0.38 0.31 0.97 1.01 0.20	(0.11) (0.05) (0.20) (0.10) (0.19) (0.08) (0.07) (0.08) (0.00)	C -1.05 0.63 C -0.67 -0.52 -0.88 C -0.77	(0.17) (0.47) c (0.17) (0.16) (0.18) c (0.01)	m -1.86 0.33 m -1.05 -0.83 -1.85 m -0.97	(0. (0. (0. (0. (0. (0. (0.
Algeria Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China)	-0.13 0.30 1.25 0.89 m 0.00 0.56 c -0.59 -0.34 0.23 -0.49 m	(0.24) (0.20) (0.69) (0.64) m (0.13) (0.20) c (0.01) (0.16) (0.01) (0.12) m	0.14 0.60 0.49 -0.02 c 0.16 0.83 1.00 0.15 -0.01 -0.29 -0.63 m	(0.12) (0.09) (0.29) (0.11) c (0.14) (0.08) (0.08) (0.00) (0.00) (0.09) (0.00) (0.12) m	0.34 0.51 -0.10 -0.34 -0.10 0.08 0.47 0.97 -0.06 -0.38 -0.26 -0.51 -0.75	(0.31) (0.11) (0.21) (0.17) (0.11) (0.10) (0.22) (0.16) (0.00) (0.15) (0.01) (0.15) (0.08)	0.47 0.21 -1.35 -1.22 m 0.08 -0.09 m 0.52 -0.04 -0.50 -0.02 m	(0.40) (0.21) (0.73) (0.66) m (0.18) (0.27) m (0.01) (0.23) (0.02) (0.20) m	0.16 0.81 0.29 -0.10 0.38 0.31 0.97 1.01 0.20 0.00 -0.25 -0.49 -0.83	(0.11) (0.05) (0.20) (0.10) (0.19) (0.08) (0.07) (0.08) (0.00) (0.00) (0.08) (0.01) (0.08) (0.035)	c -1.05 0.63 c -0.67 -0.52 -0.88 c -0.77 -0.63 -1.99 -1.13 -0.74	C (0.17) (0.47) C (0.17) (0.16) (0.18) C (0.01) (0.16) (0.01) (0.39) (0.08)	m -1.86 0.33 m -1.05 -0.83 -1.85 m -0.97 -0.62 -1.74 -0.64 0.09	(0. (0. (0. (0. (0. (0. (0. (0.
Algeria Brazil Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia	-0.13 0.30 1.25 0.89 m 0.00 0.56 c -0.59 -0.34 0.23 -0.49 m	(0.24) (0.20) (0.69) (0.64) m (0.13) (0.20) c (0.01) (0.16) (0.01) (0.12) m (0.14)	0.14 0.60 0.49 -0.02 c 0.16 0.83 1.00 0.15 -0.01 -0.29 -0.63 m -0.89	(0.12) (0.09) (0.29) (0.11) c (0.14) (0.08) (0.08) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00)	0.34 0.51 -0.10 -0.34 -0.10 0.08 0.47 0.97 -0.06 -0.38 -0.26 -0.51 -0.75 -1.06	(0.31) (0.11) (0.21) (0.17) (0.11) (0.10) (0.22) (0.16) (0.00) (0.15) (0.01) (0.01) (0.08) (0.16)	0.47 0.21 -1.35 -1.22 m 0.08 -0.09 m 0.52 -0.04 -0.04 -0.02 m	(0.40) (0.21) (0.73) (0.66) m (0.18) (0.27) m (0.01) (0.23) (0.02) (0.02) m (0.18)	0.16 0.81 0.29 -0.10 0.38 0.31 0.97 1.01 0.20 0.00 -0.25 -0.49 -0.83 -0.88	(0.11) (0.05) (0.20) (0.10) (0.19) (0.08) (0.07) (0.08) (0.00) (0.08) (0.01) (0.08) (0.35) (0.10)	c -1.05 0.63 c -0.67 -0.52 -0.88 c -0.77 -0.63 -1.99 -1.13 -0.74 -0.94	C (0.17) (0.47) C (0.17) (0.16) (0.18) C (0.01) (0.16) (0.01) (0.39) (0.08) (0.10)	m -1.86 0.33 m -1.05 -0.83 -1.85 m -0.97 -0.62 -1.74 -0.64 0.09 -0.06	(0. (0. (0. (0. (0. (0. (0. (0. (0.
Algeria Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan	-0.13 0.30 1.25 0.89 m 0.00 0.56 c -0.59 -0.34 0.23 -0.49 m -0.87	(0.24) (0.20) (0.69) (0.64) m (0.13) (0.20) c (0.01) (0.16) (0.01) (0.12) m (0.14) (0.22)	0.14 0.60 0.49 -0.02 c 0.16 0.83 1.00 0.15 -0.01 -0.29 -0.63 m	(0.12) (0.09) (0.29) (0.11) C (0.14) (0.08) (0.00) (0.00) (0.00) (0.00) (0.12) m (0.09) (0.13)	0.34 0.51 -0.10 -0.34 -0.10 0.08 0.47 0.97 -0.06 -0.38 -0.26 -0.51 -0.75 -1.06 0.13	(0.31) (0.11) (0.21) (0.17) (0.11) (0.10) (0.22) (0.16) (0.00) (0.15) (0.01) (0.08) (0.16) (0.16) (0.17)	0.47 0.21 -1.35 -1.22 m 0.08 -0.09 m 0.52 -0.04 -0.50 -0.02 m	(0.40) (0.21) (0.73) (0.66) m (0.18) (0.27) m (0.01) (0.23) (0.02) (0.20) m (0.18) (0.28)	0.16 0.81 0.29 -0.10 0.38 0.31 0.97 1.01 0.20 0.00 -0.25 -0.49 -0.83 -0.88 0.26	(0.11) (0.05) (0.20) (0.10) (0.19) (0.08) (0.07) (0.08) (0.00) (0.08) (0.01) (0.08) (0.35) (0.10) (0.11)	C -1.05 0.63	(0.17) (0.47) (0.17) (0.16) (0.18) (0.01) (0.16) (0.01) (0.01) (0.08) (0.08) (0.10) (0.13)	m -1.86 0.33 m -1.05 -0.83 -1.85 m -0.97 -0.62 -1.74 -0.64 0.09 -0.06 -0.72	(0. (0. (0. (0. (0. (0. (0. (0. (0.
Algeria Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo	-0.13 0.30 1.25 0.89 m 0.00 0.56 c -0.59 -0.34 0.23 -0.49 m -0.87 0.28 -0.48	(0.24) (0.20) (0.69) (0.64) m (0.13) (0.20) c (0.01) (0.16) (0.01) (0.12) m (0.14) (0.22) (0.13)	0.14 0.60 0.49 -0.02 c 0.16 0.83 1.00 0.15 -0.01 -0.29 -0.63 m -0.89 0.09 0.13	(0.12) (0.09) (0.29) (0.11) c (0.14) (0.08) (0.00) (0.00) (0.00) (0.00) (0.12) m (0.09) (0.13) (0.04)	0.34 0.51 -0.10 -0.34 -0.10 0.08 0.47 -0.97 -0.06 -0.38 -0.26 -0.51 -0.75 -1.06 0.13 0.13	(0.31) (0.11) (0.21) (0.17) (0.17) (0.11) (0.10) (0.22) (0.16) (0.00) (0.15) (0.01) (0.08) (0.16) (0.17) (0.08)	0.47 0.21 -1.35 -1.25 m 0.08 -0.09 m 0.52 -0.04 -0.50 -0.02 m -0.19	(0.40) (0.21) (0.73) (0.66) m (0.18) (0.27) m (0.01) (0.23) (0.02) (0.20) m (0.18) (0.23) (0.02) (0.20)	0.16 0.81 0.29 -0.10 0.38 0.31 0.97 1.01 0.20 -0.00 -0.25 -0.49 -0.83 -0.88 0.26 0.08	(0.11) (0.05) (0.20) (0.10) (0.19) (0.08) (0.07) (0.08) (0.00) (0.08) (0.01) (0.08) (0.35) (0.11) (0.11) (0.03)	c -1.05 0.63 c -0.67 -0.52 -0.88 c -0.77 -0.63 -1.99 -1.13 -0.74 -0.94 -0.45 -1.22	C (0.17) (0.47) C C (0.17) (0.16) (0.18) C (0.01) (0.16) (0.00) (0.01) (0.039) (0.08) (0.10) (0.13) (0.28)	m -1.86 0.33 m -1.05 -0.83 -1.85 m -0.97 -0.62 -1.74 -0.64 0.09 -0.06 -0.72 -1.30	(0. (0. (0. (0. (0. (0. (0. (0. (0. (0.
Algeria Brazil Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon	0.13 0.30 1.25 0.89 m 0.00 0.56 c -0.59 -0.34 0.23 -0.49 m -0.87 0.28 -0.48	(0.24) (0.20) (0.69) (0.64) m (0.13) (0.20) c (0.01) (0.16) (0.01) (0.12) m (0.14) (0.22) (0.13) (0.20)	0.14 0.60 0.49 -0.02 c 0.16 0.83 1.00 0.15 -0.01 -0.29 -0.63 m -0.89 0.09 0.13	(0.12) (0.09) (0.29) (0.11) c (0.14) (0.08) (0.00) (0.00) (0.00) (0.01) m (0.09) (0.13) (0.04) (0.11)	0.34 0.51 -0.10 -0.34 -0.10 0.08 0.47 -0.06 -0.38 -0.26 -0.51 -0.75 -1.06 0.13 -0.13	(0.31) (0.11) (0.21) (0.17) (0.11) (0.10) (0.22) (0.16) (0.00) (0.15) (0.08) (0.16) (0.16) (0.08) (0.16) (0.17)	0.47 0.21 -1.35 -1.22 m 0.08 -0.09 m 0.52 -0.04 -0.50 -0.02 m -0.16 0.61 0.21	(0.40) (0.21) (0.73) (0.66) m (0.18) (0.27) m (0.01) (0.23) (0.02) (0.20) m (0.18) (0.28) (0.28) (0.15) (0.21)	0.16 0.81 0.29 -0.10 0.38 0.31 0.97 1.01 0.20 0.00 -0.25 -0.49 -0.83 -0.88 0.26 0.08	(0.11) (0.05) (0.20) (0.10) (0.19) (0.08) (0.07) (0.08) (0.00) (0.08) (0.01) (0.08) (0.35) (0.10) (0.11) (0.03) (0.14)	c -1.05 0.63 c -0.67 -0.52 -0.88 c c -0.77 -0.63 -1.99 -1.13 -0.74 -0.94 -0.45 -1.22 -0.90	C (0.17) (0.47) c (0.17) (0.16) (0.16) (0.18) c (0.01) (0.16) (0.00) (0.08) (0.10) (0.10) (0.28) (0.09)	m -1.86 0.33 m -1.05 -0.83 -1.85 m -0.97 -0.62 -1.74 -0.64 0.09 -0.06 -0.72 -1.30 -0.35	(0. (0. (0. (0. (0. (0. (0. (0. (0. (0.
Algeria Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo	-0.13 0.30 1.25 0.89 m 0.00 0.56 c -0.59 -0.34 0.23 -0.49 m -0.87 0.28 -0.48	(0.24) (0.20) (0.69) (0.64) m (0.13) (0.20) c (0.01) (0.16) (0.01) (0.12) m (0.14) (0.22) (0.13)	0.14 0.60 0.49 -0.02 c 0.16 0.83 1.00 0.15 -0.01 -0.29 -0.63 m -0.89 0.09 0.13	(0.12) (0.09) (0.29) (0.11) c (0.14) (0.08) (0.00) (0.00) (0.00) (0.00) (0.12) m (0.09) (0.13) (0.04) (0.11) (0.08)	0.34 0.51 -0.10 -0.34 -0.10 0.08 0.47 -0.97 -0.06 -0.38 -0.26 -0.51 -0.75 -1.06 0.13 0.13 -0.59 -0.41	(0.31) (0.11) (0.21) (0.21) (0.17) (0.11) (0.10) (0.22) (0.16) (0.01) (0.01) (0.01) (0.15) (0.08) (0.16) (0.17) (0.06) (0.15) (0.09)	0.47 0.21 -1.35 -1.25 m 0.08 -0.09 m 0.52 -0.04 -0.50 -0.02 m -0.19	(0.40) (0.21) (0.73) (0.66) m (0.18) (0.27) m (0.01) (0.23) (0.02) (0.20) m (0.18) (0.23) (0.02) (0.20)	0.16 0.81 0.29 -0.10 0.38 0.31 0.97 1.01 0.20 -0.00 -0.25 -0.49 -0.83 -0.88 0.26 0.08	(0.11) (0.05) (0.20) (0.10) (0.19) (0.08) (0.07) (0.08) (0.01) (0.08) (0.35) (0.11) (0.10) (0.11) (0.03) (0.14) (0.03)	C -1.05 0.63 C -0.67 -0.52 -0.88 C -0.77 -0.63 -1.93 -0.74 -0.94 -0.45 -1.22 -0.90 -1.17	C (0.17) (0.47) C C (0.17) (0.16) (0.18) C (0.01) (0.16) (0.00) (0.01) (0.039) (0.08) (0.10) (0.13) (0.28)	m -1.86 0.33 m -1.05 -0.83 -1.85 m -0.97 -0.62 -1.74 -0.64 0.09 -0.06 -0.72 -1.30	(0. (0. (0. (0. (0. (0. (0. (0. (0. (0.
Algeria Brazil Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta	-0.13 0.30 1.25 0.89 m 0.00 0.56 c -0.59 -0.34 0.23 -0.49 m -0.87 0.28 -0.48 -0.49 -0.49 -0.49 -0.49 -0.40	(0.24) (0.20) (0.69) (0.64) m (0.13) (0.20) c (0.01) (0.16) (0.01) (0.12) m (0.14) (0.22) (0.13) (0.20) (0.10) c	0.14 0.60 0.49 -0.02 c 0.16 0.83 1.00 0.15 -0.01 -0.29 -0.63 m -0.89 0.09 0.13 -0.80 -0.13 c -0.56	(0.12) (0.09) (0.29) (0.11) c (0.14) (0.08) (0.00) (0.00) (0.00) (0.01) m (0.09) (0.13) (0.04) (0.11)	0.34 0.51 -0.10 -0.34 -0.10 0.08 0.47 -0.06 -0.38 -0.26 -0.51 -0.75 -1.06 0.13 -0.13	(0.31) (0.11) (0.21) (0.17) (0.11) (0.10) (0.22) (0.16) (0.00) (0.15) (0.08) (0.16) (0.16) (0.08) (0.16) (0.17)	0.47 0.21 -1.35 -1.22 m 0.08 -0.09 m 0.52 -0.04 -0.02 m -0.19 -0.16 0.61 0.21 -0.18 m	(0.40) (0.21) (0.73) (0.66) m (0.18) (0.27) m (0.01) (0.23) (0.02) (0.20) (0.18) (0.28) (0.18) (0.21) (0.14)	0.16 0.81 0.29 -0.10 0.38 0.31 0.97 1.01 0.20 -0.00 -0.25 -0.49 -0.83 -0.88 0.26 -0.97 -0.97 -0.00 -0.25 -0.49 -0.10 -0.1	(0.11) (0.05) (0.20) (0.10) (0.19) (0.08) (0.07) (0.08) (0.00) (0.08) (0.01) (0.08) (0.35) (0.10) (0.11) (0.03) (0.14)	c -1.05 0.63 c -0.67 -0.52 -0.88 c c -0.77 -0.63 -1.99 -1.13 -0.74 -0.94 -0.45 -1.22 -0.90	C (0.17) (0.47) C (0.17) (0.16) (0.16) (0.16) (0.01) (0.016) (0.01) (0.039) (0.08) (0.10) (0.13) (0.28) (0.09) (0.49)	m -1.86 0.33 m -1.05 -0.83 -1.85 m -0.97 -0.62 -1.74 -0.66 -0.72 -1.30 -0.35 -0.93	(0. (0. (0. (0. (0. (0. (0. (0. (0. (0.
Algeria Brazil Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova	-0.13 0.30 1.25 0.89 m 0.00 0.56 c -0.59 -0.34 0.23 -0.49 m 0.28 -0.48 -0.48 -0.80 -0.24 c	(0.24) (0.20) (0.69) (0.64) m (0.20) c (0.01) (0.16) (0.01) (0.12) m (0.14) (0.22) (0.13) (0.20) (0.10) c	0.14 0.60 0.49 -0.02 c 0.16 0.83 1.00 0.15 -0.01 -0.29 -0.63 m -0.89 0.09 0.13 -0.30 -0.13 c	(0.12) (0.09) (0.29) (0.11) c (0.14) (0.08) (0.00) (0.00) (0.12) m (0.09) (0.13) (0.04) (0.14) (0.08) c (0.00) (0.18)	0.34 0.51 -0.10 -0.34 -0.10 0.08 -0.47 -0.97 -0.06 -0.38 -0.26 -0.51 -0.75 -1.06 0.13 0.13 -0.59 -0.41 -0.53 -0.14	(0.31) (0.11) (0.21) (0.21) (0.17) (0.11) (0.12) (0.16) (0.00) (0.15) (0.01) (0.15) (0.08) (0.16) (0.17) (0.06) (0.15) (0.09) (0.09) (0.00)	0.47 0.21 -1.35 -1.22 m 0.08 -0.09 m 0.52 -0.04 -0.50 -0.02 m -0.19 -0.16 0.61 0.21 -0.18 m	(0.40) (0.21) (0.73) (0.66) m (0.18) (0.27) m (0.01) (0.23) (0.02) (0.20) (0.18) (0.28) (0.15) (0.14) m m (0.14)	0.16 0.81 0.29 -0.10 0.38 0.31 0.97 1.01 0.20 -0.00 -0.25 -0.49 -0.88 0.26 0.08 -0.55 -0.24 c	(0.11) (0.05) (0.20) (0.10) (0.11) (0.08) (0.00) (0.08) (0.01) (0.08) (0.11) (0.11) (0.13) (0.14) (0.14) (0.05) c	c -1.05 0.63 c -0.67 -0.52 -0.88 c -0.77 -0.63 -1.99 -1.13 -0.74 -0.94 -0.45 -1.22 -0.90 -1.17 -0.58 -1.24 c	C (0.17) (0.47) (0.47) (0.17) (0.16) (0.18) (0.18) (0.16) (0.01) (0.39) (0.08) (0.10) (0.13) (0.28) (0.09) (0.49) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00)	m -1.86	(0. (0. (0. (0. (0. (0. (0. (0. (0. (0.
Algeria Brazil Brazil Brazil B-S-J-C (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro	-0.13 0.30 1.25 0.89 m 0.00 0.56 c -0.59 -0.34 0.23 -0.49 m -0.87 0.28 -0.48 -0.24 c -0.24 c	(0.24) (0.20) (0.69) (0.64) m (0.13) (0.20) (0.01) (0.11) (0.12) m (0.14) (0.22) (0.13) (0.20) (0.10) (0.10) (0.10) (0.10) (0.10) (0.10) (0.20) (0.10) (0.20)	0.14 0.60 0.49 -0.02 c 0.16 0.83 1.00 0.15 -0.01 -0.29 -0.63 m -0.89 0.09 0.13 -0.83 c -0.15 -0.16 -0.16 -0.16 -0.16 -0.17 -0.17 -0.18 -0.18 -0.18 -0.18 -0.19 -0.10 -0.19 -0.19 -0.19 -0.19 -0.19 -0.10 -0	(0.12) (0.09) (0.29) (0.11) c (0.14) (0.08) (0.00) (0.00) (0.12) m (0.09) (0.13) (0.04) (0.11) (0.08) c (0.00) (0.08)	0.34 0.51 -0.10 -0.34 -0.10 0.08 0.47 -0.97 -0.06 -0.38 -0.26 -0.51 -0.75 -1.06 0.13 0.13 -0.59 -0.41 -0.53 m	(0.31) (0.11) (0.17) (0.17) (0.11) (0.10) (0.22) (0.16) (0.00) (0.15) (0.01) (0.15) (0.06) (0.17) (0.06) (0.19) (0.00) m (0.11) (0.00)	0.47 0.21 -1.35 -1.22 m 0.08 -0.09 m 0.52 -0.02 m -0.50 -0.02 m m -0.16 0.61 0.21 -0.18 m m	(0.40) (0.21) (0.73) (0.66) m (0.18) (0.27) m (0.01) (0.02) (0.02) (0.20) m (0.18) (0.28) (0.15) (0.21) (0.14) m	0.16 0.81 0.29 -0.10 0.38 0.31 0.97 1.01 0.20 0.00 -0.25 -0.49 -0.83 -0.88 -0.55 -0.24 c -0.13 0.31 0.90 0	(0.11) (0.05) (0.20) (0.10) (0.19) (0.07) (0.08) (0.00) (0.08) (0.01) (0.08) (0.10) (0.11) (0.03) (0.14) (0.05) (0.00) (0.00)	C -1.05 0.63 c -0.67 -0.52 -0.88 c -0.77 -0.63 -1.99 -1.13 -0.74 -0.94 -0.45 -1.22 -0.90 -1.17 -0.58 -1.24 c c c	C (0.17) (0.47) C (0.17) (0.16) (0.18) C (0.01) (0.18) (0.08) (0.18) (0.28) (0.09) (0.49) (0.00) C C C	m -1.86 0.33 m -1.05 -0.83 -1.85 m -0.97 -0.62 -1.74 -0.64 0.09 -0.06 -0.72 -1.30 -0.35 -0.93 m -1.11 m m	(0. (0. (0. (0. (0. (0. (0. (0. (0. (0.
Algeria Brazil Brazil Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru	-0.13 0.30 1.25 0.89 m 0.00 0.56 c -0.59 -0.34 0.23 -0.49 m -0.87 0.28 -0.48 -0.80 -0.24 c -0.39 0.23 c -0.55	(0.24) (0.20) (0.69) (0.69) (0.64) m (0.20) c (0.01) (0.16) (0.01) (0.12) m (0.13) (0.22) (0.10) (0.20) (0.01) (0.09) (0.001)	0.14 0.60 0.49 -0.02 c 0.16 0.83 1.00 0.15 -0.01 -0.29 -0.63 m -0.89 0.09 0.13 -0.80 -0.13 c -0.59 -0.47 0.52 -0.47	(0.12) (0.09) (0.29) (0.11) c (0.14) (0.08) (0.09) (0.00) (0.12) m (0.09) (0.11) (0.08) c (0.00) (0.18) (0.01) (0.18) (0.01)	0.34 0.51 -0.10 -0.34 -0.10 0.08 0.47 0.97 -0.06 -0.38 -0.26 -0.51 -1.06 0.13 -0.59 -0.41 -0.59 -0.41 -0.59	(0.31) (0.11) (0.21) (0.21) (0.17) (0.11) (0.10) (0.22) (0.16) (0.00) (0.15) (0.01) (0.00) (0	0.47 0.21 -1.35 -1.22 m 0.08 -0.09 m 0.52 -0.04 -0.50 -0.19 -0.16 0.61 0.21 -0.18 m -0.09 m	(0.40) (0.21) (0.73) (0.66) m (0.18) (0.27) m (0.01) (0.23) (0.02) (0.20) m (0.18) (0.18) (0.15) (0.14) m m (0.14) m m (0.14)	0.16 0.81 0.29 -0.10 0.38 0.31 0.97 1.01 0.20 -0.25 -0.49 -0.83 -0.88 0.26 -0.68 -0.55 -0.24 -0.13 0.31 0.50 -0.00	(0.11) (0.05) (0.20) (0.10) (0.19) (0.08) (0.07) (0.08) (0.01) (0.08) (0.01) (0.08) (0.10) (0.11) (0.11) (0.05) c (0.00) (0.07) (0.07)	c -1.05	C (0.17) (0.47) C (0.17) (0.16) C (0.16) (0.18) C (0.01) (0.16) (0.01) (0.39) (0.08) (0.08) (0.08) (0.28) (0.29) (0.49) (0.00) (0.00) C C (0.11)	m -1.86 0.33 m -1.05 -0.83 -1.85 m -0.97 -0.62 -1.74 -0.64 0.09 -0.06 -0.72 -1.30 -0.35 -0.93 m -1.11 m m -0.97	(0. (0. (0. (0. (0. (0. (0. (0. (0. (0.
Algeria Brazil Brazil Brazil B-S-J-C (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar	-0.13 0.30 1.25 0.89 m 0.00 0.56 c -0.59 -0.34 0.23 -0.49 m -0.87 0.28 -0.49 -0.24 c -0.29 -0.24 c -0.59 -0.25 -0.59 -0.34 -0.49 -0.80 -0.24 -0.80 -0.23 -0.49 -0.80 -	(0.24) (0.20) (0.69) (0.69) (0.64) m (0.20) c (0.01) (0.16) (0.01) (0.12) m (0.14) (0.22) (0.13) (0.20) (0.10) c	0.14 0.60 0.49 -0.02 c 0.16 0.83 1.00 0.15 -0.01 -0.29 -0.63 m -0.89 0.09 0.13 c -0.13 c -0.59 -0.47 0.52 -0.59 -0.59	(0.12) (0.09) (0.29) (0.11) c (0.14) (0.08) (0.09) (0.00) (0.12) m (0.09) (0.13) (0.04) (0.11) (0.08) c (0.00) (0.18) (0.01) (0.10) (0.10) (0.10) (0.10) (0.10) (0.10) (0.10) (0.10) (0.10) (0.00)	0.34 0.51 -0.10 -0.34 -0.10 0.08 0.47 0.97 -0.06 -0.38 -0.26 -0.51 -0.75 -1.06 0.13 0.13 0.13 -0.59 -0.41 -0.53 m 0.14 -0.47 -0.53 -0.51 -0.51 -0.51 -0.51 -0.55 -0.15 -	(0.31) (0.11) (0.21) (0.21) (0.17) (0.11) (0.12) (0.16) (0.00) (0.15) (0.08) (0.16) (0.17) (0.06) (0.15) (0.09) (0.09) (0.00) m (0.11) (0.01)	0.47 0.21 -1.35 -1.22 m 0.08 -0.09 m 0.52 -0.04 -0.50 -0.02 m -0.19 -0.16 0.61 0.21 -0.18 m m -0.09 m	(0.40) (0.21) (0.73) (0.66) m (0.18) (0.27) m (0.01) (0.23) (0.02) (0.20) (0.18) (0.28) (0.15) (0.21) (0.14) m (0.14) m	0.16 0.81 0.29 -0.10 0.38 0.31 0.97 1.01 0.20 -0.25 -0.49 -0.88 0.26 0.08 0.55 -0.24 c 1.01 0.00 -0.25 -0.49 -0.55 -0.49 -0.55 -0.24 -0.31 0.3	(0.11) (0.05) (0.20) (0.10) (0.11) (0.08) (0.00) (0.08) (0.01) (0.08) (0.01) (0.08) (0.35) (0.10) (0.11) (0.03) (0.14) (0.05) (0.00) (0.00) (0.00) (0.00)	c -1.05 0.63 c -0.67 -0.52 -0.88 c -0.77 -0.63 -1.99 -1.13 -0.74 -0.45 -1.22 -0.90 -1.17 -0.58 -1.24 c c -1.00 -0.58	C (0.17) (0.47) C (0.17) (0.16) C (0.18) C (0.01) (0.16) (0.01) (0.39) (0.08) (0.10) (0.13) (0.28) (0.09) (0.49) (0.00) C C C (0.11) (0.00)	m -1.86 0.33 m -1.05 -0.83 -1.85 m -0.97 -0.62 -1.74 -0.64 -0.09 -0.06 -0.72 -1.30 m -0.93 m -1.11 m m -0.97 -0.42	(0. (0. (0. (0. (0. (0. (0. (0. (0. (0.
Algeria Brazil Brazil Brazil Brazil Brazil B-S-J-C (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania	-0.13 0.30 1.25 0.89 m 0.00 0.56 c -0.59 -0.34 0.23 -0.49 m -0.87 0.28 -0.48 -0.80 -0.24 c -0.39 -0.39 -0.48 -0.4	(0.24) (0.20) (0.69) (0.69) (0.64) m (0.13) (0.20) (0.01) (0.112) m (0.14) (0.22) (0.13) (0.20) (0.10) c (0.01) (0.10) (0.01) (0.01) (0.01) (0.01) (0.01) (0.01)	0.14 0.60 0.49 -0.02 c 0.16 0.83 1.00 0.15 -0.01 -0.29 -0.63 m 0.09 0.13 -0.80 0.13 c -0.59 0.47 0.52 -0.19 0.47 0.52 -0.19 0.63	(0.12) (0.09) (0.19) (0.29) (0.29) (0.11) c (0.14) (0.08) (0.08) (0.00) (0.12) m (0.09) (0.13) (0.04) (0.11) (0.08) c (0.00) (0.18) (0.18) (0.19) (0.19) (0.19) (0.19) (0.19) (0.19) (0.19) (0.19) (0.19) (0.19) (0.19) (0.19) (0.19) (0.19) (0.19) (0.19)	0.34 0.51 -0.10 -0.34 -0.10 0.08 0.47 -0.97 -0.06 -0.38 -0.26 -0.51 -0.75 -1.06 0.13 0.13 -0.59 -0.41 -0.53 m 0.47 -0.53 -1.15 -0.37	(0.31) (0.11) (0.17) (0.17) (0.11) (0.10) (0.22) (0.16) (0.00) (0.15) (0.01) (0.15) (0.06) (0.17) (0.06) (0.17) (0.09) (0.00) m (0.11) (0.11) (0.01)	0.47 0.21 -1.35 -1.22 m 0.08 -0.09 m 0.52 -0.04 -0.50 -0.02 m -0.19 -0.16 0.61 0.21 -0.18 m -0.09 m	(0.40) (0.21) (0.73) (0.66) m (0.18) (0.27) m (0.01) (0.23) (0.02) (0.20) m (0.18) (0.28) (0.15) (0.21) (0.14) m (0.14) m (0.29) (0.02) (0.21)	0.16 0.81 0.29 -0.10 0.38 0.31 0.97 1.01 0.20 0.00 -0.25 -0.49 -0.88 0.26 0.08 -0.55 -0.24 c -0.13 0.31 0.50 -0.00	(0.11) (0.05) (0.20) (0.10) (0.19) (0.08) (0.07) (0.08) (0.01) (0.08) (0.35) (0.11) (0.03) (0.11) (0.05) c (0.00) (0.07)	C -1.05 0.63	C (0.17) (0.47) C (0.17) (0.47) C (0.17) (0.16) (0.18) C (0.01) (0.39) (0.08) (0.10) (0.13) (0.28) (0.09) (0.00) C C (0.11) (0.00) C C (0.11) (0.00) C	m -1.86 0.33 m -1.05 -0.83 -1.85 m -0.97 -0.64 0.09 -0.06 -0.72 -1.30 -0.35 -0.93 m -1.11 m m -0.97 0.42	(0. (0. (0. (0. (0. (0. (0. (0. (0. (0.
Algeria Brazil Brazil Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia	-0.13 0.30 1.25 0.89 m 0.00 0.56 c -0.59 -0.34 0.23 -0.49 m -0.87 0.28 -0.48 -0.80 -0.24 c -0.39 0.23 -0.63 0.24 0.73	(0.24) (0.20) (0.69) (0.69) (0.64) m (0.20) c (0.01) (0.16) (0.01) (0.12) m (0.13) (0.22) (0.10) c (0.01) (0.00) (0.01) (0.01) (0.01) (0.01) (0.01) (0.01)	0.14 0.60 0.49 -0.02 c 0.16 0.83 1.00 0.15 -0.01 -0.29 -0.63 m -0.89 0.09 0.13 -0.80 -0.13 c -0.59 0.49 0.49 0.59 0.19 0.19 0.10 0	(0.12) (0.09) (0.29) (0.11) c (0.14) (0.08) (0.00) (0.00) (0.12) m (0.09) (0.11) (0.08) c (0.00) (0.18) (0.01) (0.10) (0.10) (0.10) (0.10) (0.10) (0.10) (0.11) (0.10) (0.11) (0.10) (0.11) (0.11) (0.10) (0.11)	0.34 0.51 -0.10 -0.34 -0.10 0.08 0.47 0.97 -0.06 -0.38 -0.26 -0.51 -0.75 -1.06 0.13 -0.59 -0.41 -0.53 m 0.14 0.47 -0.53 -1.15 -0.37 -0.66	(0.31) (0.11) (0.21) (0.21) (0.17) (0.11) (0.10) (0.22) (0.16) (0.00) (0.15) (0.01) (0.08) (0.16) (0.06) (0.00) (0	0.47 0.21 -1.35 -1.22 m 0.08 -0.09 m 0.52 -0.04 -0.50 -0.02 m -0.19 -0.18 m m -0.09 m -0.10 -0.11 -0.06	(0.40) (0.21) (0.23) (0.66) m (0.18) (0.27) m (0.01) (0.23) (0.02) (0.20) m (0.18) (0.15) (0.15) (0.14) m m (0.144) m (0.144) m (0.149) (0.01) (0.01) (0.01)	0.16 0.81 0.29 -0.10 0.38 0.31 0.97 1.01 0.20 0.00 -0.25 -0.49 -0.83 -0.88 0.26 0.08 -0.55 -0.24 -0.13 0.31 0.50 -0.02 -1.00 -0.06	(0.11) (0.05) (0.20) (0.10) (0.19) (0.08) (0.07) (0.08) (0.01) (0.08) (0.10) (0.35) (0.10) (0.11) (0.03) (0.14) (0.05) c (0.00) (0.07) (0.00) (0.07) (0.09) (0.00) (0.00)	C -1.05 0.63 c -0.67 -0.52 -0.88 c -0.77 -0.63 -1.99 -1.13 -0.74 -0.94 -0.45 -1.22 -0.90 -1.17 -0.58 -1.24 c c c -1.00 -0.58 c c	C (0.17) (0.47) C (0.47) C (0.17) (0.16) (0.18) C (0.01) (0.16) (0.01) (0.13) (0.08) (0.08) (0.09) (0.49) (0.00) C C (0.11) (0.00) C C C (0.11) (0.00) C C C	m -1.86 0.33 m -1.05 -0.83 -1.85 m -0.97 0.62 -1.74 -0.64 0.09 -0.06 -0.72 -1.30 -0.35 -0.93 m m -1.11 m m -0.97 0.42 m m	(0. (0. (0. (0. (0. (0. (0. (0. (0. (0.
Algeria Brazil Brazil Brazil Brazil Brazil B-S-J-C (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania	-0.13 0.30 1.25 0.89 m 0.00 0.56 c -0.59 -0.34 0.23 -0.49 m -0.87 0.28 -0.48 -0.80 -0.24 c -0.39 -0.39 -0.48 -0.4	(0.24) (0.20) (0.69) (0.69) (0.64) m (0.13) (0.20) (0.01) (0.112) m (0.14) (0.22) (0.13) (0.20) (0.10) c (0.01) (0.10) (0.01) (0.01) (0.01) (0.01) (0.01) (0.01)	0.14 0.60 0.49 -0.02 c 0.16 0.83 1.00 0.15 -0.01 -0.29 -0.63 m 0.09 0.13 -0.80 0.13 c -0.59 0.47 0.52 -0.19 0.47 0.52 -0.19 0.63	(0.12) (0.09) (0.29) (0.11) c (0.14) (0.08) (0.09) (0.00) (0.12) m (0.01) (0.11) (0.08) c (0.00) (0.11) (0.08) (0.00) (0.11) (0.00) (0.10) (0.10) (0.10) (0.10) (0.10) (0.10) (0.10)	0.34 0.51 -0.10 -0.34 -0.10 0.08 0.47 -0.97 -0.06 -0.38 -0.26 -0.51 -0.75 -1.06 0.13 0.13 -0.59 -0.41 -0.53 m 0.47 -0.53 -1.15 -0.37	(0.31) (0.11) (0.17) (0.17) (0.11) (0.10) (0.22) (0.16) (0.00) (0.15) (0.01) (0.15) (0.06) (0.17) (0.06) (0.17) (0.09) (0.00) m (0.11) (0.11) (0.01)	0.47 0.21 -1.35 -1.22 m 0.08 -0.09 m 0.52 -0.04 -0.50 -0.02 m -0.19 -0.16 0.61 0.21 -0.18 m -0.09 m	(0.40) (0.21) (0.73) (0.66) m (0.18) (0.27) m (0.01) (0.23) (0.02) (0.20) m (0.18) (0.28) (0.15) (0.21) (0.14) m (0.14) m (0.29) (0.02) (0.21)	0.16 0.81 0.29 -0.10 0.38 0.31 0.97 1.01 0.20 0.00 -0.25 -0.49 -0.88 0.26 0.08 -0.55 -0.24 c -0.13 0.31 0.50 -0.00	(0.11) (0.05) (0.20) (0.10) (0.19) (0.08) (0.07) (0.08) (0.01) (0.08) (0.35) (0.11) (0.03) (0.11) (0.05) c (0.00) (0.07)	C -1.05 0.63	C (0.17) (0.47) C (0.17) (0.47) C (0.17) (0.16) (0.18) C (0.01) (0.39) (0.08) (0.10) (0.13) (0.28) (0.09) (0.00) C C (0.11) (0.00) C C (0.11) (0.00) C	m -1.86 0.33 m -1.05 -0.83 -1.85 m -0.97 -0.64 0.09 -0.06 -0.72 -1.30 -0.35 -0.93 m -1.11 m m -0.97 0.42	(0. (0. (0. (0. (0. (0. (0. (0. (0. (0.
Algeria Brazil Brazil Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand	-0.13 0.30 1.25 0.89 m 0.00 0.56 c -0.59 -0.34 0.23 -0.49 m -0.87 0.28 -0.48 -0.80 -0.24 c -0.59 0.23 c -0.55 -0.63 0.24 0.73 m	(0.24) (0.20) (0.20) (0.69) (0.69) (0.69) (0.64) m (0.13) (0.20) c (0.01) (0.16) (0.01) (0.12) m (0.14) (0.22) (0.13) (0.20) (0.10) c (0.01) (0.09) c (0.16) (0.01) (0.15) (0.15) m	0.14 0.60 0.49 -0.02 c 0.16 0.83 1.00 0.15 -0.01 -0.29 -0.63 m -0.89 0.09 0.13 -0.80 -0.13 c -0.52 -0.52 0.47 0.52 0.63 0.75	(0.12) (0.09) (0.29) (0.11) c (0.14) (0.08) (0.00) (0.00) (0.12) m (0.09) (0.11) (0.08) c (0.00) (0.18) (0.01) (0.10) (0.10) (0.10) (0.10) (0.10) (0.10) (0.11) (0.10) (0.11) (0.10) (0.11) (0.11) (0.10) (0.11)	0.34 0.51 -0.10 -0.34 -0.10 0.08 0.47 0.97 -0.06 -0.38 -0.26 -0.51 -0.75 -1.06 0.13 0.13 -0.59 -0.41 -0.53 m 0.14 0.47 0.59 -0.41 -0.53 -0.53 -0.53 -0.53 -0.54 -0.53 -0.54 -0.55 -0	(0.31) (0.11) (0.21) (0.21) (0.17) (0.11) (0.10) (0.22) (0.16) (0.00) (0.15) (0.08) (0.16) (0.17) (0.06) (0.15) (0.09) (0.09) (0.09) (0.09) (0.01) (0.10) (0.11) (0.01) (0.02) (0.02) (0.00) (0.15)	0.47 0.21 -1.35 -1.22 m 0.08 -0.09 m 0.52 -0.04 -0.50 -0.02 m -0.19 -0.16 0.61 -0.09 m 0.02 -0.09 m -0.09 m m -0.09 m m -0.09 m m -0.09	(0.40) (0.21) (0.27) (0.66) m (0.18) (0.27) m (0.01) (0.23) (0.02) (0.20) m (0.18) (0.28) (0.15) (0.21) (0.14) m (0.14) m (0.29) (0.20) (0.20) (0.20) m m (0.15) (0.21) (0.14) m m (0.14) m m (0.29) (0.15) (0.21) (0.27) (0.27) (0.27) m	0.16 0.81 0.29 -0.10 0.38 0.31 0.97 1.01 0.20 -0.00 -0.25 -0.49 -0.83 -0.88 0.26 0.08 -0.55 -0.24 -1.00 -0.02 -1.00 -0.02 -1.00 -0.06 -0.69 -0.63	(0.11) (0.05) (0.20) (0.10) (0.11) (0.08) (0.07) (0.08) (0.01) (0.08) (0.01) (0.11) (0.035) (0.10) (0.07) (0.07) (0.07) (0.09) (c -1.05	C (0.17) (0.47) C (0.17) (0.16) C (0.11) (0.18) C (0.01) (0.16) (0.01) (0.39) (0.08) (0.10) (0.13) (0.28) (0.09) (0.49) (0.00) C C C (0.11) (0.00) C C C (0.26)	m -1.86	(0. (0. (0. (0. (0. (0. (0. (0. (0. (0.
Algeria Brazil Brazil Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	-0.13 0.30 1.25 0.89 m 0.00 0.56 c -0.59 -0.34 0.23 -0.49 m -0.87 0.28 -0.48 -0.80 -0.24 c -0.59 0.33 c -0.55 -0.63 0.24 0.73 m c -0.10 0.92	(0.24) (0.20) (0.20) (0.69) (0.69) (0.69) (0.64) m (0.13) (0.20) c (0.01) (0.16) (0.01) (0.12) m (0.14) (0.22) (0.13) (0.20) (0.10) c (0.01) (0.09) c c (0.16) (0.01) (0.15) m c (0.01) (0.15) (0.15) m (0.01) (0.15) (0.15) m (0.01) (0.01)	0.14 0.60 0.49 -0.02 c 0.16 0.83 1.00 0.15 -0.01 -0.29 -0.63 m -0.89 0.09 0.13 -0.80 -0.13 c -0.59 0.47 0.52 0.73 0.75 0	(0.12) (0.09) (0.29) (0.11) c (0.14) (0.08) (0.09) (0.00) (0.12) m (0.01) (0.01) (0.01) (0.01) (0.11) (0.08) (0.01) (0.10) (0.10) (0.10) (0.10) (0.10) (0.17) m (0.14) (0.07) (0.01)	0.34 0.51 -0.10 -0.34 -0.10 0.08 0.47 0.97 -0.06 -0.38 -0.26 -0.55 -1.06 0.13 0.13 -0.59 -0.41 -0.53 m 0.14 0.47 0.68 -0.66 -0.75 -0.66 -0.78 -0.66 -0.78 -0.66 -0.78 -0.66 -0.78	(0.31) (0.11) (0.11) (0.11) (0.17) (0.17) (0.17) (0.11) (0.10) (0.22) (0.16) (0.00) (0.15) (0.01) (0.05) (0.01) (0.05) (0.06) (0.05) (0.06) (0.15) (0.09) (0.00) (0.16) (0.17) (0.09) (0.00) (0.16) (0.22) (0.00) (0.16) (0.22) (0.00) (0.16) (0.22) (0.02) (0.12) (0.12) (0.12)	0.47 0.21 -1.35 -1.22 m 0.08 -0.09 m 0.52 -0.04 -0.50 -0.02 m -0.19 -0.16 0.61 -0.09 m 0.02 -0.51 -0.61 -0.06 m m -0.04	(0.40) (0.21) (0.21) (0.73) (0.66) m (0.18) (0.27) m (0.01) (0.23) (0.02) (0.20) m (0.18) (0.21) (0.14) m (0.14) m (0.29) (0.21) (0.21) (0.21) (0.21) (0.21) (0.21) (0.21) (0.21) (0.21) (0.21) m m (0.24) m m m (0.29) (0.21) (0.21) (0.21) (0.21) (0.21) (0.21) (0.21) (0.21) (0.21) m m m m (0.24) m m	0.16 0.81 0.29 -0.10 0.38 0.31 0.97 1.01 0.20 -0.25 -0.49 -0.83 -0.88 0.26 -0.55 -0.24 -0.13 0.31 0.50 -0.02 -1.00 -0.06 -0.63 -0.68 -0.68 -0.07	(0.11) (0.05) (0.20) (0.10) (0.19) (0.08) (0.07) (0.08) (0.01) (0.08) (0.01) (0.11) (0.03) (0.14) (0.05) (0.07) (0.07) (0.09) (0	c -1.05	(0.17) (0.47) (0.47) (0.16) (0.18) (0.01) (0.01) (0.01) (0.08) (0.08) (0.08) (0.09) (0.49) (0.00) (0	m -1.86	(0. (0. (0. (0. (0. (0. (0. (0. (0. (0.
Algeria Brazil Brazil Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	-0.13 0.30 1.25 0.89 m 0.00 0.56 c -0.59 -0.34 0.23 -0.49 m -0.87 0.28 -0.48 -0.80 -0.24 c -0.59 0.23 c -0.59	(0.24) (0.20) (0.20) (0.69) (0.69) (0.69) (0.64) m (0.13) (0.20) c (0.01) (0.16) (0.01) (0.12) m (0.14) (0.22) (0.13) (0.20) (0.10) c (0.01) (0.01) (0.09) c (0.16) (0.01) (0.15) m c (0.17) (0.01) (0.15) m (0.20) (0.17) (0.01)	0.14 0.60 0.49 -0.02 c 0.16 0.83 1.00 0.15 -0.01 -0.29 -0.63 m -0.89 0.09 0.13 c -0.13 c -0.52 -0.19 -0.53 0.06 0.73 m -0.52 -0.19 -0.53 0.06 0.10 -0.10	(0.12) (0.09) (0.19) (0.29) (0.29) (0.11) c (0.14) (0.08) (0.00) (0.00) (0.12) m (0.00) (0.13) (0.04) (0.11) (0.11) (0.08) c (0.00) (0.18) (0.01) (0.10) (0.10) (0.17) m (0.11) (0.17) m (0.14) (0.07) (0.01) (0.17) (0.11) (0.10)	0.34 0.51 -0.10 -0.34 -0.10 0.08 0.47 0.97 -0.06 -0.38 -0.26 -0.51 -0.75 -1.06 0.13 0.13 -0.59 -0.41 -0.53 m 0.14 0.47 -0.53 m 0.14 0.47 -0.53 m 0.14 0.47 -0.53 -0.66 -0.66 -0.78 -0.14 -0.75	(0.31) (0.11) (0.11) (0.11) (0.21) (0.17) (0.11) (0.10) (0.22) (0.16) (0.00) (0.15) (0.01) (0.15) (0.08) (0.16) (0.17) (0.06) (0.15) (0.09) (0.00) m (0.11) (0.01) (0.22) (0.00) (0.16) (0.22) (0.12) (0.15) m (0.28)	0.47 0.21 -1.35 -1.22 m 0.08 -0.09 m 0.52 -0.04 -0.50 -0.02 m -0.19 -0.16 0.61 -0.09 m -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01 -0.01	(0.40) (0.21) (0.21) (0.73) (0.66) m (0.18) (0.27) m (0.01) (0.23) (0.02) (0.20) (0.18) (0.28) (0.15) (0.21) (0.14) m (0.14) m (0.14) m (0.29) (0.01) (0.27) m (0.27) m (0.29) (0.21) (0.21) (0.21)	0.16 0.81 0.29 -0.10 0.38 0.31 0.97 1.01 0.20 -0.25 -0.49 -0.83 0.26 0.08 -0.55 -0.24 c -0.13 0.31 0.50 -0.02 -1.00 -0.06 0.69 -0.63 -0.68 -0.07 0.88 0.86	(0.11) (0.05) (0.20) (0.10) (0.11) (0.08) (0.07) (0.08) (0.00) (0.08) (0.01) (0.11) (0.03) (0.14) (0.05) c (0.00) (0.07) (0.00) (0.07) (0.00) (0.08) (0.12) (0.00)	C -1.05 0.63	C (0.17) (0.47) C (0.17) (0.17) (0.16) (0.18) C (0.01) (0.16) (0.01) (0.13) (0.08) (0.10) (0.13) (0.28) (0.09) C C C (0.11) (0.00) C C C (0.11) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.26) (0.17) (0.19) (0.11) (0.11) (0.38)	m -1.86	(0. (0. (0. (0. (0. (0. (0. (0. (0. (0.
Algeria Brazil Brazil Brazil Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	-0.13 0.30 1.25 0.89 m 0.00 0.56 c -0.59 -0.34 0.23 -0.49 m -0.87 0.28 -0.48 -0.80 -0.24 c -0.39 0.23 c -0.55 -0.63 0.24 0.73 m c -0.10 0.92 0.59	(0.24) (0.20) (0.20) (0.69) (0.69) (0.69) (0.64) m (0.13) (0.20) c (0.01) (0.16) (0.01) (0.12) m (0.13) (0.20) (0.10) c (0.01) (0.09) c (0.16) (0.01) (0.15) m c (0.17) (0.01) (0.01) (0.15) m c (0.17) (0.01) (0.32) (0.24)	0.14 0.60 0.49 -0.02 c 0.16 0.83 1.00 0.15 -0.01 -0.29 -0.63 m -0.89 0.09 0.13 -0.80 -0.13 c -0.59 0.47 0.52 -0.19 -0.53 0.06 0.73 m -0.59 -0.10 0.81 0.84	(0.12) (0.09) (0.29) (0.11) c (0.14) (0.08) (0.00) (0.00) (0.00) (0.11) (0.00) (0.11) (0.00) (0.11) (0.10) (0.10) (0.17) m (0.14) (0.17	0.34 0.51 -0.10 -0.34 -0.10 0.08 0.47 0.97 -0.06 -0.38 -0.26 -0.51 -0.75 -1.06 0.13 -0.59 -0.41 -0.53 -0.14 -0.53 -1.15 -0.66 -0.66 -0.66 -0.78 -0.14 -0.73 -0.66 -0.66 -0.78 -0.66 -0.78 -0.73 -0.66 -0.66 -0.78 -0.73 -0.66 -0.78 -0.73 -0.66 -0.78 -0.73 -0.66 -0.78 -0.73 -0.66 -0.78 -0.78 -0.78 -0.79 -0.73 -0.80	(0.31) (0.11) (0.11) (0.11) (0.21) (0.11) (0.10) (0.22) (0.16) (0.00) (0.15) (0.01) (0.00) (0.15) (0.00) (0.16) (0.16) (0.16) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.01) (0.22) (0.02) (0.12) (0.15) (0.15) (0.15) (0.15) (0.16) (0.22) (0.12) (0.15) (0.16) (0.28) (0.16) (0.29) (0.16) (0.29) (0.16) (0	0.47 0.21 -1.35 -1.22 m 0.08 -0.09 m 0.52 -0.04 -0.50 -0.02 m -0.19 -0.16 0.61 0.21 -0.09 m -0.09 m -0.00 -0.00 m -0.00 m -0.00 m -0.00 m -0.00 m -0.01 -0.01 -0.06 m -0.00 m -0.04 m -0.04 m -0.04	(0.40) (0.21) (0.21) (0.73) (0.66) m (0.18) (0.27) m (0.01) (0.20) m (0.18) (0.18) (0.15) (0.21) (0.14) m (0.14) m (0.14) (0.27) m (0.29) (0.01) (0.27) m (0.27) m (0.24) m (0.24) (0.24)	0.16 0.81 0.29 -0.10 0.38 0.31 0.97 1.01 0.20 0.00 -0.25 -0.49 -0.83 -0.88 0.26 0.08 -0.55 -0.24 c -0.13 0.31 0.50 -0.02 -1.00 -0.06 0.69 -0.63 -0.68 -0.69 -0.68 -0.68 0.88 0.86 0.88	(0.11) (0.05) (0.20) (0.20) (0.20) (0.20) (0.10) (0.19) (0.08) (0.07) (0.08) (0.01) (0.08) (0.35) (0.10) (0.01) (0.05) c (0.00) (0.07) (0.07) (0.07) (0.07) (0.07) (0.07) (0.07) (0.07) (0.09) (0.00) (0.08) (0.12) (0.00) (0.12) (0.00) (0.12) (0.00) (0.12) (0.06) (0.01) (0.11) (0.08)	C -1.05 -0.63 -0.63 -0.63 -0.63 -0.63 -0.63 -0.63 -0.74 -0.63 -1.99 -1.13 -0.74 -0.94 -0.45 -1.22 -0.90 -1.17 -0.58 -1.24 -0.58 -1.24 -0.58 -1.24 -0.58 -1.24 -0.58 -1.24 -1.00 -0.58 -1.24 -1.00 -0.58 -1.24 -1.00 -0.58 -1.24 -1.00 -0.58 -1.24 -1.00 -0.58 -1.24 -1.00 -0.58 -1.24 -1.00 -0.58 -1.24 -1.00 -0.58 -1.10 -0.73 -0.27 -0.18 -1.10 -0.73 -0.27 -0.18 -1.00 -1.11	(0.17) (0.47) (0.47) (0.16) (0.18) (0.01) (0.01) (0.01) (0.039) (0.00) (0.28) (0.09) (0.49) (0.00) (m -1.86 0.33 m -1.05 -0.83 -1.85 m -0.97 -0.62 -1.74 -0.64 -0.72 -1.30 -0.35 -0.93 m m -1.11 m m -0.97 0.42 m m -0.05 -0.20 -0.70 -1.86 -1.19	(0.) (0.) (0.) (0.) (0.) (0.) (0.) (0.)
Algeria Brazil Brazil Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Perru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	-0.13 0.30 1.25 0.89 m 0.00 0.56 c -0.59 -0.34 0.23 -0.49 m -0.87 0.28 -0.48 -0.80 -0.24 c -0.55 -0.63 0.24 0.73 m c -0.55 -0.63 0.24 0.73 m c -0.70	(0.24) (0.20) (0.20) (0.69) (0.69) (0.69) (0.64) m (0.13) (0.20) c (0.01) (0.16) (0.01) (0.12) m (0.14) (0.22) (0.13) (0.20) (0.10) c (0.01) (0.09) c (0.16) (0.01) (0.15) m c (0.17) (0.15) (0.17) (0.01) (0.32) (0.24) (0.26)	0.14 0.60 0.49 -0.02 c 0.16 0.83 1.00 0.15 -0.01 -0.29 -0.63 m -0.89 0.09 0.13 -0.80 -0.13 c -0.59 0.47 0.52 -0.19 -0.53 0.06 0.73 m -0.59 -0.10 0.81 0.84 -0.36 0.26	(0.12) (0.09) (0.19) (0.29) (0.11) c (0.14) (0.08) (0.09) (0.00) (0.12) m (0.04) (0.11) (0.08) c (0.00) (0.18) (0.01) (0.10) (0.08)	0.34 0.51 -0.10 -0.34 -0.10 0.08 0.47 0.97 -0.06 -0.38 -0.26 -0.51 -1.06 0.13 0.13 -0.59 -0.41 -0.53 -1.15 -0.36 -0.66 -0.66 -0.78 -0.14 mm on the control of the	(0.31) (0.11) (0.11) (0.11) (0.21) (0.17) (0.11) (0.10) (0.22) (0.16) (0.00) (0.15) (0.01) (0.15) (0.01) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.15) (0.00) (0.15) (0.00) (0.15) (0.00) (0.11) (0.01) (0	0.47 0.21 -1.35 -1.22 m 0.08 -0.09 m 0.52 -0.04 -0.50 -0.02 m -0.19 -0.18 m -0.09 m 0.02 -0.51 -0.61 -0.06 m 0.01 -0.06 m 0.01 -0.06 m 0.02 -0.06 m 0.02 -0.06 m 0.02 -0.06 m 0.02 -0.06 m 0.006 m 0.006 m 0.006 m 0.006 0.006	(0.40) (0.21) (0.27) (0.66) m (0.18) (0.27) m (0.01) (0.23) (0.02) (0.20) m (0.18) (0.21) (0.14) m (0.14) (0.21) (0.21) (0.21) (0.21) (0.21) (0.21) (0.21) (0.22) m (0.22) (0.22) m (0.22) (0.22) m (0.22) (0.22) (0.22) (0.22) (0.22) (0.22) (0.22) (0.22) (0.22) (0.22) (0.22) (0.22) (0.22) (0.22) (0.22) (0.22) (0.22) (0.22)	0.16 0.81 0.29 -0.10 0.38 0.31 0.97 1.01 0.20 -0.00 -0.25 -0.49 -0.83 -0.88 0.26 -0.55 -0.24 -0.13 0.31 0.50 -0.02 -1.00 -0.06 -0.69 -0.63 -0.68 -0.07 0.88 0.88 0.86 0.88	(0.11) (0.05) (0.20) (0.10) (0.19) (0.08) (0.07) (0.08) (0.01) (0.08) (0.01) (0.03) (0.10) (0.11) (0.03) (0.14) (0.05) c (0.00) (0.07) (0.09) (0.00) (0.09) (0.00) (0.12) (0.00) (0.12) (0.06)	C -1.05 0.63 C -0.67 -0.52 C -0.88 C -0.77 -0.63 -1.99 -1.13 -0.74 -0.94 -0.45 -1.22 -0.90 -1.17 -0.58 C -1.00 -0.58 C -1.03 -0.73 -0.73 -0.73 -0.73 -0.75 -0.18 -1.00 -1.11 -1.58	(0.17) (0.47) (0.47) (0.16) (0.18) (0.01) (0.16) (0.01) (0.39) (0.08) (0.08) (0.28) (0.29) (0.49) (0.00) (0.20) (0.00) (0	m -1.86	(0.) (0.) (0.) (0.) (0.) (0.) (0.) (0.)
Algeria Brazil Brazil Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Perru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	-0.13 0.30 1.25 0.89 m 0.00 0.56 c -0.59 -0.34 0.23 -0.49 m -0.87 0.28 -0.48 -0.80 -0.24 c -0.9 0.33 c -0.9 0.33 c -0.9 0.33 c -0.10 0.92 0.59 0.12	(0.24) (0.20) (0.20) (0.69) (0.69) (0.64) m (0.13) (0.20) c (0.01) (0.16) (0.01) (0.12) m (0.14) (0.22) (0.13) (0.20) (0.10) c (0.01) (0.09) c (0.16) (0.01) (0.15) m c (0.17) (0.01) (0.15) (0.15) (0.01) (0.20) (0.10) (0.01) (0.15) (0.01) (0.15) (0.01) (0.15) (0.01) (0.15) (0.01) (0.26) (0.08)	0.14 0.60 0.49 -0.02 c 0.16 0.83 1.00 0.15 -0.01 -0.29 -0.63 m -0.89 0.09 0.13 -0.80 -0.13 c -0.59 0.47 0.52 0.19 -0.53 0.06 0.73 m -0.59 -0.10 0.81 0.84 -0.36 0.26 0.02	(0.12) (0.09) (0.12) (0.09) (0.29) (0.11) c (0.14) (0.08) (0.09) (0.00) (0.12) m (0.04) (0.11) (0.08) c (0.00) (0.18) (0.01) (0.10) (0.10) (0.10) (0.10) (0.10) (0.10) (0.11) (0.00) (0.11) (0.00) (0.11) (0.00) (0.11) (0.01) (0.01) (0.11) (0.01) (0.01) (0.11) (0.01) (0.11) (0.01) (0.11) (0.01) (0.11) (0.01) (0.11) (0.01) (0.11) (0.01) (0.11) (0.01) (0.11) (0.01) (0.11) (0.01) (0.11) (0.08) (0.13)	0.34 0.51 -0.10 -0.34 -0.10 0.08 0.47 0.97 -0.06 -0.38 -0.26 -0.51 -1.06 0.13 0.13 -0.59 -0.41 -0.53 m 0.14 0.47 -0.53 -1.15 -0.37 -0.66 -0.66 -0.78 -0.166 -0.78 -0.166 -0.78 -0.17 -0.73 -0.066 -0.73 -0.066 -0.78 -0.066 -0.78 -0.10 -0.75 -0.066 -0.78 -0.066 -0.78 -0.066 -0.78 -0.066 -0.78 -0.066 -0.066 -0.078 -0.066 -0.078 -0.066 -0.078 -0.066 -0.078 -0.066 -0.078 -0.066 -0.078 -0.066 -0.078 -0.066 -0.078 -0.066 -0.078 -0.066 -0.078 -0.066 -0.078 -0.066 -0.078 -0.066 -0.078 -0.066 -0.078 -0.066 -0.078 -0.066 -0.078 -0.066 -0.078 -0.066 -0.078 -0.	(0.31) (0.11) (0.11) (0.11) (0.17) (0.17) (0.17) (0.17) (0.16) (0.22) (0.16) (0.00) (0.15) (0.01) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.12) (0.00) (0.12) (0.02) (0.02) (0.12) (0.02) (0.12) (0.13) (0.11)	0.47 0.21 -1.35 -1.22 m 0.08 -0.09 m 0.52 -0.04 -0.50 -0.02 m -0.19 -0.16 0.61 0.21 -0.18 m -0.09 m 0.02 -0.51 -0.61 -0.06 m m 0.02 -0.51 -0.66 -0.06 -0.00	(0.40) (0.21) (0.27) (0.66) m (0.18) (0.27) m (0.01) (0.23) (0.02) (0.20) m (0.18) (0.21) (0.14) m (0.14) m (0.29) (0.01) (0.21) (0.21) (0.21) (0.21) (0.21) (0.22) m (0.22) (0.22) m (0.22) (0	0.16 0.81 0.29 -0.10 0.38 0.31 0.97 1.01 0.20 -0.25 -0.49 -0.83 -0.88 0.26 -0.13 0.31 0.50 -0.02 -1.00 -0.06 -0.69 -0.63 -0.68 -0.07 0.88 0.86 0.08 0.88 0.86 0.08	(0.11) (0.05) (0.20) (0.10) (0.19) (0.08) (0.07) (0.08) (0.01) (0.08) (0.01) (0.11) (0.03) (0.14) (0.05) (0.00) (0.07) (0.01) (0.09) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.01) (0	C -1.05 0.63 C -0.67 -0.52 C -0.88 C -0.77 -0.63 -1.99 -1.13 -0.74 -0.94 -0.45 -1.22 -0.90 -1.17 -0.58 C -1.00 -0.58 C -1.03 -0.73 -0.73 -0.73 -0.75 0.18 -1.00 -1.11 -1.58 0.01	(0.17) (0.47) (0.47) (0.16) (0.18) (0.01) (0.16) (0.01) (0.08) (0.08) (0.08) (0.09) (0.49) (0.00) (0	m -1.86	(0 (0
Algeria Brazil Brazil Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Perru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	-0.13 0.30 1.25 0.89 m 0.00 0.56 c -0.59 -0.34 0.23 -0.49 m -0.87 0.28 -0.48 -0.80 -0.24 c -0.55 -0.63 0.24 0.73 m c -0.55 -0.63 0.24 0.73 m c -0.70	(0.24) (0.20) (0.20) (0.69) (0.69) (0.69) (0.64) m (0.13) (0.20) c (0.01) (0.16) (0.01) (0.12) m (0.14) (0.22) (0.13) (0.20) (0.10) c (0.01) (0.09) c (0.16) (0.01) (0.15) m c (0.17) (0.15) (0.17) (0.01) (0.32) (0.24) (0.26)	0.14 0.60 0.49 -0.02 c 0.16 0.83 1.00 0.15 -0.01 -0.29 -0.63 m -0.89 0.09 0.13 -0.80 -0.13 c -0.59 0.47 0.52 -0.19 -0.53 0.06 0.73 m -0.59 -0.10 0.81 0.84 -0.36 0.26	(0.12) (0.09) (0.19) (0.29) (0.11) c (0.14) (0.08) (0.09) (0.00) (0.12) m (0.04) (0.11) (0.08) c (0.00) (0.18) (0.01) (0.10) (0.08)	0.34 0.51 -0.10 -0.34 -0.10 0.08 0.47 0.97 -0.06 -0.38 -0.26 -0.51 -1.06 0.13 0.13 -0.59 -0.41 -0.53 -1.15 -0.36 -0.66 -0.66 -0.78 -0.14 mm on the control of the	(0.31) (0.11) (0.11) (0.11) (0.21) (0.17) (0.11) (0.10) (0.22) (0.16) (0.00) (0.15) (0.01) (0.15) (0.01) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.15) (0.00) (0.15) (0.00) (0.15) (0.00) (0.15) (0.00) (0.11) (0.01) (0.01) (0.01) (0.01) (0.00) (0.12) (0.00) (0.12) (0.12) (0.12) (0.12) (0.13) (0.06) (0.13)	0.47 0.21 -1.35 -1.22 m 0.08 -0.09 m 0.52 -0.04 -0.50 -0.02 m -0.19 -0.18 m -0.09 -0.02 -0.51 -0.61 -0.06 m 0.02 -0.04 -0.06 m 0.02 -0.06	(0.40) (0.21) (0.27) (0.66) m (0.18) (0.27) m (0.01) (0.23) (0.02) (0.20) m (0.18) (0.21) (0.14) m (0.14) (0.21) (0.21) (0.21) (0.21) (0.21) (0.21) (0.21) (0.22) m (0.22) (0.22) m (0.22) (0.22) m (0.22) (0.22) (0.22) (0.22) (0.22) (0.22) (0.22) (0.22) (0.22) (0.22) (0.22) (0.22) (0.22) (0.22) (0.22) (0.22) (0.22) (0.22)	0.16 0.81 0.29 -0.10 0.38 0.31 0.97 1.01 0.20 -0.00 -0.25 -0.49 -0.83 -0.88 0.26 -0.55 -0.24 -0.13 0.31 0.50 -0.02 -1.00 -0.06 -0.69 -0.63 -0.68 -0.07 0.88 0.88 0.86 0.88	(0.11) (0.05) (0.20) (0.10) (0.19) (0.08) (0.07) (0.08) (0.01) (0.08) (0.01) (0.03) (0.10) (0.11) (0.03) (0.14) (0.05) c (0.00) (0.07) (0.09) (0.00) (0.09) (0.00) (0.12) (0.00) (0.12) (0.00)	C -1.05 0.63 C -0.67 -0.52 C -0.88 C -0.77 -0.63 -1.99 -1.13 -0.74 -0.94 -0.45 -1.22 -0.90 -1.17 -0.58 C -1.00 -0.58 C -1.03 -0.73 -0.73 -0.73 -0.73 -0.75 -0.18 -1.00 -1.11 -1.58	(0.17) (0.47) (0.47) (0.16) (0.18) (0.01) (0.16) (0.01) (0.39) (0.08) (0.08) (0.28) (0.29) (0.49) (0.00) (0.20) (0.00) (0	m -1.86	(0.) (0.) (0.) (0.) (0.) (0.) (0.) (0.)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Notes: Values that are statistically significant are indicated in bold (see Annex A3). Higher values on the index indicate that student behaviour hinders learning to a greater extent.

** See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 3/3]

Table II.3.15 Index of student behaviour hindering learning, science performance and school characteristics

				By educa	ition level			Befor and sch	e account ools' socio	ing for stu -economic	dents' profile ¹		r accountii ools' socio		
		educ	econdary cation ED 2)	educ	econdary cation ED 3)	ISCED 3	- ISCED 2	Change i score p increase index of behaviour	n science er unit	Explained in st perfor	l variance udent mance ed x 100)	Change in score p increase index of	n science per unit e on the student hindering	Explained in st perfor	d variance udent rmance red x 100)
		Mean index	S.E.	Mean index	S.E.	Dif.	S.E.	Score dif.	S.E.	%	S.E.	Score dif.	S.E.	%	S.E.
Q	Australia	-0.16	(0.04)	0.01	(0.07)	0.16	(0.07)	-26	(1.8)	7.6	(1.0)	-10	(1.8)	17.4	(1.1)
OECD	Austria	0.17	(0.12)	0.20	(0.08)	0.04	(0.13)	-17	(3.2)	3.2	(1.4)	-6	(2.4)	31.5	(1.8)
0	Belgium Canada	0.85	(0.10)	0.07	(0.05)	-0.79 0.39	(0.10)	-45 -14	(3.6) (2.5)	17.9 2.3	(2.2)	-11 -6	(3.6) (2.3)	36.4 11.3	(2.1)
	Chile	-0.03	(0.20)	-0.22	(0.08)	-0.20	(0.07)	-26	(2.4)	11.8	(1.9)	-9	(2.5)	27.8	(1.6)
	Czech Republic	-0.06	(0.07)	0.30	(0.07)	0.37	(0.10)	-28	(3.8)	7.7	(2.0)	-9	(2.5)	34.0	(2.0)
	Denmark	-0.31	(0.06)	С	С	m	m	-14	(2.2)	2.4	(0.7)	-7	(2.3)	12.6	(1.4)
	Estonia	-0.01	(0.05)	0.04	(0.18)	0.05	(0.18)	-5	(3.0)	0.2	(0.3)	-3	(2.7)	11.1	(1.3)
	Finland France	0.28	(0.06)	C 27	(O, O.7)	m	(O. 11)	-2	(3.5)	0.0	(0.1)	-2	(2.7)	10.9	(1.3)
	Germany	0.06	(0.11)	0.27	(0.07)	0.21	(0.11)	-17 -27	(5.0)	2.6 4.3	(1.4)	1 - 15	(3.3)	37.9 36.8	(2.2)
	Greece	-0.48	(0.03)	-0.39	(0.07)	0.09	(0.17)	-21	(4.4)	5.5	(2.1)	-10	(2.8)	24.5	(2.8)
	Hungary	-0.76	(0.16)	-0.31	(0.09)	0.45	(0.17)	-32	(3.2)	14.9	(2.7)	-6	(2.4)	43.8	(2.2)
	Iceland	-0.34	(0.00)	m	m	m	m	-2	(1.9)	0.0	(0.1)	-3	(1.9)	5.2	(0.8)
	Ireland	0.03	(0.08)	0.06	(0.08)	0.03	(0.03)	-15	(3.2)	2.4	(1.1)	-3	(2.3)	15.6	(1.3)
	Israel	0.08	(0.10)	0.06	(0.07)	-0.02	(0.10)	-11	(6.4)	0.7	(0.9)	-1 -6	(4.0)	23.3	(2.4)
	Italy Japan	0.05 m	(0.15) m	-0.06 -0.53	(0.06)	-0.11 m	(0.16) m	-23 -24	(4.1) (4.0)	5.3 5.5	(1.6) (1.9)	-6 -6	(3.6)	24.8 28.3	(2.5)
	Korea	-0.24	(0.23)	-0.29	(0.08)	-0.06	(0.25)	-20	(2.9)	5.8	(1.8)	-11	(2.1)	19.3	(2.1)
	Latvia	0.10	(0.05)	0.30	(0.17)	0.20	(0.17)	3	(2.2)	0.1	(0.1)	1	(2.3)	12.5	(1.5)
	Luxembourg	0.34	(0.00)	-0.05	(0.00)	-0.39	(0.00)	-50	(1.6)	16.1	(0.9)	-5	(2.2)	34.5	(1.0)
	Mexico Netherlands	0.29	(0.10)	0.16	(0.06) (0.09)	-0.13 -0.11	(0.12)	-8 -19	(2.3) (10.3)	1.0	(0.6) (2.3)	-5 -8	(2.1) (5.8)	17.6 39.1	(2.0)
	New Zealand	0.43	(0.10)	0.32	(0.05)	-0.11	(0.12)	-19	(3.4)	5.1	(1.4)	-6	(3.3)	20.0	(2.0)
	Norway	-0.11	(0.06)	С. Г	(0.03) C	m	(0.00) m	-8	(3.3)	0.5	(0.4)	-6	(3.0)	8.8	(0.9)
	Poland	-0.08	(0.06)	С	c	m	m	-10	(3.6)	0.9	(0.7)	-6	(2.1)	15.8	(1.6)
	Portugal	0.41	(0.08)	0.27	(0.07)	-0.14	(0.08)	-9	(3.5)	0.8	(0.7)	-3	(2.5)	19.8	(2.0)
	Slovak Republic	0.04	(0.07)	0.12	(0.09)	0.07	(0.11)	-23	(4.6)	4.9	(1.9)	-11	(2.6)	31.3	(2.3)
	Slovenia Spain	-0.14	(0.12)	0.32 c	(0.00) C	0.21 m	(0.12) m	-30 -14	(2.1)	6.6 2.5	(0.9)	-10 0	(1.8) (2.1)	36.2 14.4	(1.3)
	Sweden	0.12	(0.06)	-0.04	(0.44)	-0.16	(0.45)	-13	(3.6)	1.2	(0.6)	-4	(2.1)	16.5	(1.7)
	Switzerland	-0.06	(0.07)	0.04	(0.13)	0.10	(0.14)	-10	(5.1)	0.8	(0.9)	-8	(3.8)	25.1	(2.1)
	Turkey	0.56	(0.17)	0.17	(0.08)	-0.40	(0.19)	-27	(4.5)	9.9	(3.0)	-19	(3.5)	30.7	(3.7)
	United Kingdom	0.04	(0.13)	-0.50	(0.06)	-0.53	(0.13)	-19	(3.8)	3.0	(1.2)	-4	(2.6)	19.6	(1.8)
	United States	0.49	(0.12)	0.23	(0.07)	-0.26	(0.09)	-19	(3.5)	3.3	(1.4)	-6	(3.5)	14.6	(1.6)
	OECD average	0.06	(0.02)	0.05	(0.02)	-0.03	(0.03)	-19	(0.7)	4.5	(0.2)	-6	(0.5)	23.1	(0.3)
Partners	Albania	-1.00	(0.11)	-0.49	(0.09)	0.51	(0.13)		(2, 4)	m	(1.0)	m 1	m (2.5)	m 9.6	(2,0)
ŧ	Algeria Brazil	-0.01 0.67	(0.11)	0.66	(0.24) (0.07)	0.68 -0.14	(0.27) (0.10)	-19	(3.4)	0.8 6.7	(1.0) (1.5)	-6	(2.5)	21.9	(2.9)
Pa	B-S-J-G (China)	0.26	(0.17)	0.46	(0.38)	0.20	(0.40)	-8	(3.5)	2.7	(2.1)	-1	(2.4)	34.8	(3.0)
	Bulgaria	0.89	(0.39)	-0.14	(0.10)	-1.03	(0.39)	-20	(3.4)	7.3	(2.4)	-3	(2.2)	39.5	(2.7)
	CABA (Argentina)	-0.08	(0.12)	-0.91	(0.25)	-0.83	(0.25)	-27	(4.2)	10.9	(3.2)	-2	(3.9)	32.5	(3.5)
	Colombia	0.23	(0.08)	0.03	(0.07)	-0.20	(0.07)	-13	(2.4)	3.4	(1.3)	-5	(2.0)	20.3	(2.5)
	Costa Rica	0.70	(0.08)	0.77	(0.09)	0.07	(0.07)	1	(2.2)	0.0	(0.2)	1	(1.3)	21.5	(2.1)
	Croatia Cyprus*	-0.26	(0.02)	0.98	(0.08)	0.32	(0.02)	-24 -20	(3.9)	7.6 3.0	(2.5)	-12 -6	(2.6)	27.7 17.4	(2.0)
	Dominican Republic	-0.26	(0.02)	-0.17	(0.00)	-0.13	(0.02)	-13	(5.0)	2.8	(2.1)	-5	(2.9)	26.5	(3.2)
	FYROM	C	C	-0.28	(0.00)	m	m	-9	(1.4)	1.2	(0.4)	-8	(1.4)	15.3	(1.2)
	Georgia	-0.55	(0.09)	-0.54	(0.08)	0.00	(0.07)	-4	(2.4)	0.3	(0.3)	-2	(1.9)	15.0	(1.6)
	Hong Kong (China)	-0.67	(0.09)	-0.79	(0.08)	-0.12	(0.04)	-23	(4.2)	5.6	(2.1)	-15	(4.3)	14.9	(2.0)
	Indonesia Jordan	-0.86 0.12	(0.10)	-0.95 m	(0.10) m	-0.10 m	(0.14) m	-5 - 10	(3.0)	0.4 2.5	(0.5)	-1 -5	(2.5)	23.4 13.0	(3.1)
	Kosovo	-0.32	(0.03)	0.18	(0.02)	0.49	(0.11)	-5	(1.7)	0.7	(0.4)	-3	(1.4)	14.3	(1.5)
	Lebanon	-0.39	(0.13)	-0.86	(0.10)	-0.47	(0.14)	-9	(3.6)	1.5	(1.1)	-4	(2.7)	18.5	(3.2)
	Lithuania	-0.26	(0.05)	С	С	m	m	-21	(4.3)	3.8	(1.6)	-12	(2.4)	22.5	(2.5)
	Macao (China)	-0.28	(0.01)	-0.71	(0.00)	-0.43	(0.01)	-8	(0.6)	3.2	(0.4)	-7	(0.6)	4.7	(0.6)
	Malta Moldova	0.32	(0.07)	-0.57 0.05	(0.00) (0.17)	-0.27	(0.18)	-28	(1.4) (2.5)	6.6 0.0	(0.7)	0	(1.6)	24.4 14.2	(1.1)
	Montenegro	-0.12	(0.07)	0.03	(0.17)	0.63	(0.18)	-26	(2.2)	4.2	(0.1)	-12	(2.0)	17.8	(0.9)
	Peru	-0.12	(0.08)	-0.40	(0.08)	-0.27	(0.13)	-8	(2.4)	1.6	(0.9)	-1	(1.3)	29.9	(2.2)
	Qatar	-0.71	(0.01)	-0.88	(0.00)	-0.17	(0.01)	-4	(0.7)	0.2	(0.1)	0	(0.7)	14.0	(0.6)
	Romania	-0.05	(80.0)	m	m	m	m	-22	(4.1)	8.0	(2.8)	-7	(3.5)	24.0	(2.9)
	Russia	0.63	(0.12)	1.14	(0.18)	0.51	(0.17)	-3	(1.9)	0.3	(0.3)	-2	(1.4)	9.8	(1.8)
	Singapore Chinese Taipei	-0.48 -0.75	(0.07)	-0.67 -0.66	(0.02)	-0.19 0.09	(0.06) (0.18)	-28 -10	(1.7)	5.2 1.8	(0.5)	-6 -2	(2.6) (1.8)	26.3 28.3	(1.5)
	Thailand	-0.75	(0.14)	-0.66	(0.12)	0.09	(0.18)	-10	(3.1)	1.8	(0.9)	-2 -6	(2.7)	18.5	(3.2)
	Trinidad and Tobago	1.18	(0.00)	0.58	(0.01)	-0.60	(0.01)	-42	(1.0)	23.2	(1.0)	-17	(1.3)	38.7	(1.1)
	Tunisia	0.84	(0.14)	0.80	(0.15)	-0.04	(0.19)	0	(3.4)	0.0	(0.3)	-2	(2.3)	18.7	(3.8)
	United Arab Emirates	-0.33	(0.12)	-0.65	(0.06)	-0.32	(0.12)	-24	(2.3)	9.0	(1.6)	-17	(2.1)	19.7	(1.9)
	Uruguay Viet Nam	0.53 -0.32	(0.09) (0.18)	-0.20 -0.15	(0.07)	-0.73 0.17	(0.10) (0.19)	-22 -27	(2.5) (6.9)	8.9 6.3	(1.8)	-3 -12	(2.2) (4.9)	26.4 20.6	(1.8)
	Argentina** Kazakhstan**	0.43	(0.08)	0.30	(0.07)	-0.13	(0.08)	-18	(2.7)	4.9	(1.5)	-10	(2.3)	20.8 9.4	(2.3)
		1 0.92	(0.13)	0.75	(0.17)	-0.17	(0.13)	- 14	(2.4)	0.3	(0.7)	4 -9	(2.5)	9.4	(2.5)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Notes: Values that are statistically significant are indicated in bold (see Annex A3). Higher values on the index indicate that student behaviour hinders learning to a greater extent.

** See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/2]

Table II.3.16 Student behaviour hindering learning and science performance

			Cnar	ige in scienc	e score wne	n the school			he followin	g phenomena	a hinder lea	rning	
			Student	truancy				pping classes		Studen	ts lacking r	espect for tea	chers
		Before accestudents' as socio-econo	nd schools'	students' a	ounting for and schools' omic profile	students' a		After accou students' an socio-econor	d schools'	Before acco students' ar socio-econo	nd schools'	After acco students' ar socio-econo	nd schools'
		Score dif.	S.E.	Score dif.	S.E.	Score dif.	S.E.	Score dif.	S.E.	Score dif.	S.E.	Score dif.	S.E.
Q.	Australia	-52	(4.0)	-15	(4.0)	-54	(4.0)	-17	(3.9)	-50	(4.2)	-17	(3.7)
	Austria	-18	(8.3)	-2	(5.2)	-17	(8.9)	-6	(5.0)	-54	(10.6)	-25	(7.6)
	Belgium	-83	(6.2)	-22	(5.9)	-88	(6.9)	-23	(7.3)	-63 -23	(10.0)	-17	(6.4)
	Canada Chile	-19 -55	(4.8) (7.5)	-5 -28	(3.7)	-17 -45	(4.5)	-6 -21	(3.5)	-23	(7.0) (6.7)	-7 -23	(5.8) (6.2)
	Czech Republic	-43	(7.2)	-12	(4.6)	-43	(7.5)	-13	(4.6)	-45	(7.5)	-14	(6.2)
	Denmark	-29	(5.2)	-15	(4.9)	-31	(5.6)	-16	(6.8)	-27	(5.7)	-10	(5.4)
	Estonia	-6	(4.4)	-1	(4.0)	-4	(4.9)	-4	(4.4)	-20	(6.3)	-7	(6.7)
	Finland	-2	(4.8)	-3	(4.1)	-7	(5.3)	-8	(3.9)	-6	(5.5)	0	(4.3)
	France	-36	(8.6)	0	(5.7)	-25	(9.7)	9	(6.5)	-58	(10.5)	-9	(6.6)
	Germany	-53	(12.3)	-25 -29	(5.6)	-47	(12.0)	-28	(6.3)	-61	(11.0)	-17	(8.5) (9.9)
	Greece Hungary	-61 -98	(10.3)	-25	(7.6) (6.8)	-63 -76	(12.2) (9.5)	-37 -12	(7.7) (6.5)	-40 -55	(15.5) (9.1)	-18 -7	(6.1)
	Iceland	-3	(4.3)	-3	(4.3)	-4	(4.6)	-4	(4.6)	-5	(6.1)	2	(5.8)
	Ireland	-21	(5.7)	-3	(4.0)	-10	(9.0)	2	(5.8)	-39	(11.2)	-16	(9.1)
	Israel	-18	(9.5)	-1	(6.5)	3	(11.7)	0	(7.4)	-12	(15.1)	3	(8.7)
	Italy	-45	(8.3)	-12	(8.4)	-40	(8.6)	-9	(7.8)	-32	(9.6)	-12	(7.7)
	Japan	-75	(9.5)	-27	(8.1)	-66	(11.3)	-15	(8.0)	-53	(11.1)	-18	(6.9)
	Korea	-51	(8.9)	-25	(6.4)	-40	(10.9)	-21	(7.1)	-22	(8.4)	-17	(5.2)
	Latvia Luxembourg	- 60	(3.9)	-10	(3.5)	-2 - 76	(3.8)	- 9	(3.6)	-6 -75	(4.4)	-2 -10	(3.5)
	Mexico	-21	(5.4)	-10	(4.3)	-70	(5.3)	-5	(4.7)	-18	(6.5)	-10	(5.3)
	Netherlands	-20	(18.5)	-9	(10.6)	-37	(17.8)	-9	(11.5)	-35	(18.9)	-11	(10.7)
	New Zealand	-40	(7.5)	-1	(6.1)	-37	(7.2)	-1	(5.6)	-31	(12.6)	-7	(8.7)
	Norway	-2	(5.6)	0	(4.9)	-9	(5.5)	-5	(4.8)	-20	(5.6)	-9	(5.2)
	Poland	-11	(6.3)	-12	(4.3)	-15	(5.6)	-9	(4.3)	-7	(7.4)	-3	(5.0)
	Portugal	-12	(6.4)	-2	(4.7)	-8	(6.7)	-1	(4.7)	-15	(7.7)	-5	(4.5)
	Slovak Republic	-55	(9.2)	-19	(5.2)	-18	(9.6)	-10	(5.8)	-40	(9.9)	-19	(6.1)
	Slovenia Spain	-36 -23	(3.4)	-9	(2.9)	-3 -27	(2.8) (4.9)	-8 -3	(2.7)	-46 -23	(4.2)	-9 -4	(3.5)
	Sweden	-23	(6.8)	-9	(4.9)	-16	(7.1)	-4	(4.6)	-23	(6.6)	-9	(5.9)
	Switzerland	-7	(10.3)	-12	(7.4)	-10	(12.4)	-6	(7.5)	-55	(10.8)	-25	(8.8)
	Turkey	-46	(9.1)	-31	(6.8)	-41	(8.0)	-30	(5.8)	-42	(9.3)	-29	(6.2)
	United Kingdom	-43	(7.6)	-12	(6.8)	-23	(11.4)	-14	(6.3)	-6	(10.4)	1	(5.9)
	United States	-33	(6.3)	-11	(5.4)	-32	(7.5)	-10	(6.1)	-47	(10.0)	-24	(8.1)
	OECD average	-34	(1.3)	-11	(1.0)	-30	(1.4)	-10	(1.0)	-35	(1.6)	-12	(1.1)
2	Albania	m	m	m	m	m	m	m	m	m	m	m	m
Partners	Algeria	10	(7.8)	8	(6.0)	13	(9.0)	-2	(6.5)	9	(7.4)	7	(6.0)
ā	Brazil	-38	(6.0)	-10	(4.4)	-27	(5.4)	-6	(4.4)	-35	(5.1)	-16	(3.6)
٠.	B-S-J-G (China)	-38	(13.2)	-9	(9.7)	-39	(13.4)	-7	(9.8)	-52	(12.9)	-17	(9.4)
	Bulgaria	-60 -37	(9.8)	-15 -7	(5.9)	-48 -41	(10.8)	-6 9	(7.0) (8.3)	-40	(11.2)	-10	(6.6)
	CABA (Argentina) Colombia	-37	(14.3)	-5	(7.8)	-20	(15.6)	-8	(5.1)	-14	(6.5)	-7	(4.6)
	Costa Rica	6	(6.6)	3	(3.2)	3	(6.8)	2	(3.6)	-3	(6.2)	5	(3.9)
	Croatia	-58	(9.7)	-28	(6.4)	-45	(9.8)	-24	(6.3)	-42	(8.3)	-19	(5.6)
	Cyprus*	-41	(2.8)	-17	(2.7)	-21	(3.0)	-6	(2.8)	-20	(2.7)	-2	(2.8)
	Dominican Republic	-23	(8.2)	-12	(6.4)	-13	(7.4)	-6	(5.6)	-21	(7.0)	-15	(5.1)
	FYROM	-22	(2.6)	-6	(2.7)	-11	(3.5)	-9	(3.5)	-24	(3.6)	-26	(3.6)
	Georgia	-7	(7.0)	-2	(4.6)	-8	(6.8)	-6	(5.5)	-13	(8.6)	-8	(7.1)
	Hong Kong (China) Indonesia	-33 -15	(12.9) (6.9)	-23 -8	(13.0)	-32 0	(18.1)	-10 5	(15.9) (6.6)	-17 -7	(10.5)	-13 3	(7.7) (8.6)
	Jordan	-13	(6.3)	-2	(5.5)	-24	(7.8)	-11	(6.6)	-20	(6.6)	-14	(5.5)
	Kosovo	-5	(3.4)	0	(3.3)	-15	(3.1)	-9	(3.0)	-13	(3.9)	-5	(3.8)
	Lebanon	-45	(9.1)	-26	(7.7)	-26	(11.8)	-8	(9.3)	-31	(10.8)	-12	(8.3)
	Lithuania	-30	(6.4)	-18	(5.0)	-24	(7.6)	-16	(6.0)	-18	(8.0)	-1	(7.7)
	Macao (China)	-35	(2.5)	-31	(2.6)	-33	(2.6)	-28	(2.7)	-33	(2.6)	-27	(2.7)
	Malta	-34	(5.4)	17	(5.6)	-55	(4.8)	-2	(5.2)	-62	(3.6)	-2	(4.1)
	Moldova Montenegro	-5 -33	(7.0) (4.7)	-2 -2	(4.7) (4.3)	-28	(5.7) (2.6)	3 -11	(5.0) (2.6)	- 60	(6.2)	7 -32	(4.9)
	Peru	-33	(6.3)	-2	(3.6)	-26	(6.2)	-11	(4.1)	4	(6.0)	-32 -3	(3.8)
	Qatar	26	(2.3)	28	(2.4)	-16	(1.9)	6	(2.0)	-43	(2.7)	-22	(2.8)
	Romania	-40	(7.5)	-15	(6.1)	-43	(7.6)	-18	(6.4)	-31	(8.7)	-15	(8.3)
	Russia	-12	(5.1)	-7	(4.0)	-3	(6.3)	0	(4.9)	-5	(6.0)	-4	(5.5)
	Singapore	-68	(4.6)	-20	(4.6)	-27	(5.6)	1	(5.5)	-46	(4.7)	-17	(4.6)
	Chinese Taipei	-19	(12.2)	-9	(7.2)	-15	(11.4)	-7	(6.8)	-24	(9.6)	-6	(5.7)
	Thailand	-31	(6.3)	-14	(6.2)	-28	(5.8)	-17	(5.5)	-29	(8.0)	-20	(7.0)
	Trinidad and Tobago Tunisia	-80 -10	(2.8)	-27 -2	(3.2)	-77 5	(2.5) (7.1)	-23 0	(2.8) (5.2)	-72 1	(2.6)	-20 -9	(2.8)
	United Arab Emirates	-56	(7.3)	-32	(6.7)	-57	(6.4)	-36	(7.2)	-41	(11.8)	-29	(10.5)
	Uruguay	-42	(6.0)	-5	(4.9)	-28	(5.7)	-1	(4.4)	-51	(8.0)	-18	(7.5)
	Viet Nam	-37	(7.3)	-17	(6.7)	-34	(10.6)	-15	(8.5)	-26	(23.7)	-29	(13.0)
													((, ())
Ť	Argentina** Kazakhstan**	-34 7	(6.7) (7.6)	-17 12	(5.9) (7.7)	-26 9	(6.5) (7.4)	-11	(4.6) (7.7)	-24 4	(7.5) (8.9)	-16 8	(6.0) (8.1)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).
* See note at the beginning of this Annex.
** Coverage is too small to ensure comparability (see Annex A4).
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[Part 2/2]

Table II.3.16 Student behaviour hindering learning and science performance

				chool principal re to some ex	tent or a lot		8	
	S	tudent use of alco	ohol or illegal drugs		1	nts intimidating o	r bullying other stu	dents
	Before ac for students' socio-econo	and schools'	After acc for students' socio-econo	and schools'	Before ac for students' socio-econo		After acc for students' socio-econo	and schools'
	Score dif.	S.E.	Score dif.	S.E.	Score dif.	S.E.	Score dif.	S.E.
Australia Austria Belgium	-29	(8.3)	-8	(6.3)	-34	(5.9)	-12	(3.9)
Austria	-60	(10.5)	-27	(8.7)	-26	(12.6)	-14	(7.9)
Belgium Canada	-57 -16	(16.1)	-32 -4	(9.9) (4.0)	-31 -16	(11.0) (8.0)	-8	(5.8)
Chile	-49	(6.5)	-20	(6.3)	-51	(8.8)	-25	(8.2)
Czech Republic	-58	(16.3)	-23	(7.6)	-50	(13.9)	-15	(8.8)
Denmark	-7	(12.4)	6	(20.1)	-16	(11.2)	-2	(9.7)
Estonia	-11	(16.8)	-13	(16.1)	-3	(7.9)	-4	(6.6)
Finland	7	(12.4)	3	(7.5)	3	(6.5)	1	(4.9)
France	19	(9.5)	0	(5.9)	-94	(14.2)	-25	(10.2)
Germany	-29	(20.0)	-15	(11.4)	-28	(14.1)	-18	(8.0)
Greece	-11	(23.7)	0	(16.0)	-26	(21.6)	-2	(17.0)
Hungary	-19	(14.8)	10	(8.7)	-63 5	(20.2)	0	(9.7)
Iceland Ireland	- 19	C (8.8)	-2	(6.9)	-18	(5.1) (10.0)	-3	(4.9)
Israel	5	(24.2)	-16	(16.6)	-10 C	(10.0) C	-5 C	(O.1)
Italy	-3	(16.6)	9	(16.1)	-34	(15.8)	0	(16.8)
Japan	c	C	c	C	8	(13.5)	-3	(10.8)
Korea	-42	(15.6)	-25	(9.0)	-48	(19.7)	-43	(11.4)
Latvia	3	(8.8)	2	(7.5)	-12	(7.2)	-7	(7.5)
Luxembourg	m	m	m	m	С	С	С	С
Mexico	-15	(5.2)	-4	(4.8)	-18	(5.7)	-14	(4.3)
Netherlands	-34	(19.2)	-30	(8.9)	-35	(17.0)	-17	(10.3)
New Zealand	-28	(11.3)	-8	(7.6)	1	(9.1)	4	(7.6)
Norway Poland	-1	(18.1)	C 0	c (11.5)	-12 c	(6.9) c	-1 c	(6.4)
Portugal	-10	(10.1)	-6	(10.6)	-31	(15.5)	-9	(10.7)
Slovak Republic	-80	(25.4)	-19	(9.0)	-81	(18.5)	-38	(10.3)
Slovenia	-17	(3.9)	3	(3.6)	-49	(7.9)	-15	(7.1)
Spain	-18	(16.1)	3	(15.5)	-16	(9.7)	4	(8.3)
Sweden	-38	(10.3)	-20	(10.1)	-20	(9.8)	-2	(6.8)
Switzerland	-35	(11.0)	-21	(9.8)	-44	(11.1)	-17	(8.6)
Turkey	-2	(9.4)	-35	(15.1)	-25	(11.6)	-29	(11.2)
United Kingdom	-8	(26.8)	3	(15.9)	-32	(12.2)	1	(12.1)
United States	-1	(12.0)	5	(7.5)	-8	(14.5)	-10	(8.2)
OECD average	-21	(2.7)	-9	(2.0)	-28	(2.2)	-10	(1.6)
Albania	m	m	m	m	m	m	m	m
Algeria	15	(16.7)	2	(13.1)	3	(12.3)	-6	(9.2)
Albania Algeria Brazil	-19	(5.9)	-4 -4	(4.9)	-14	(5.9)	-3	(5.3)
B-S-J-G (China) Bulgaria	-31 -44	(14.6) (13.3)	-4	(10.2) (9.2)	-38 -32	(13.9) (13.2)	-10 -5	(9.8)
CABA (Argentina)	-14	(23.4)	0	(13.7)	-32 C	(13.2) C	-5 C	(7.5) C
Colombia	-19	(7.9)	-11	(6.3)	-17	(5.3)	-11	(4.9)
Costa Rica	2	(5.2)	2	(3.5)	5	(6.2)	5	(4.1)
Croatia	-13	(10.3)	-6	(7.3)	-8	(10.6)	-5	(7.4)
Cyprus*	С	С	С	C	-43	(4.6)	-15	(4.5)
Dominican Republic	-6	(19.7)	7	(13.9)	-4	(9.5)	4	(7.3)
FYROM	С	С	С	С	С	С	С	С
Georgia	-18	(10.7)	-16	(8.9)	-10	(10.8)	-10	(7.7)
Hong Kong (China)	m	m	m	m	15	(22.2)	-14	(16.3)
Indonesia Jordan	C 11	c (13.5)	-5	(10.3)	-4 -17	(22.2) (8.7)	2 -11	(10.9)
Kosovo	-11 -9	(13.5)	-5 -9	(10.3)	-17	(8.7)	-11	(4.9)
Lebanon	-24	(17.2)	1	(10.2)	-39	(14.2)	-18	(10.1)
Lithuania	-5	(14.9)	-11	(17.0)	-28	(10.6)	-7	(9.5)
Macao (China)	-20	(2.6)	-15	(2.7)	-17	(2.6)	-14	(2.6)
Malta	С	С	С	C	-50	(3.5)	-4	(3.7)
Moldova	-1	(8.3)	-1	(6.3)	-11	(6.6)	-6	(5.3)
Montenegro	С	С	С	С	С	С	С	С
Peru	-8	(9.4)	2	(4.8)	-2	(6.1)	3	(4.4)
Qatar	С	C	С	C	28	(2.9)	33	(2.8)
Romania Russia	C 0	C (6.6)	C 1	C (4.6)	-27	(11.2)	-11 2	(8.5)
Singapore	C	(6.6)		(4.6)	0	(6.5)	15	(4.7)
Singapore Chinese Taipei	-18	c (15.3)	-6	(9.0)	-17	(3.9)	15 -7	(3.7)
Thailand	-18	(9.5)	-6	(8.6)	-17	(10.4)	-16	(11.8)
Trinidad and Tobago	-50	(2.5)	-20	(2.5)	-44	(2.5)	-14	(2.5)
Tunisia	11	(12.8)	2	(7.7)	-6	(9.7)	-11	(5.8)
United Arab Emirates	-57	(13.7)	-24	(9.6)	-28	(10.8)	-14	(6.9)
Uruguay	-15	(10.9)	-5	(7.9)	-42	(8.2)	-14	(7.1)
Viet Nam	С	С	С	С	4	(18.9)	-8	(13.7)
Argentina**	-21	(9.6)	-14	(7.1)	-20	(8.0)	-13	(6.0)
Kazakhstan**	2	(8.7)	4	(8.5)	3	(8.7)	5	(8.6)
Malaysia**	-13	(7.7)	-14	(10.5)	-20	(7.1)	-18	(7.8)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

* Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/2]

Table II.3.21 Teacher behaviour hindering learning and science performance

		 	reports	co ccoro who	n the school	nrincinal ro	norted that	the following	, nhonomor	a hindor loar	ning to con	no ovtont or a	lot
			-	dividual stud		principai re		the following bsenteeism	g pnenomer	ia ninder iear	-	ing change	1 101
		Before acco students' an socio-ecc profi	ounting for ad schools' onomic	After acc for stude schools'socie	counting ents'and o-economic	Before accestudents' ai socio-ec	ounting for nd schools' onomic	After acc for stude schools'socio	nts'and o-economic	Before acco students' an socio-ecc prof	unting for d schools' onomic	After acc for stude schools'socio	ents'and o-economic
		Score dif.	S.E.	Score dif.	S.E.	Score dif.	S.E.	Score dif.	S.E.	Score dif.	S.E.	Score dif.	S.E.
g	Australia	-20	(5.0)	-8	(3.5)	-30	(5.2)	-14	(3.7)	3	(4.9)	0	(3.3)
OFCD	Austria	- 22	(13.5)	3	(7.4)	-15 -13	(13.9)	-14 0	(8.3)	-5	(8.5)	-2 -3	(6.1)
9	Belgium Canada	-7	(11.1)	-1 -1	(4.3)	-13 -11	(9.6) (6.8)	-9	(5.1)	-6 -3	(4.8)	0	(4.7)
	Chile	-37	(8.1)	-16	(5.9)	-22	(7.9)	-2	(6.5)	-22	(7.2)	-5	(5.5)
	Czech Republic	-15	(9.7)	9	(7.4)	-4	(10.8)	-2	(7.2)	-9	(9.6)	0	(5.5)
	Denmark	-1	(8.8)	5	(9.1)	-5	(6.6)	1	(5.5)	-3	(6.2)	1	(6.2)
	Estonia Finland	7 3	(5.1)	5	(5.0) (4.8)	3 -10	(6.1) (4.9)	-2 -4	(5.6) (5.3)	10	(5.2) (6.0)	3	(4.6) (4.9)
	France	-8	(10.4)	3	(6.5)	-22	(13.0)	-3	(6.7)	19	(9.9)	13	(5.2)
	Germany	11	(12.7)	2	(6.9)	-2	(10.8)	0	(6.0)	22	(13.0)	5	(6.4)
	Greece	4	(20.1)	0	(14.2)	7	(21.8)	13	(13.8)	-7	(12.0)	0	(7.6)
	Hungary	1	(12.5)	-3	(6.9)	9	(18.8)	-2	(9.3)	-1	(16.1)	-7	(7.9)
	Iceland Ireland	-1 -7	(3.8)	-3 2	(3.8) (6.3)	-3 -14	(5.0)	-7	(5.0) (6.9)	0	(3.7) (8.3)	-3 3	(3.6) (5.0)
	Israel	-19	(14.1)	-9	(9.8)	-24	(11.8)	-10	(6.8)	10	(13.4)	6	(7.5)
	Italy	32	(8.4)	26	(7.1)	-12	(11.1)	-4	(8.7)	25	(9.3)	17	(6.9)
	Japan	-18	(10.2)	-1	(6.9)	0	(17.1)	-22	(9.9)	17	(9.4)	8	(6.0)
	Korea	4	(14.3)	-13	(8.2)	С	C (F.C)	С	C	-2	(15.8)	-9	(8.8)
	Luvembourg	7 40	(6.0)	3 12	(5.9)	8	(5.6)	3	(6.7)	5 4	(5.8)	3	(5.1)
	Luxembourg Mexico	-8	(2.6)	-1	(2.6)	c -1	(7.4)	-9	(5.9)	0	(2.3)	-6 -3	(3.9)
	Netherlands	-4	(17.8)	-2	(10.9)	-5	(17.2)	-5	(9.5)	13	(15.5)	12	(9.4)
	New Zealand	-13	(7.8)	-4	(5.4)	-18	(14.3)	-4	(8.1)	2	(7.9)	7	(5.8)
	Norway	-8	(5.0)	-6	(4.3)	-6	(4.7)	1	(4.3)	3	(5.0)	6	(4.4)
	Poland	-7	(7.3)	-9	(6.0)	-10	(8.2)	-7	(5.6)	2	(6.2)	4	(4.7)
	Portugal Slovak Republic	-11 2	(7.6) (14.6)	-7	(5.5) (6.3)	-17 31	(9.3) (17.6)	-9 -1	(5.3) (9.3)	-3 17	(7.6) (11.8)	0	(5.3) (7.4)
	Slovenia	5	(6.2)	4	(5.1)	0	(4.0)	-6	(4.0)	-26	(3.5)	-6	(3.3)
	Spain	-5	(6.8)	6	(4.7)	-13	(11.2)	-2	(8.5)	-3	(5.1)	2	(3.8)
	Sweden	-10	(6.4)	1	(4.5)	-10	(7.3)	10	(5.5)	-7	(8.2)	3	(5.8)
	Switzerland	-3	(14.5)	5	(9.8)	-15	(20.6)	-12	(11.5)	-4	(11.5)	-5	(6.5)
	Turkey	-18 -11	(10.1)	-18	(7.2)	20 6	(19.1)	-6 9	(14.4) (4.8)	-1 18	(9.5) (9.1)	-5 2	(8.2) (5.4)
	United Kingdom United States	-17	(10.1)	-8	(5.8)	-28	(12.7)	-11	(8.0)	-13	(9.1)	-9	(5.4)
	OECD average	-4	(1.7)	-1	(1.1)	- 7	(2.1)	-4	(1.3)	2	(1.6)	1	(1.0
			(1.7)		(1.1)	-/			(1.5)		(1.0)		(1.0
ers	Albania	m	m	m	m (C 1)	m	m (7.2)	m	m	m	m	m	m
Partners	Algeria Brazil	-13	(6.6) (5.7)	7 2	(6.1) (4.4)	12 -22	(7.2)	-12	(6.1) (4.0)	2 -11	(7.6)	-4 0	(6.1) (4.5)
Ра	B-S-J-G (China)	-6	(13.7)	12	(8.6)	-27	(14.8)	2	(9.9)	-24	(14.0)	7	(9.1)
	Bulgaria	-13	(16.5)	1	(8.3)	16	(17.7)	3	(9.0)	6	(15.4)	6	(7.7)
	CABA (Argentina)	-7	(15.9)	-11	(8.9)	-6	(14.6)	8	(7.3)	-29	(13.4)	-4	(8.0)
	Colombia	-5	(6.7)	-3	(4.9)	-14	(6.9)	-10	(6.0)	-10	(7.7)	-1	(4.6)
	Costa Rica Croatia	7	(6.7) (10.4)	1 8	(3.9)	9 19	(7.0) (10.9)	-2	(3.7)	10 -10	(6.6)	5 -2	(3.8)
	Cyprus*	-17	(3.9)	-4	(3.8)	-19	(4.2)	-16	(4.1)	4	(3.1)	-2 -6	(3.1)
	Dominican Republic	-7	(9.0)	-8	(6.7)	-20	(20.4)	-19	(9.4)	12	(11.9)	11	(7.3)
	FYROM .	5	(3.5)	-3	(3.5)	С	С	С	С	23	(3.4)	16	(3.4)
	Georgia	-1	(10.3)	-4	(8.1)	-14	(9.0)	-8	(6.9)	-13	(9.4)	-1	(6.9)
	Hong Kong (China)	-10	(7.5)	-1 7	(5.6)	-23	(10.2)	-6	(9.9)	2	(8.5)	1	(6.6)
	Indonesia Jordan	-8 -11	(14.2)	1	(12.2) (6.4)	-9 0	(10.7)	3	(8.2) (5.6)	-2	(6.9)	-1	(6.0)
	Kosovo	1	(3.6)	2	(3.5)	-11	(3.7)	-5	(3.6)	-4	(3.4)	-3	(3.1)
	Lebanon	-30	(13.7)	-13	(11.0)	-26	(13.7)	-5	(10.0)	-13	(9.0)	9	(7.2)
	Lithuania	-17	(8.2)	-12	(7.7)	-8	(15.9)	-18	(17.7)	15	(7.8)	5	(7.1)
	Macao (China)	-12	(2.1)	-8	(2.2)	-10	(2.4)	-10	(2.3)	-14	(2.0)	-12	(2.1)
	Malta Moldova	-12 -2	(3.5)	-3 1	(3.4) (6.6)	-24 3	(4.0) (9.9)	-3 5	(4.0) (8.0)	-7 -8	(3.8) (6.5)	13 -4	(3.8) (5.2)
	Montenegro	13	(3.3)	7	(3.3)	-9	(3.4)	-8	(3.4)	-48	(3.0)	-19	(3.2)
	Peru	-6	(6.3)	0	(3.6)	-9	(6.8)	0	(4.0)	-2	(6.1)	2	(3.4)
	Qatar	20	(3.4)	4	(3.4)	-30	(3.2)	-18	(3.2)	11	(3.6)	-17	(3.7)
	Romania	27	(16.3)	13	(10.0)	C	(7.0)	С	C (4.6)	-13	(9.5)	-7	(5.9)
	Russia Singapore	-7 -22	(6.0) (2.5)	-8 -3	(4.0) (4.8)	-8 4	(7.0) (7.4)	-5 21	(4.6) (6.9)	-3 4	(6.7)	2 0	(4.7)
	Chinese Taipei	-4	(9.6)	3	(5.5)	-11	(12.2)	-3	(7.8)	0	(9.3)	4	(5.4)
	Thailand	-24	(8.5)	-16	(7.2)	-45	(8.4)	-26	(8.2)	-24	(7.5)	-16	(6.1)
	Trinidad and Tobago	-38	(2.9)	-21	(2.9)	-34	(3.1)	-16	(2.9)	-31	(2.9)	-15	(2.8)
	Tunisia	12	(9.9)	3	(6.5)	4	(7.2)	0	(6.0)	12	(7.1)	4	(5.2)
	United Arab Emirates	-19	(9.7)	-4 -1	(8.0)	-31	(6.1)	-7	(8.2)	-17	(7.4)	-5 9	(6.2)
	Uruguay Viet Nam	-12 5	(8.3) (11.2)	5	(4.8) (8.6)	-20 -14	(6.6) (16.3)	-5 -6	(4.8) (9.5)	-1 27	(7.0) (14.5)	28	(4.3) (13.1)
_													
	Argentina** Kazakhstan**	-7 10	(7.9) (8.6)	-4 10	(5.7) (8.1)	-28 8	(7.1) (7.5)	-18	(5.2) (7.8)	-12 -2	(6.7) (7.4)	-3 2	(4.9) (7.6)
	Malaysia**	-12	(10.0)	-11	(8.9)	-13	(7.9)	-15	(5.8)	-22	(6.9)	-23	(8.2)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS).

Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 2/2]

Table II.3.21 Teacher behaviour hindering learning and science performance

					t the following pher			
			strict with student				ell prepared for cla	
	Before ac for students' socio-econo	and schools'	After acc for students' socio-econo	and schools'	Before ac for students' socio-econo	and schools'	After acc for students' socio-econo	and schools
	Score dif.	S.E.						
Australia	-26	(7.3)	-15	(5.6)	-33	(6.5)	-12	(4.2)
Austria Belgium	14 -10	(12.1) (10.7)	10 -3	(7.8) (5.4)	7 -35	(23.4) (10.9)	10 -3	(12.6)
Canada	4	(9.0)	-2	(6.5)	-13	(9.3)	-9	(7.6)
Chile	-18	(8.7)	-3	(6.0)	-24	(8.3)	-7	(6.2)
Czech Republic	20	(12.0)	6	(6.4)	9	(20.9)	2	(12.2)
Denmark	-32	(8.5)	-15	(12.1)	-17	(9.1)	2	(11.3)
Estonia	11	(6.6)	-2	(5.2)	-12	(9.2)	1	(8.6)
Finland	12	(7.5)	12	(3.8)	-6	(4.8)	-2	(7.7)
France	24	(10.6)	10	(6.4)	-27	(13.3)	5	(7.7)
Germany	42	(15.4)	19	(8.0)	-34	(17.6)	-18	(11.0)
Greece Hungary	7	(13.5) (15.4)	3	(8.5)	-37 7	(21.2) (22.6)	-16 0	(14.7)
Iceland	5	(7.2)	5	(7.0)	8	(5.0)	3	(5.1)
Ireland	11	(7.8)	8	(6.5)	-5	(16.1)	-4	(10.4)
Israel	6	(15.7)	11	(8.6)	-18	(16.0)	-4	(9.7)
Italy	31	(10.7)	11	(7.4)	6	(10.4)	3	(7.7)
Japan	-11	(9.7)	-2	(6.1)	-13	(9.5)	-2	(6.4)
Korea	4	(11.1)	0	(6.8)	-15	(17.6)	-13	(10.7)
Latvia	0	(6.3)	-2	(4.9)	36	(8.5)	24	(7.0)
Luxembourg	С	С	С	С	С	С	С	С
Mexico	-1	(5.7)	-3	(4.6)	-16	(7.7)	-13	(7.0)
Netherlands	23	(19.6)	9	(10.6)	-26	(15.6)	-13	(9.2)
New Zealand	-17	(14.8)	-10	(9.4)	-20	(9.9)	-4	(6.6)
Norway Poland	7	(14.3)	11 -6	(10.8)	-14 -3	(7.3)	-8 -8	(6.6)
Portugal	-2 -3	(9.8)	-8	(5.5) (6.7)	-14	(12.7) (12.3)	8	(10.0) (10.5)
Slovak Republic	23	(9.9)	11	(5.5)	-13	(23.7)	-6	(10.3)
Slovenia	-4	(4.8)	0	(4.5)	-31	(4.8)	-11	(5.0)
Spain	-9	(6.1)	0	(4.2)	-5	(6.5)	7	(4.8)
Sweden	10	(18.2)	0	(13.4)	-17	(9.6)	1	(6.9)
Switzerland	2	(25.9)	-2	(12.5)	-45	(21.5)	-27	(14.0)
Turkey	10	(32.2)	-28	(12.3)	-6	(11.2)	-21	(8.8)
United Kingdom	6	(19.5)	5	(9.8)	-10	(11.8)	-4	(8.0)
United States	-27	(12.8)	-14	(8.0)	-48	(11.0)	-29	(6.8)
OECD average	3	(2.3)	1	(1.4)	-14	(2.4)	-5	(1.5)
Albania Algeria Brazil	m	m	m	m	m	m	m	m
Algeria	-2	(8.0)	-2	(7.0)	15	(8.8)	13	(6.4)
Brazil	-9	(6.6)	3	(5.6)	-7 25	(6.4)	5	(4.8)
B-S-J-G (China) Bulgaria	-25 30	(16.1) (16.0)	-10 4	(11.1) (8.5)	-35 -21	(11.9) (15.3)	-3 -6	(8.3)
CABA (Argentina)	-22	(18.7)	-4	(11.8)	-21 C	(13.3) C	-0 C	(0.3) C
Colombia	-4	(6.1)	1	(4.3)	-7	(5.5)	4	(6.2)
Costa Rica	-2	(8.1)	-1	(4.7)	12	(7.0)	9	(4.1)
Croatia	17	(11.0)	1	(6.9)	-15	(10.4)	-2	(6.0)
Cyprus*	-21	(3.2)	-4	(3.3)	-53	(4.8)	-26	(4.8)
Dominican Republic	-1	(9.2)	0	(5.6)	1	(12.0)	3	(7.6)
FYROM	12	(4.5)	-18	(4.4)	С	С	С	С
Georgia	-16	(13.1)	-8	(8.0)	-16	(10.0)	-6	(7.2)
Hong Kong (China)	-21	(10.7)	-6	(9.3)	-16	(11.0)	-3	(8.5)
Indonesia	-10	(8.9)	-5	(7.5)	-3	(17.6)	7	(10.4)
Jordan	-8 0	(7.6)	-6	(6.0)	-7 -24	(6.9)	-8	(5.9)
Kosovo	- 40	(3.2)	6	(2.9)		(3.7)	-18	(3.5)
Lebanon Lithuania	-40 -1	(10.6) (19.9)	-27 -4	(12.1) (15.8)	-31 -13	(11.0)	-2 -6	(9.9) (13.0)
Macao (China)	-29	(2.6)	-22	(2.8)	-25	(2.6)	-22	(2.7)
Malta	-6	(3.9)	19	(4.0)	-23 C	(2.0) C	C C	(Z./)
Moldova	0	(8.9)	0	(6.3)	-6	(7.1)	3	(5.8)
Montenegro	-20	(2.9)	13	(3.3)	6	(3.5)	8	(3.4)
Peru	-10	(7.3)	-4	(4.0)	-12	(6.2)	1	(3.7)
Qatar	-66	(4.7)	-25	(5.0)	-26	(3.7)	-10	(3.6)
Romania	-14	(11.5)	-6	(6.3)	11	(29.4)	-10	(9.4)
Russia	9	(6.4)	1	(4.7)	-3	(6.0)	-2	(4.1)
Singapore	-7	(3.1)	-5	(6.2)	-49	(3.5)	-18	(3.4)
Chinese Taipei	4	(9.5)	6	(5.7)	-23	(9.6)	-6	(5.7)
Thailand Trinidad and Tobago	-5 -19	(8.2)	-5 10	(6.4)	-21	(8.4)	-14	(7.6)
Tunisia and Iobago	-19	(4.0) (9.7)	-18 -3	(3.9) (6.2)	-46 -9	(2.6) (8.9)	-28 -4	(2.6) (6.3)
United Arab Emirates	-45	(7.4)	-3	(7.9)	-39	(6.7)	-16	(6.7)
Uruguay	-8	(12.0)	6	(7.1)	-36	(7.6)	-16	(5.8)
Viet Nam	-3	(9.4)	20	(8.7)	13	(9.0)	8	(8.6)
	-	(5.1)		(-,,)	1	(5.0)		(0.0)
		(10.1)	2	(0.4)	2	(0.0)		10.0
Argentina** Kazakhstan**	-6 2	(10.1) (7.7)	-2 4	(9.4) (7.6)	-3 2	(8.8) (8.6)	0	(6.6) (8.2)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

* Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/3]

Table II.3.22 Teacher support in science classes

				Percent	age of stu	ıdents rep	orting th	at the fol	lowing th	ings happ	en in the	ir scienc	e lessons			
		The teach	er shows	an intere	st in eve	ry studen	t's learnir	ıg		The tea	cher give	es extra h	elp when	students	need it	
	Every	lesson	Most	lessons	Some	lessons		ever dly ever	Every	lesson	Most	essons	Some	lessons		ever dly eve
-	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Australia Austria Belgium	41.3	(0.7)	35.7 31.5	(0.5)	18.4	(0.5)	4.7	(0.2)	48.5 30.7	(0.7)	32.0	(0.5)	15.2	(0.4)	4.3	(0.3)
Belgium	25.1 25.4	(0.6)	33.4	(0.7)	27.5 28.4	(0.7)	15.8 12.7	(0.5)	36.7	(0.9)	29.7 34.4	(0.7)	24.5	(0.7)	15.2 7.9	(0.8)
Canada	43.4	(0.7)	33.0	(0.5)	17.7	(0.5)	5.9	(0.3)	52.5	(0.7)	29.7	(0.5)	13.7	(0.4)	4.1	(0.3
Chile	49.8	(1.0)	32.4	(0.7)	14.5	(0.6)	3.3	(0.3)	46.5	(1.0)	31.5	(0.8)	17.7	(0.6)	4.3	(0.3)
Czech Republic	28.1	(0.7)	35.0	(0.8)	25.8	(0.7)	11.1	(0.6)	40.7	(0.9)	35.6	(0.7)	17.5	(0.6)	6.3	(0.5)
Denmark	31.3	(0.9)	39.0	(0.7)	22.7	(0.7)	7.0	(0.4)	37.0	(1.0)	36.8	(0.7)	19.7	(0.7)	6.6	(0.3)
Estonia Finland	28.3 32.5	(0.7)	34.7 42.2	(0.8)	26.0 19.5	(0.7)	10.9 5.8	(0.5)	40.9	(1.0)	32.4 35.9	(0.8)	20.3 12.9	(0.7)	6.4 3.1	(0.3)
France	23.0	(0.8)	34.3	(0.7)	29.0	(0.7)	13.7	(0.4)	34.9	(0.8)	34.8	(0.6)	21.9	(0.6)	8.4	(0.3
Germany	20.1	(0.7)	33.2	(0.7)	31.1	(0.6)	15.6	(0.7)	32.8	(0.9)	33.5	(0.8)	23.5	(0.7)	10.2	(0.5
Greece	36.1	(1.0)	27.3	(0.6)	23.7	(0.8)	12.9	(0.7)	39.7	(1.1)	31.7	(0.8)	19.9	(0.6)	8.7	(0.6
Hungary	31.1	(0.8)	35.1	(0.8)	22.9	(0.7)	10.9	(0.6)	32.5	(0.9)	33.9	(0.9)	23.0	(0.6)	10.7	(0.6
Iceland	40.8	(0.8)	34.8	(0.9)	18.9	(0.7)	5.5	(0.5)	45.8	(0.8)	29.8	(0.7)	17.5	(0.6)	7.0	(0.5
Ireland Israel	41.1 33.7	(1.0)	34.8	(0.7)	18.5	(0.6)	5.6 12.1	(0.5)	41.7	(0.9)	32.3 29.2	(0.7)	19.3 22.7	(0.7)	12.6	(0.5
Italy	31.8	(0.7)	38.8	(0.7)	22.4	(0.7)	7.0	(0.4)	35.5 28.9	(0.8)	37.9	(0.6)	26.0	(0.7)	7.2	(0.6
Japan	22.6	(0.7)	40.8	(0.8)	25.9	(0.7)	10.7	(0.6)	34.7	(0.8)	40.9	(0.7)	17.9	(0.6)	6.4	(0.5
Korea	26.9	(0.8)	41.9	(0.8)	24.8	(0.6)	6.4	(0.5)	29.4	(0.8)	39.7	(0.7)	25.0	(0.7)	5.9	(0.4
Latvia	24.2	(0.8)	35.6	(0.8)	28.8	(0.7)	11.4	(0.6)	38.6	(0.8)	37.2	(0.6)	19.3	(0.5)	5.0	(0.4
Luxembourg	26.1	(0.7)	31.2	(0.8)	27.3	(0.5)	15.3	(0.6)	33.1	(0.7)	33.7	(0.8)	23.0	(0.6)	10.3	(0.5
Mexico	64.1	(1.0)	23.4	(0.7)	10.4	(0.5)	2.1	(0.2)	54.7	(1.0)	27.4	(0.5)	15.1	(0.6)	2.8	(0.3
Netherlands New Zealand	21.3 40.9	(0.9)	42.6 36.3	(0.8)	27.7 18.6	(0.9)	8.5 4.2	(0.5)	27.3 50.3	(1.0)	43.0 32.4	(0.8)	23.5 14.2	(0.8)	6.2 3.1	(0.4
Norway	30.0	(0.8)	37.0	(0.8)	25.1	(0.7)	7.9	(0.5)	36.1	(0.9)	35.9	(0.8)	20.5	(0.6)	7.5	(0.4
Poland	26.2	(0.8)	35.3	(0.9)	27.8	(0.8)	10.6	(0.6)	34.2	(0.9)	34.1	(0.8)	23.0	(0.8)	8.7	(0.6
Portugal	54.5	(1.0)	28.3	(0.8)	14.0	(0.8)	3.2	(0.3)	54.8	(1.0)	27.8	(0.7)	14.6	(0.7)	2.7	(0.3
Slovak Republic	33.5	(1.0)	34.3	(0.7)	23.2	(0.8)	9.0	(0.4)	33.4	(0.9)	34.5	(0.7)	23.0	(0.7)	9.1	(0.4
Slovenia	23.5	(1.0)	35.3	(1.4)	28.7	(1.1)	12.5	(0.9)	29.6	(0.9)	35.6	(1.3)	26.7	(1.3)	8.1	(0.7
Spain	41.7	(1.0)	34.0	(0.7)	19.2	(0.8)	5.1	(0.3)	37.7	(1.1)	32.4	(0.7)	22.1	(0.8)	7.9	(0.5
Sweden Switzerland	23.9	(1.1)	35.8 33.6	(0.7)	16.2 28.2	(0.7)	14.3	(0.5)	39.5 37.0	(1.2)	34.2 34.2	(0.7)	19.0 20.3	(0.9)	7.3 8.5	(0.5
Turkey	44.1	(1.1)	28.8	(0.7)	21.2	(0.6)	5.9	(0.5)	40.7	(1.0)	31.4	(0.7)	21.9	(0.7)	5.9	(0.4
United Kingdom	41.4	(0.8)	34.5	(0.6)	18.6	(0.6)	5.4	(0.3)	50.4	(0.8)	30.5	(0.7)	15.1	(0.6)	3.9	(0.3
United States	50.5	(1.0)	29.6	(0.8)	16.1	(0.7)	3.8	(0.3)	54.7	(1.0)	26.6	(0.6)	15.3	(0.6)	3.4	(0.3
OECD average	34.3	(0.1)	34.4	(0.1)	22.6	(0.1)	8.7	(0.1)	39.7	(0.2)	33.5	(0.1)	19.9	(0.1)	6.9	(0.1
Albania	62.2	(0.9)	20.8	(0.7)	11.3	(0.5)	5.7	(0.5)	57.0	(0.9)	26.0	(0.7)	14.8	(0.6)	2.2	(0.2
Algeria	55.9	(1.0)	19.3	(0.5)	15.2	(0.6)	9.6	(0.5)	41.5	(0.8)	31.5	(0.8)	19.3	(0.6)	7.6	(0.4
Albania Algeria Brazil	58.9	(0.7)	25.3	(0.5)	12.4	(0.4)	3.3	(0.2)	47.0	(0.7)	30.0	(0.5)	18.3	(0.5)	4.7	(0.2
B-S-J-G (China)	44.9	(1.0)	32.6	(0.8)	18.7	(0.8)	3.8	(0.3)	46.2	(1.1)	30.6	(0.8)	19.6	(0.7)	3.7	(0.3
Bulgaria	45.9	(1.0)	33.4	(0.8)	15.9	(0.6)	4.9	(0.4)	39.0	(0.9)	32.2	(0.7)	21.3	(0.7)	7.4	(0.4
CABA (Argentina) Colombia	58.3 57.7	(1.9)	25.1 27.1	(1.3)	12.9	(0.8)	3.7 2.9	(0.6)	41.3	(1.8)	31.3 29.6	(1.5)	19.3 21.0	(1.2)	8.1 6.2	(0.4
Costa Rica	65.2	(0.9)	22.5	(0.5)	9.8	(0.5)	2.6	(0.2)	53.1	(0.9)	27.9	(0.7)	14.7	(0.5)	4.3	(0.3
Croatia	29.3	(0.8)	34.7	(0.7)	25.9	(0.7)	10.2	(0.6)	30.8	(0.8)	34.3	(0.7)	25.5	(0.8)	9.4	(0.6
Cyprus*	38.1	(0.6)	29.4	(0.6)	22.8	(0.6)	9.7	(0.4)	38.4	(0.8)	33.6	(0.7)	20.8	(0.7)	7.2	(0.3
Dominican Republic	72.2	(1.0)	17.0	(0.7)	8.4	(0.6)	2.5	(0.3)	58.1	(1.2)	22.2	(0.8)	15.6	(0.7)	4.0	(0.4
FYROM	50.7	(0.6)	25.4	(0.6)	17.8	(0.5)	6.2	(0.4)	49.7	(0.8)	27.6	(0.8)	18.6	(0.6)	4.0	(0.3
Georgia	71.3	(0.7)	18.7 44.1	(0.6)	8.4 24.4	(0.5)	1.6 3.6	(0.2)	39.0	(0.9)	27.6 44.7	(0.6)	27.4	(0.7)	6.0 2.9	(0.4
Hong Kong (China) Indonesia	23.0	(0.9)	23.1	(0.8)	44.9	(1.0)	9.0	(0.3)	36.6	(0.8)	29.2	(0.8)	29.1	(0.8)	5.1	(0.4
Jordan	56.5	(1.2)	25.2	(0.8)	12.4	(0.6)	6.0	(0.5)	52.8	(1.0)	29.2	(0.7)	13.2	(0.5)	4.8	(0.4
Kosovo	53.5	(0.9)	19.8	(0.6)	15.4	(0.7)	11.3	(0.7)	65.6	(0.8)	21.1	(0.8)	11.6	(0.5)	1.7	(0.2
Lebanon	49.0	(1.5)	26.8	(1.1)	19.1	(0.9)	5.1	(0.5)	44.5	(1.3)	31.6	(1.2)	18.0	(0.9)	5.9	(0.6
Lithuania	30.3	(0.6)	32.3	(0.7)	27.9	(0.6)	9.5	(0.4)	44.5	(0.8)	31.3	(0.6)	19.4	(0.6)	4.9	(0.3
Macao (China) Malta	27.8	(0.8)	40.1	(0.9)	28.2	(0.7)	3.8	(0.3)	30.0	(0.7)	39.8	(0.9)	27.3	(0.7)	2.9	(0.3
Moldova	49.4 51.2	(0.8)	28.4	(0.7)	16.7 21.6	(0.6)	5.5 4.1	(0.4)	48.7 57.6	(0.8)	30.6 24.6	(0.8)	15.2 15.8	(0.6)	5.5 2.0	(0.2
Montenegro	42.6	(0.7)	30.4	(0.8)	18.9	(0.6)	8.2	(0.4)	40.9	(0.8)	32.5	(0.8)	18.7	(0.5)	7.9	(0.4
Peru	55.6	(0.9)	28.5	(0.7)	13.2	(0.5)	2.8	(0.2)	47.4	(0.8)	31.0	(0.7)	18.2	(0.6)	3.4	(0.3
Qatar	48.6	(0.4)	30.7	(0.4)	16.1	(0.3)	4.6	(0.2)	49.2	(0.5)	31.0	(0.5)	16.2	(0.4)	3.6	(0.2
Romania	42.3	(1.1)	28.1	(0.7)	24.0	(0.7)	5.6	(0.4)	41.4	(1.0)	29.5	(0.9)	24.6	(0.8)	4.5	(0.3
Russia	44.2	(1.1)	34.2	(0.7)	17.3	(0.8)	4.3	(0.4)	45.9	(1.1)	35.6	(0.7)	15.3	(0.6)	3.2	(0.3
Singapore Chinese Taipei	38.1	(0.7)	41.4 35.2	(0.8)	17.9 36.4	(0.5)	2.5 6.3	(0.2)	48.2	(0.6)	38.2 37.8	(0.7)	12.0 19.1	(0.4)	1.6	(0.2
Thailand	56.2	(0.6)	26.2	(0.6)	16.0	(0.6)	1.7	(0.3)	49.0	(0.7)	29.1	(0.6)	19.1	(0.6)	2.3	(0.2
Trinidad and Tobago	47.1	(0.8)	26.2	(0.8)	19.7	(0.7)	6.7	(0.4)	40.2	(0.9)	29.1	(0.8)	21.7	(0.6)	8.6	(0
Tunisia	44.7	(1.0)	28.4	(0.6)	20.3	(0.7)	6.5	(0.4)	36.6	(0.9)	31.8	(0.7)	25.3	(0.8)	6.3	(0.4
United Arab Emirates	51.0	(0.6)	29.4	(0.5)	14.5	(0.4)	5.2	(0.3)	48.9	(0.6)	30.7	(0.5)	15.9	(0.4)	4.4	(0.3
Uruguay	49.3	(0.9)	30.9	(0.7)	15.5	(0.6)	4.3	(0.3)	43.1	(0.8)	31.0	(0.7)	20.0	(0.7)	5.9	(0.4
Viet Nam	47.2	(0.9)	36.6	(8.0)	14.4	(0.7)	1.8	(0.2)	54.4	(1.0)	35.8	(0.8)	8.8	(0.5)	1.0	(0.2
Argentina**	65.7	(0.8)	22.2	(0.7)	9.2	(0.4)	2.9	(0.2)	51.2	(0.9)	28.4	(0.6)	15.4	(0.6)	5.0	(0.3
Kazakhstan**	50.2	(1.0)	35.4	(0.9)	12.5	(0.6)	1.9	(0.2)	53.0	(0.9)	35.0	(0.8)	10.3	(0.5)	1.6	(0.2

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** http://dx.doi.org/10.1787/888933436489



[Part 2/3]

Table II.3.22 Teacher support in science classes

				Percent	age of stu	ıdents rep	orting th	at the fol	lowing th	ings happ	en in the	ir scienc	e lessons			
		The	teacher l	helps stud	ents with	their lea	rning		The	e teacher	continue	s teachin	g until th	e student	s underst	tand
	Every	lesson	Most	lessons	Some	lessons		ever dly ever	Every	lesson	Most	essons	Some	lessons		ever dly eve
	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Australia Austria Belgium	52.3	(0.6)	31.3	(0.5)	13.3	(0.4)	3.0	(0.2)	43.5 29.6	(0.7)	31.3	(0.6)	18.2	(0.4)	7.0	(0.3)
Austria Belgium	16.8 28.0	(0.7)	23.2	(0.6)	29.2 27.8	(0.7)	30.9 16.4	(1.1)	35.0	(1.0) (0.8)	27.6 31.9	(0.8)	26.0	(0.7)	16.9 9.2	(0.9)
Canada	55.2	(0.7)	28.6	(0.5)	12.4	(0.5)	3.8	(0.2)	44.7	(0.6)	30.7	(0.4)	16.6	(0.5)	8.0	(0.4)
Chile	53.9	(0.9)	30.6	(0.7)	13.5	(0.5)	2.1	(0.2)	47.8	(1.1)	30.4	(0.8)	17.0	(0.7)	4.8	(0.4)
Czech Republic	20.2	(0.7)	28.8	(0.7)	32.1	(0.9)	18.9	(0.7)	23.6	(0.8)	28.9	(0.7)	31.1	(0.7)	16.5	(0.7)
Denmark	45.0	(0.9)	37.4	(0.7)	14.3	(0.6)	3.3	(0.3)	39.0	(0.9)	35.5	(0.7)	19.4	(0.7)	6.1	(0.4)
Estonia	39.2	(0.9)	35.1	(0.7)	19.3	(0.7)	6.4	(0.3)	31.7	(0.9)	33.8	(0.8)	22.9	(0.8)	11.6	(0.5)
Finland France	51.3 33.2	(0.8)	35.3 34.8	(0.6)	10.7 22.5	(0.5)	2.7 9.4	(0.3)	36.3 36.5	(0.9)	38.2 30.8	(0.7)	20.1	(0.6)	5.5 10.7	(0.4
Germany	19.2	(0.7)	30.2	(0.7)	30.1	(0.8)	20.5	(0.4)	30.1	(0.9)	30.6	(0.8)	25.8	(0.8)	13.5	(0.6
Greece	49.2	(1.0)	28.7	(0.6)	16.4	(0.6)	5.7	(0.5)	38.5	(1.0)	28.9	(0.7)	22.3	(0.7)	10.4	(0.6
Hungary	25.7	(0.8)	30.6	(0.8)	26.6	(0.7)	17.0	(0.7)	27.9	(0.9)	28.8	(0.8)	25.7	(0.7)	17.5	(0.7
Iceland	54.0	(0.9)	29.8	(0.8)	12.7	(0.6)	3.4	(0.3)	52.4	(0.8)	29.0	(0.8)	14.6	(0.6)	4.0	(0.4
Ireland	45.9	(1.0)	31.4	(0.7)	16.9	(0.7)	5.8	(0.4)	43.7	(1.0)	29.2	(0.6)	18.7	(0.6)	8.4	(0.6
Israel	36.4	(0.8)	29.5	(0.6)	24.1	(0.7)	9.9	(0.6)	44.4	(1.0)	27.9	(0.7)	18.9	(0.6)	8.8	(0.6
Italy Japan	33.1 34.1	(0.7)	38.7 42.4	(0.7)	22.0 17.9	(0.5)	6.2 5.6	(0.4)	29.3 30.6	(0.6)	34.4 38.6	(0.7)	25.8	(0.6)	10.4 8.8	(0.5
Korea	34.5	(0.8)	43.3	(0.7)	18.6	(0.6)	3.6	(0.3)	28.8	(0.8)	38.7	(0.8)	25.6	(0.7)	6.9	(0.5
Latvia	39.1	(0.8)	37.3	(0.8)	18.3	(0.6)	5.3	(0.5)	33.2	(0.7)	34.7	(0.7)	23.4	(0.6)	8.7	(0.5
Luxembourg	21.3	(0.5)	26.2	(0.6)	28.4	(0.6)	24.2	(0.6)	33.6	(0.7)	29.7	(0.7)	24.2	(0.7)	12.5	(0.5
Mexico	58.4	(0.9)	26.7	(0.6)	12.9	(0.6)	1.9	(0.2)	54.2	(0.9)	25.5	(0.6)	16.1	(0.6)	4.1	(0.3
Netherlands	14.2	(0.8)	29.5	(0.7)	37.7	(0.8)	18.6	(0.8)	23.2	(0.9)	38.6	(0.8)	29.1	(0.8)	9.1	(0.5
New Zealand	53.7	(0.9)	31.6	(0.8)	12.3	(0.5)	2.4	(0.3)	42.5	(0.9)	32.5	(0.8)	18.7	(0.7)	6.3	(0.5
Norway	44.2	(1.0)	36.7	(0.7)	14.8	(0.6)	4.3	(0.4)	38.8	(1.0)	33.0	(0.7)	19.9	(0.7)	8.3	(0.5
Poland Portugal	31.2 59.1	(0.9)	35.5 27.1	(0.8)	24.8	(0.7)	8.5 2.3	(0.5)	33.2 56.7	(1.0)	29.1 26.2	(0.7)	24.2 13.1	(0.8)	13.5 4.0	(0.7
Slovak Republic	23.7	(0.8)	28.4	(0.7)	28.9	(0.7)	19.0	(0.2)	27.6	(0.9)	28.2	(0.7)	28.2	(0.8)	16.1	(0.6
Slovenia	18.8	(0.9)	30.3	(1.2)	32.5	(1.1)	18.5	(0.9)	21.9	(1.0)	30.0	(1.1)	33.0	(1.3)	15.1	(1.0
Spain	45.2	(1.1)	33.4	(0.7)	17.3	(0.7)	4.1	(0.3)	42.0	(1.0)	30.2	(0.8)	20.5	(0.8)	7.3	(0.5
Sweden	46.8	(1.1)	33.4	(0.7)	15.1	(0.7)	4.7	(0.5)	42.2	(1.2)	31.1	(0.8)	18.6	(0.7)	8.1	(0.6
Switzerland	27.9	(0.9)	30.7	(0.9)	25.6	(0.8)	15.8	(0.7)	34.3	(0.9)	31.2	(0.8)	23.6	(0.7)	10.8	(0.7
Turkey	49.7	(1.0)	30.3	(0.8)	15.9	(0.6)	4.0	(0.4)	44.5	(1.1)	28.7	(0.7)	20.7	(0.7)	6.1	(0.3
United Kingdom	54.5	(0.9)	30.3	(0.6)	12.4	(0.5)	2.8	(0.2)	43.9	(0.9)	30.5	(0.8)	18.7	(0.6)	6.9	(0.4
United States	58.2	(0.9)	26.7	(0.7)	12.7	(0.5)	2.4	(0.3)	47.8	(0.9)	27.6	(0.6)	18.2	(0.6)	6.4	(0.4
OECD average	39.2	(0.1)	31.8	(0.1)	20.0	(0.1)	9.0	(0.1)	37.5	(0.2)	31.2	(0.1)	21.9	(0.1)	9.4	(0.1
Albania Algeria Brazil	71.6	(0.8)	18.3	(0.7)	8.2	(0.5)	1.8	(0.2)	68.9	(0.9)	18.5	(0.8)	10.1	(0.6)	2.5	(0.3
Algeria	62.1	(0.8)	19.8	(0.6)	13.5	(0.6)	4.6	(0.4)	60.1	(1.1)	22.3	(0.9)	12.0	(0.6)	5.6	(0.4
Brazil B-S-J-G (China)	57.0 51.0	(0.7)	27.8	(0.6)	12.6 16.4	(0.5)	2.6 3.1	(0.2)	55.0 36.4	(0.6)	25.6 31.7	(0.5)	14.9 26.6	(0.4)	4.5 5.4	(0.2
Bulgaria	37.0	(0.9)	29.5	(0.6)	22.1	(0.7)	11.4	(0.5)	45.7	(0.8)	29.1	(0.7)	17.9	(0.6)	7.3	(0.4
CABA (Argentina)	51.4	(1.9)	30.3	(0.8)	14.7	(1.1)	3.6	(0.7)	46.9	(1.5)	28.5	(1.0)	17.8	(1.0)	6.7	(1.0
Colombia	53.1	(0.9)	29.5	(0.6)	15.0	(0.5)	2.4	(0.2)	47.9	(0.9)	27.7	(0.6)	19.6	(0.6)	4.8	(0.3
Costa Rica	60.9	(0.9)	25.7	(0.7)	11.1	(0.5)	2.4	(0.2)	55.3	(1.0)	25.5	(0.6)	15.0	(0.6)	4.2	(0.3
Croatia	22.5	(0.8)	27.3	(0.7)	32.1	(0.8)	18.2	(0.7)	24.7	(0.9)	26.2	(0.6)	31.6	(0.7)	17.5	(0.6
Cyprus*	43.4	(0.6)	32.6	(0.6)	18.8	(0.6)	5.2	(0.4)	36.7	(0.7)	31.1	(0.7)	23.0	(0.6)	9.2	(0.4
Dominican Republic	67.4	(1.0)	19.8	(0.7)	10.6	(0.6)	2.1	(0.3)	63.3	(1.2)	20.5	(0.9)	12.1	(0.7)	4.0	(0.4
FYROM Georgia	50.0 58.0	(0.7)	23.9	(0.8)	20.4	(0.7)	5.7 3.2	(0.4)	55.1 56.3	(0.8)	22.5 22.6	(0.7)	16.0 15.9	(0.6)	6.4 5.2	(0.4
Hong Kong (China)	32.4	(0.7)	45.3	(1.0)	19.5	(0.5)	2.8	(0.3)	29.0	(0.8)	42.5	(0.6)	24.5	(0.6)	4.0	(0.3
Indonesia	52.0	(0.8)	25.6	(0.6)	18.0	(0.7)	4.4	(0.4)	61.7	(0.9)	24.0	(0.7)	12.4	(0.7)	2.0	(0.3
Jordan	60.7	(1.0)	23.1	(0.7)	12.3	(0.7)	3.9	(0.3)	60.4	(1.1)	21.1	(0.7)	12.3	(0.6)	6.3	(0.
Kosovo	76.9	(0.7)	14.9	(0.7)	6.6	(0.4)	1.7	(0.2)	75.6	(0.7)	14.6	(0.6)	7.4	(0.5)	2.3	(0.3
Lebanon	51.8	(1.3)	26.3	(0.9)	18.0	(0.9)	3.9	(0.4)	62.4	(1.4)	19.9	(0.7)	12.0	(0.9)	5.7	(0.5
Lithuania	47.8	(0.8)	30.6	(0.7)	16.7	(0.6)	4.9	(0.3)	40.8	(0.7)	29.4	(0.6)	21.2	(0.6)	8.6	(0.4
Macao (China) Malta	31.8 53.0	(0.7)	41.6	(0.8)	23.9	(0.7)	2.8 3.9	(0.2)	29.2 54.0	(0.7)	39.5 25.1	(0.8)	27.0 14.9	(0.7)	4.3 6.0	(0.2
Moldova	62.6	(0.9)	23.2	(0.6)	11.9	(0.6)	2.3	(0.4)	60.4	(1.0)	21.5	(0.6)	15.4	(0.6)	2.7	(0.2
Montenegro	35.2	(0.8)	29.1	(0.7)	23.6	(0.7)	12.1	(0.6)	40.4	(0.8)	28.7	(0.7)	21.1	(0.6)	9.9	(0
Peru	52.0	(0.9)	31.5	(0.8)	14.5	(0.6)	2.0	(0.2)	47.0	(0.8)	29.4	(0.6)	19.8	(0.6)	3.8	(0.
Qatar	53.1	(0.4)	28.5	(0.4)	15.2	(0.3)	3.2	(0.2)	50.4	(0.5)	27.2	(0.4)	16.7	(0.4)	5.7	(0.
Romania	47.1	(1.1)	26.6	(0.7)	19.7	(0.7)	6.6	(8.0)	46.4	(1.0)	26.5	(0.7)	21.6	(0.8)	5.5	(0.
Russia	44.9	(1.1)	35.4	(0.9)	16.9	(0.7)	2.8	(0.3)	44.2	(1.1)	30.2	(0.9)	19.4	(0.9)	6.1	(0.
Singapore	50.6	(0.6)	38.3	(0.7)	9.7	(0.4)	1.4	(0.2)	44.1	(0.6)	37.5	(0.7)	15.6	(0.5)	2.7	(0.2
Chinese Taipei	44.5	(0.8)	36.6	(0.7)	16.7	(0.6)	2.2	(0.2)	32.0	(0.7)	35.2	(0.6)	28.4	(0.6)	4.4	(0
Thailand Trinidad and Tobago	52.0 46.6	(0.9)	27.5 28.5	(0.7)	18.5 19.7	(0.7)	2.0 5.2	(0.2)	51.1 42.3	(0.9)	27.5 26.1	(0.6)	18.6 22.5	(0.7)	2.7 9.1	(0
Tunisia	46.8	(0.9)	29.7	(0.7)	18.9	(0.8)	4.5	(0.4)	43.3	(1.0)	27.4	(0.7)	21.7	(0.8)	7.6	(0
United Arab Emirates		(0.7)	27.6	(0.6)	13.5	(0.4)	3.8	(0.4)	53.6	(0.6)	26.0	(0.5)	14.7	(0.5)	5.7	(0.4
Uruguay	48.6	(0.8)	31.8	(0.7)	15.5	(0.6)	4.0	(0.4)	48.6	(0.9)	29.1	(0.7)	17.3	(0.7)	5.0	(0.4
Viet Nam	40.4	(0.9)	35.3	(0.9)	18.6	(0.7)	5.8	(0.5)	45.1	(1.1)	36.5	(0.9)	16.1	(0.6)	2.3	(0.2
Argentina**	60.2	(0.8)	26.3	(0.7)	10.9	(0.5)	2.6	(0.3)	56.1	(0.9)	24.8	(0.7)	14.6	(0.5)	4.5	(0.4
Kazakhstan**	60.4	(1.1)	31.5	(0.9)	7.2	(0.5)	0.9	(0.1)	57.0	(1.0)	31.7	(0.9)	9.4	(0.5)	1.9	(0.2
			30.8	(0.7)	11.1	(0.6)	0.6	(0.1)	51.7	(1.0)	30.2	(0.7)	16.2	(0.7)	1.9	(0.2

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 3/3]

Table II.3.22 Teacher support in science classes

		Percent	age of students rep	orting that the fol	llowing things hap	pen in their science	elessons	-
			The teacher	gives students an	opportunity to exp	ress opinions		
	Every	lesson	Most	lessons	Some	lessons	Never or l	nardly ever
	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Australia	37.9	(0.6)	33.7	(0.5)	21.1	(0.5)	7.4	(0.3)
Austria	34.5	(1.0)	29.1	(0.7)	22.2	(0.7)	14.2	(0.7)
Belgium	29.8	(0.7)	29.5	(0.6)	28.1	(0.6)	12.6	(0.5)
Canada	41.9	(0.6)	31.5	(0.5)	18.9	(0.4)	7.6	(0.4
Chile	44.2	(1.0)	30.7	(0.6)	20.2	(0.8)	5.0	(0.4)
Czech Republic	32.4	(0.9)	30.9	(0.7)	24.9	(0.6)	11.8	(0.6)
Denmark	35.6	(0.8)	37.1	(0.6)	20.7	(0.7)	6.6	(0.4)
Estonia	37.6	(0.9)	32.3	(0.8)	22.8	(0.6)	7.3	(0.4)
Finland	40.0	(1.0)	36.9	(0.7)	18.0	(0.6)	5.1	(0.4)
France	32.0	(1.0)	31.5	(0.6)	24.4	(0.7)	12.1	(0.6)
Germany	30.3	(0.7)	33.4	(0.6)	24.8	(0.7)	11.5	(0.6)
Greece	44.8	(1.0)	27.0	(0.6)	20.4	(0.7)	7.9	(0.5)
Hungary	30.8	(0.9)	31.9	(0.8)	24.8	(0.6)	12.4	(0.6)
Iceland	48.3	(0.8)	31.8	(0.9)	14.9	(0.6)	5.0	(0.4)
Ireland	33.0	(1.0)	29.4	(0.8)	24.2	(0.7)	13.3	(0.7)
Israel	39.0	(0.9)	29.3	(0.7)	21.9	(0.6)	9.9	(0.5)
Italy	32.3	(0.6)	33.5	(0.6)	25.7	(0.7)	8.5	(0.4)
Japan	22.6	(0.9)	30.4	(0.7)	30.4	(0.8)	16.6	(0.8)
Korea	24.4	(0.7)	35.0	(0.8)	30.1	(0.7)	10.6	(0.6)
Latvia	36.2	(0.8)	34.1	(0.8)	23.0	(0.7)	6.6	(0.4)
Luxembourg	36.5	(0.8)	30.2	(0.8)	21.6	(0.6)	11.7	(0.4)
Mexico	55.8	(1.0)	26.5	(0.6)	14.6	(0.6)	3.1	(0.4)
Netherlands	19.5	(0.9)	38.2	(0.8)	31.1	(0.8)	11.2	(0.6)
New Zealand	36.3	(0.8)	34.0	(0.7)	21.6	(0.6)	8.1	(0.5)
Norway	39.1	(0.9)	35.9	(0.8)	19.2	(0.6)	5.8	(0.4)
Poland	31.1	(0.9)	30.6	(0.7)	26.0	(0.7)	12.3	(0.7)
Portugal	50.9	(1.0)	28.9	(0.7)	15.7	(0.7)	4.5	(0.4)
Slovak Republic	33.2	(0.9)	31.1	(0.6)	24.9	(0.7)	10.7	(0.5)
Slovenia	31.2	(0.9)	37.0	(1.3)	23.5	(1.0)	8.3	(0.7)
Spain	35.0	(1.0)	30.0	(0.6)	24.8	(0.7)	10.2	(0.5)
Sweden	39.8	(1.1)	34.5	(0.8)	19.8	(0.7)	5.9	(0.5)
Switzerland	39.5	(1.0)	33.0	(0.7)	18.9	(0.8)	8.6	(0.5)
Turkey	45.5	(1.1)	28.9	(0.9)	19.7	(0.6)	5.8	(0.4)
United Kingdom	34.1	(0.9)	30.8	(0.7)	23.9	(0.7)	11.1	(0.4)
United States	43.2	(1.0)	27.9	(0.6)	21.2	(0.7)	7.7	(0.5)
OECD average	36.5	(0.2)	31.9	(0.1)	22.5	(0.1)	9.1	(0.1)
Albania	63.3	(0.9)	23.5	(0.7)	10.6	(0.6)	2.5	(0.3)
Albania Algeria Brazil	41.9	(1.0)	29.4	(0.9)	18.2	(0.6)	10.5	(0.6)
	49.7	(0.7)	26.9	(0.5)	17.5	(0.5)	5.9	(0.3)
B-S-J-G (China)	41.1	(0.9)	29.6	(0.6)	23.7	(0.7)	5.7	(0.4)
Bulgaria	43.1	(0.9)	30.1	(0.8)	19.4	(0.8)	7.4	(0.4)
CABA (Argentina)	40.5	(2.0)	30.9	(1.6)	20.5	(1.1)	8.1	(1.1)
Colombia	48.2	(0.8)	28.3	(0.6)	19.4	(0.6)	4.1	(0.3)
Costa Rica	49.5	(0.9)	27.5	(0.6)	17.3	(0.5)	5.7	(0.4)
Croatia	33.4	(1.0)	32.1	(0.7)	25.4	(0.8)	9.1	(0.5)
Cyprus*	38.2	(0.7)	31.3	(0.7)	22.4	(0.6)	8.2	(0.4)
Dominican Republic	64.6	(1.0)	21.4	(0.8)	11.0	(0.6)	3.0	(0.4)
FYROM	53.3	(0.8)	25.2	(0.7)	16.9	(0.6)	4.5	(0.3)
Georgia	67.0	(0.8)	21.0	(0.7)	9.9	(0.5)	2.2	(0.2)
Hong Kong (China)	28.1	(0.9)	43.2	(0.9)	24.8	(0.8)	3.9	(0.4)
Indonesia	50.1	(1.1)	28.0	(0.8)	19.6	(0.8)	2.3	(0.2)
Jordan	47.7	(1.0)	28.9	(0.6)	15.5	(0.6)	7.9	(0.5)
Kosovo	67.8	(0.8)	19.5	(0.7)	9.8	(0.5)	2.8	(0.3)
Lebanon	48.8	(1.3)	27.2	(0.9)	18.1	(0.9)	5.8	(0.5)
Lithuania	38.0	(0.8)	31.2	(0.7)	22.9	(0.5)	7.9	(0.4)
Macao (China)	28.0	(0.6)	37.5	(0.8)	29.6	(0.8)	4.8	(0.3)
Malta	40.2	(0.9)	32.4	(0.8)	19.3	(0.7)	8.0	(0.5)
Moldova	65.0	(0.8)	22.4	(0.6)	11.2	(0.5)	1.3	(0.2)
Montenegro	40.9	(0.7)	28.9	(0.7)	21.1	(0.6)	9.2	(0.4)
Peru	54.4	(0.9)	28.5	(0.7)	15.0	(0.6)	2.1	(0.2)
Qatar	40.5	(0.4)	29.1	(0.5)	22.4	(0.4)	8.0	(0.3)
Romania	40.6	(1.0)	29.6	(0.8)	24.9	(0.8)	4.8	(0.4)
Russia	41.7	(1.3)	31.2	(0.8)	21.6	(0.9)	5.5	(0.4)
Singapore	38.6	(0.6)	37.7	(0.7)	18.9	(0.5)	4.8	(0.3)
Chinese Taipei	38.4	(0.7)	35.8	(0.7)	22.2	(0.6)	3.6	(0.3)
	53.6	(0.9)	25.9	(0.6)	18.2	(0.7)	2.3	(0.2)
Thailand	39.9	(0.9)	28.4	(0.8)	23.8	(0.8)	7.9	(0.2)
Thailand		(0.9)	28.7	(0.6)	25.5	(0.7)	7.6	(0.3)
Trinidad and Tobago		(0.7)		(0.5)	19.6	(0.7)	8.1	(0.4)
Trinidad and Tobago Tunisia	38.2	(0.7)				10.37		(0.4)
Trinidad and Tobago Tunisia United Arab Emirates	43.9	(0.7)	28.5					
Trinidad and Tobago Tunisia United Arab Emirates Uruguay	43.9 45.0	(0.9)	29.7	(0.6)	19.7	(0.6)	5.6	(0.4)
Trinidad and Tobago Tunisia United Arab Emirates	43.9							(0.4)
Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam Argentina**	43.9 45.0 57.8 48.5	(0.9) (1.0) (0.9)	29.7 33.7 27.8	(0.6)	19.7 7.8	(0.6) (0.5) (0.7)	5.6 0.7 5.2	(0.4)
Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	43.9 45.0 57.8	(0.9) (1.0)	29.7 33.7	(0.6) (0.8)	19.7 7.8	(0.6) (0.5)	5.6 0.7	(0.4)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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Table II.3.24 Legislation on including parents in school activities¹

	rercentage of students in schools whose principals rep on including parent	orted that there is national, state or district legislation s in school activities
	%	S.E.
Australia	52.3	(2.1)
Austria	86.5	(1.5)
Belgium	78.0	(2.7)
Canada	85.1	(1.6)
Chile	62.9	(3.7)
Czech Republic	57.5	(3.1)
Denmark Estonia	60.7 58.2	(3.1) (2.7)
Finland	90.8	(2.2)
France	m	m
Germany	87.1	(2.6)
Greece	75.9	(3.6)
Hungary	75.5	(3.2)
Iceland	99.7	(0.0)
Ireland	79.5	(3.5)
Israel	56.0	(4.0)
Italy	79.4	(3.3)
Japan	7.8	(1.9)
Korea	88.1	(2.5)
Latvia	67.9	(2.6)
Luxembourg	73.3	(0.1)
Mexico Netherlands	72.4 60.4	(2.8)
New Zealand	60.4 61.2	(5.4) (3.6)
Norway	84.6	(3.6)
Poland	67.0	(3.4)
Portugal	89.5	(2.1)
Slovak Republic	23.7	(3.2)
Slovenia	72.3	(0.6)
Spain	68.0	(3.0)
Sweden	90.2	(2.4)
Switzerland	47.2	(4.0)
Turkey	94.4	(1.7)
United Kingdom	49.3	(3.7)
United States	69.7	(3.4)
OECD average	69.8	(0.5)
	0.60	(4.4)
Albania Algeria Brazil	96.9	(1.1)
Algeria	91.0	(2.6)
Brazil	64.6	(2.4)
B-S-J-G (China) Bulgaria	32.9 70.3	(3.5) (3.8)
CABA (Argentina)	61.7	(7.1)
Colombia	86.2	(2.8)
Costa Rica	62.3	(3.8)
Croatia	88.8	(2.3)
Cyprus*	48.7	(0.2)
Dominican Republic	94.0	(1.5)
FYROM	87.1	(0.1)
Georgia	78.0	(2.7)
Hong Kong (China)	55.2	(4.9)
Indonesia	85.7	(2.7)
Jordan	86.6	(2.5)
Kosovo	94.3	(0.9)
Lebanon	76.2	(2.7)
Lithuania	78.3	(2.7)
Macao (China)	26.9	(0.1)
Malta	59.6	(0.1)
Moldova	91.9	(1.8)
Montenegro	89.8	(0.1)
Peru	81.6	(2.6)
Qatar	68.4	(0.1)
Romania	96.6	(1.5)
Russia	92.8	(2.1)
Singapore	18.1	(0.9)
Chinese Taipei	92.8	(1.6)
Thailand	73.0	(3.7)
Trinidad and Tobago Tunisia	49.8 52.1	(0.3)
United Arab Emirates	52.1 74.1	(4.8) (2.4)
United Arab Emirates Uruguay	68.7	(2.4)
Viet Nam	94.0	(2.5)
·	J 1.0	(2.2)
Argentina**	69.5	(3.6)
Kazakhstan**	87.4	(2.6)
Kazakiistaii		

^{1.} Depending on the education system, the question refers to national, state and/or district. For instance, in Sweden it refers only to national legislation and in Japan only to local legislation.
* See note at the beginning of this Annex.
** Coverage is too small to ensure comparability (see Annex A4).

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Table II.3.26 School efforts to involve parents

			Percentage of stud	ents in schools wl	iose principals rep	orted that the foll	owing statements		
		and accepting	rides a welcoming ng atmosphere o get involved	Our school de forms of sch and home communication programmes	esigns effective nool-to-home e-to-school ns about school and children's gress	Our school ir	ncludes parents I decisions	Our school prov and ideas for how to help st with homew curriculum-re	
		%	S.E.	%	S.E.	%	S.E.	%	S.E.
	Australia	98.2	(0.4)	96.2	(0.9)	79.8	(1.9)	92.4	(1.1)
	Austria	85.6	(2.2)	85.7	(2.2)	77.3	(2.5)	70.0	(3.4)
	Belgium	84.1	(2.4)	81.6	(2.2)	60.5	(3.4)	63.1	(3.1)
	Canada	96.0	(0.8)	93.1	(1.2)	83.2	(2.1)	89.8	(1.4)
	Chile	96.6	(1.5)	92.5	(2.1)	59.1	(4.4)	95.4	(1.6)
	Czech Republic	100.0	(1.5) C	98.5	(0.6)	63.6	(3.2)	86.0	(2.1)
ì	Denmark	97.7	(0.9)	90.7	(2.1)	67.7	(2.9)	88.1	(2.1)
	Estonia	99.7	(0.3)	99.3	(0.5)	96.0	(1.0)	92.3	(1.6)
	Finland	97.1	(1.4)	92.6	(2.2)	67.8	(3.8)	92.5	(2.2)
	France	m	m	m	m	m	m	m	m
	Germany	97.8	(1.7)	96.6	(1.4)	96.7	(1.3)	87.0	(2.6)
	Greece	99.6	(0.3)	99.5	(0.4)	44.4	(4.5)	90.6	(2.1)
	Hungary	99.2	(0.6)	88.3	(1.7)	86.7	(2.5)	80.8	(2.7)
	Iceland	97.2	(0.1)	99.8	(0.0)	87.2	(0.2)	95.4	(0.1)
	Ireland	100.0	С	98.8	(0.9)	98.6	(1.0)	93.8	(2.1)
	Israel	81.6	(3.0)	75.9	(3.8)	56.2	(3.9)	83.1	(3.2)
	Italy	98.7	(0.8)	96.2	(1.5)	77.7	(3.4)	87.8	(1.9)
	Japan	96.5	(1.3)	87.4	(2.4)	11.2	(2.3)	81.5	(3.0)
	Korea	95.2	(1.7)	94.9	(1.7)	96.9	(1.4)	93.5	(2.0)
	Latvia	100.0	(1.7) C	89.5	(1.8)	95.4	(1.3)	95.8	(0.8)
	Luxembourg	93.1		65.6	(0.1)	66.4	(0.1)	76.3	(0.0)
			(0.1)						
	Mexico	96.8	(1.2)	90.7	(2.0)	75.2	(3.1)	90.6	(1.8)
	Netherlands	98.7	(1.2)	91.5	(2.8)	81.8	(3.8)	67.0	(5.2)
	New Zealand	99.5	(0.5)	98.5	(0.9)	85.6	(2.9)	91.2	(2.4)
	Norway	99.4	(0.6)	98.0	(1.0)	75.7	(2.9)	90.2	(2.3)
	Poland	99.3	(0.7)	96.1	(1.3)	98.2	(1.0)	100.0	(0.0)
	Portugal	98.5	(1.1)	97.5	(1.2)	93.4	(2.1)	93.8	(2.0)
	Slovak Republic	100.0	С	97.8	(1.1)	87.8	(2.0)	83.6	(2.2)
	Slovenia	100.0	С	98.1	(0.0)	91.5	(0.2)	88.4	(0.2)
	Spain	98.3	(0.9)	95.3	(1.7)	78.2	(3.3)	94.3	(1.6)
	Sweden	94.0	(1.6)	88.4	(2.3)	85.9	(2.7)	83.3	(2.5)
	Switzerland	81.9	(2.9)	86.0	(2.6)	36.7	(4.1)	69.8	(3.4)
	Turkey	97.9	(1.2)	89.0	(2.7)	91.2	(2.5)	94.8	(1.7)
	United Kingdom	100.0	(0.0)	96.9	(1.2)	75.2	(3.4)	98.3	
									(1.1)
	United States	98.1	(1.1)	92.7	(2.2)	80.9	(3.0)	90.9	(2.0)
	OECD average	96.4	(0.2)	92.3	(0.3)	76.8	(0.5)	87.4	(0.4)
Ī	Albania	100.0	С	93.9	(1.3)	98.7	(0.8)	93.6	(2.0)
	Algeria	99.0	(0.9)	75.3	(3.6)	64.5	(3.9)	74.7	(3.0)
	Brazil	99.1	(0.5)	98.0	(0.7)	87.1	(1.8)	87.7	(1.8)
	B-S-J-G (China)	89.4	(3.0)	91.6	(2.1)	53.1	(4.1)	87.7	(2.9)
	Bulgaria	99.7	(0.2)	89.1	(2.8)	75.5	(3.4)	84.6	(3.0)
	CABA (Argentina)	100.0	C (1.0)	93.3	(4.1)	43.9	(7.5)	90.2	(4.1)
	Colombia	98.1	(1.0)	96.7	(1.4)	93.2	(1.9)	94.5	(1.5)
	Costa Rica	96.4	(1.4)	93.9	(1.8)	65.2	(3.3)	90.1	(2.4)
	Croatia	96.9	(1.3)	92.3	(2.1)	93.8	(1.9)	93.3	(2.0)
	Cyprus*	97.7	(0.0)	97.7	(0.0)	35.9	(0.2)	87.7	(0.1)
	Dominican Republic	99.8	(0.2)	98.4	(0.9)	96.0	(1.4)	97.4	(1.5)
	FYROM	99.3	(0.0)	94.9	(0.1)	98.2	(0.0)	86.4	(0.1)
	Georgia	98.0	(0.9)	77.2	(2.8)	89.6	(1.9)	95.7	(1.6)
	Hong Kong (China)	99.2	(0.7)	96.6	(1.6)	84.3	(3.0)	94.8	(2.0)
	Indonesia	99.0	(0.7)	98.2	(0.9)	90.4	(1.7)	93.2	(1.9)
	Iordan	99.7	(0.3)	95.3	(1.4)	81.1	(2.7)	89.7	(2.3)
	Kosovo	100.0	(0.5) C	84.6	(0.7)	97.3	(0.5)	84.5	(0.6)
	Lebanon	93.3	(1.8)	80.9	(2.6)	53.9	(3.4)	90.0	(2.3)
	Lithuania	98.3	(1.1)	78.1	(2.5)	97.4	(0.9)	89.7	(1.8)
	Macao (China)	97.3		97.3		34.0		96.6	
			(0.0)		(0.0)		(0.1)		(0.0)
	Malta	100.0	C (1.0)	86.0	(0.1)	59.6	(0.1)	82.7	(0.1)
	Moldova	98.1	(1.0)	81.7	(2.7)	89.9	(1.8)	98.3	(0.8)
	Montenegro	100.0	С	94.1	(0.1)	91.1	(0.1)	91.3	(0.2)
	Peru	96.7	(1.1)	89.0	(1.7)	73.9	(2.4)	90.4	(2.0)
	Qatar	99.2	(0.0)	98.8	(0.0)	68.7	(0.1)	98.7	(0.0)
	Romania	97.5	(1.2)	92.9	(2.1)	97.3	(1.2)	93.4	(2.1)
	Russia	100.0	c c	98.6	(0.8)	98.0	(1.4)	98.4	(0.7)
	Singapore	100.0	c	97.5	(0.0)	47.4	(1.0)	94.4	(0.1)
	Chinese Taipei	99.5	(0.3)	96.3	(1.4)	84.0	(2.7)	93.7	(1.9)
	Thailand	100.0		95.0	(1.6)	94.9	(1.6)	95.1	(1.8)
	Trinidad and Tobago		C (0.1)						
		94.8	(0.1)	85.6	(0.2)	67.0	(0.3)	88.8	(0.2)
	Tunisia	72.4	(4.5)	34.2	(4.2)	24.6	(3.7)	49.1	(4.2)
	United Arab Emirates	99.0	(0.6)	96.5	(1.1)	81.8	(2.0)	95.7	(1.1)
	Uruguay	100.0	С	92.1	(1.6)	34.0	(2.6)	85.3	(1.9)
	Viet Nam	97.5	(1.2)	95.6	(2.1)	93.7	(2.7)	91.7	(2.3)
								1	
	Argentina**	100.0		96.8	(1.2)	50.0	(3.5)	92.8	(1.8)
	Argentina** Kazakhstan**	100.0 98.6	c (0.9)	96.8 100.0	(1.2) c	59.0 80.6	(3.5) (2.8)	92.8 96.1	(1.8) (1.2)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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Table II.3.29 Correlations between school efforts to involve parents and parents' responses and involvement

Results based on school principals' and parents' reports

	uits based on school pr	iricipais air	u parents i	еропіз							
							chool efforts to	o involve parer	nts and:		
		Parer	nts' perception in	s of school effo school activiti	orts to involve es	them		Parental invo	lvement in sch	nool activities	
		Agree that their child's school provides an inviting atmosphere for parents to get involved	Agree that their child's school provides effective communication between the school and families	Agree that their child's school involves parents in the school's decision-making process	Agree that their child's school informs families about how to help students with homework and other school-related activities	Agree that their child's school co-operates with co-operates with co-operates with community services to strengthen school programmes and student development	Have discussed their child's progress with a teacher on their own initiative	Have participated in local school government, e.g. parent council or school-management committee	Have volunteered to support school activities	Have attended a scheduled meeting or conferences for parents	Have talked about how to support learning at home and homework with their child's teachers
_		Corr. S.E.	Corr. S.E.	Corr. S.E.	Corr. S.E.	Corr. S.E.	Corr. S.E.	Corr. S.E.	Corr. S.E.	Corr. S.E.	Corr. S.E.
OECD	Belgium (Fl.)	0.030 (0.023)	0.006 (0.020)	0.022 (0.020)	0.013 (0.020)	0.018 (0.019)	0.006 (0.025)	-0.012 (0.022)	-0.023 (0.016)		0.019 (0.017)
0	Chile	0.047 (0.024)	0.034 (0.026)	0.045 (0.025)	0.059 (0.026)	0.026 (0.030)	0.009 (0.019)	0.034 (0.022)	0.027 (0.016)	0.042 (0.018)	0.029 (0.018)
	France	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m
	Germany	0.005 (0.025)	0.009 (0.026)	0.027 (0.027)	0.041 (0.024)	0.069 (0.031)	0.043 (0.045)	0.068 (0.022)	0.017 (0.020)	0.029 (0.032)	-0.004 (0.029)
	Ireland	0.017 (0.026)	-0.016 (0.020)	0.010 (0.017)	0.013 (0.024)	0.020 (0.022)	0.026 (0.023)	0.002 (0.019)	0.012 (0.017)	0.034 (0.019)	0.036 (0.013)
	Italy	-0.017 (0.022)	-0.002 (0.020)	0.008 (0.019)	0.035 (0.023)	0.042 (0.022)	-0.010 (0.027)	-0.009 (0.021)	-0.004 (0.020)	-0.025 (0.017)	0.014 (0.020)
	Korea	0.030 (0.016)	0.043 (0.015)	0.052 (0.015)	0.021 (0.021)	0.025 (0.016)	-0.002 (0.012)	0.028 (0.013)	0.023 (0.014)	0.043 (0.028)	0.014 (0.014)
	Luxembourg	0.029 (0.017)	0.052 (0.016)	0.023 (0.017)	-0.004 (0.018)	0.000 (0.017)	0.000 (0.019)	0.020 (0.022)	0.027 (0.018)	0.047 (0.017)	-0.015 (0.018)
	Mexico	0.051 (0.019)	0.046 (0.020)	0.068 (0.017)	0.068 (0.017)	0.046 (0.017)	0.076 (0.021)	0.121 (0.023)	0.042 (0.023)	0.078 (0.018)	0.111 (0.023)
	Portugal	0.024 (0.026)	0.014 (0.027)	0.052 (0.026)	0.017 (0.019)	0.016 (0.021)	-0.002 (0.028)	0.002 (0.025)	-0.002 (0.015)	-0.004 (0.014)	0.024 (0.022)
	Scotland (UK)	0.002 (0.026)	-0.006 (0.032)	-0.017 (0.019)	-0.018 (0.035)	0.031 (0.014)	0.033 (0.024)	-0.049 (0.019)	0.038 (0.018)	0.000 (0.033)	0.002 (0.021)
	Spain	-0.003 (0.018)	-0.045 (0.019)	0.006 (0.020)	0.007 (0.020)	0.019 (0.021)	0.059 (0.029)	-0.017 (0.022)	0.043 (0.017)	0.003 (0.023)	-0.006 (0.020)
	OECD average	0.019 (0.007)	0.012 (0.007)	0.027 (0.006)	0.023 (0.007)	0.028 (0.007)	0.022 (0.008)	0.017 (0.006)	0.018 (0.005)	0.023 (0.007)	0.020 (0.006)
- SI	Croatia	0.010 (0.022)	0.017 (0.016)	-0.013 (0.017)	-0.018 (0.017)	0.019 (0.021)	-0.011 (0.022)	0.003 (0.011)	0.017 (0.012)	0.003 (0.015)	-0.019 (0.018)
Partners	Dominican Republic	-0.005 (0.015)	0.009 (0.015)	0.065 (0.032)	0.021 (0.017)	0.011 (0.025)	0.010 (0.014)	0.042 (0.028)	0.018 (0.025)	0.062 (0.031)	0.014 (0.017)
Pa	Georgia	0.038 (0.021)	0.028 (0.021)	0.028 (0.023)	0.022 (0.030)	-0.015 (0.022)	0.033 (0.026)	0.032 (0.026)	0.027 (0.030)	0.017 (0.024)	
	Hong Kong (China)	-0.006 (0.015)	-0.009 (0.017)	0.042 (0.023)		-0.004 (0.015)	0.032 (0.014)	0.017 (0.013)	0.026 (0.015)	-0.022 (0.022)	0.018 (0.016)
	Macao (China)	0.040 (0.014)	0.035 (0.013)	0.038 (0.015)	0.032 (0.014)	0.034 (0.013)	-0.019 (0.015)	0.026 (0.012)	0.009 (0.014)	0.087 (0.013)	0.008 (0.012)
	Malta	-0.014 (0.016)						-0.015 (0.018)			

Notes: Values that are statistically significant are indicated in bold (see Annex A3). Only countries and economies with data from the parent questionnaire are shown. StatLink [as 14] http://dx.doi.org/10.1787/888933436489



Table II.3.30 Parental involvement in school-related activities

Results based on parents' self-reports

Res	sults based on parents'.	seit-re	ports																		
					F	ercenta	age of s	tudents they pa	whose rticipat	parent ed in tl	s repor ne follo	ted that wing sc	t, durin hool-re	g the pi lated a	revious ctivities	acader	nic yea	r,			
		Discussed my child's behaviour	with a teacher on my own initiative	Discussed my child's behaviour	on the initiative of one of fils/ her teachers	Discussed my child's progress	with a teacher on my own initiative		of his/her teachers	Participated in local school government, e.g. parent	council or school management committee	Volunteered in physical or	extra-curricular activities	Volunteered to support school	activities	Attended a scheduled meeting	or conferences for parents	Talked about how to support learning at home and	homework with my child's teachers	Exchanged ideas on parenting, family support, or the child's	development with my child's teachers
		%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
OECD	Belgium (Fl.)	33.2	(0.9)	36.7	(1.0)	35.2	(0.9)	46.6	(1.0)	5.2	(0.4)	4.2	(0.4)	3.4	(0.3)	78.9	(0.8)	39.6	(8.0)	24.6	(0.7)
OF	Chile	64.4	(0.8)	63.1	(0.9)	65.2	(0.8)	62.4	(0.9)	26.6	(0.9)	18.0	(0.7)	13.3	(0.6)	85.1	(0.6)	73.3	(0.8)	55.4	(1.0)
	France	41.1	(0.8)	28.4	(0.7)	40.6	(0.8)	30.5	(0.9)	7.7	(0.4)	3.0	(0.3)	3.0	(0.3)	67.1	(0.8)	34.8	(0.9)	18.6	(0.7)
	Germany	62.8	(1.1)	37.9	(1.3)	53.5	(1.1)	28.9	(1.2)	17.5	(0.7)	16.7	(0.7)	11.0	(0.7)	90.9	(0.6)	45.0	(1.1)	28.1	(1.0)
	Ireland	30.8	(0.6)	19.2	(0.9)	35.3	(0.8)	28.7	(0.9)	9.4	(0.5)	7.2	(0.4)	6.6	(0.4)	83.0	(0.6)	52.6	(0.9)	25.4	(0.8)
	Italy	55.3	(0.9)	35.8	(0.8)	62.4	(0.8)	39.6	(0.8)	17.1	(0.6)	12.5	(0.5)	6.4	(0.4)	58.7	(0.8)	40.1	(0.7)	31.4	(0.8)
	Korea	45.4	(1.0)	66.0	(0.7)	39.4	(0.8)	59.2	(8.0)	14.6	(0.5)	28.2	(1.0)	14.3	(0.6)	55.1	(1.3)	29.1	(0.9)	40.4	(1.0)
	Luxembourg	54.5	(1.0)	34.8	(0.8)	55.6	(0.9)	40.3	(0.7)	8.8	(0.4)	7.8	(0.5)	6.0	(0.4)	71.9	(0.8)	47.3	(0.9)	26.4	(0.8)
	Mexico	55.1	(0.9)	44.0	(1.0)	56.3	(0.9)	44.8	(1.0)	46.2	(1.0)	18.0	(0.9)	11.7	(0.6)	82.3	(0.7)	63.8	(0.9)	37.1	(8.0)
	Portugal	75.6	(0.7)	51.2	(0.8)	73.0	(0.7)	56.6	(1.0)	11.1	(0.5)	7.6	(0.4)	5.7	(0.3)	71.0	(0.6)	61.4	(0.9)	58.6	(0.8)
	Scotland (UK)	14.3	(1.0)	11.2	(0.9)	25.5	(1.3)	26.4	(1.5)	6.8	(0.6)	6.2	(1.0)	6.0	(0.6)	86.5	(1.0)	68.3	(1.3)	19.4	(1.0)
	Spain	70.1	(0.8)	54.8	(1.2)	74.2	(0.8)	59.1	(1.3)	17.2	(0.7)	10.0	(0.6)	8.0	(0.5)	80.3	(0.7)	65.9	(0.8)	56.0	(0.9)
	OECD average	50.2	(0.3)	40.3	(0.3)	51.4	(0.3)	43.6	(0.3)	15.7	(0.2)	11.6	(0.2)	7.9	(0.1)	75.9	(0.2)	51.8	(0.3)	35.1	(0.2)
-Srs	Croatia	71.7	(0.7)	28.3	(0.8)	64.5	(0.9)	30.1	(0.8)	19.1	(0.6)	13.7	(0.5)	9.1	(0.4)	98.8	(0.2)	51.7	(0.8)	46.6	(0.7)
Partners	Dominican Republic	74.2	(0.9)	65.1	(1.0)	75.4	(1.0)	66.2	(1.0)	57.2	(1.3)	32.9	(1.2)	36.1	(1.2)	93.8	(0.5)	83.5	(0.8)	69.8	(1.1)
Pè	Georgia	78.0	(0.8)	71.3	(1.0)	79.5	(0.7)	77.4	(0.8)	23.6	(0.9)	18.0	(0.8)	12.6	(0.7)	91.3	(0.5)	68.9	(0.8)	51.9	(1.0)
	Hong Kong (China)	52.6	(0.8)	63.9	(0.9)	53.0	(0.7)	64.4	(0.8)	9.1	(0.4)	7.9	(0.5)	8.3	(0.5)	29.0	(1.0)	43.5	(0.7)	40.0	(0.8)
	Macao (China)	35.4	(0.6)	58.0	(0.7)	33.4	(0.7)	54.2	(0.7)	34.6	(0.6)	18.1	(0.6)	17.4	(0.6)	59.5	(0.7)	46.2	(0.7)	43.8	(0.7)
_	Malta	62.9	(0.8)	46.4	(0.7)	53.9	(0.9)	46.7	(0.9)	4.9	(0.4)	7.2	(0.4)	6.9	(0.4)	78.1	(0.7)	56.3	(0.7)	41.1	(8.0)

Note: Only countries and economies with data from the parent questionnaire are shown. StatLink 雪 http://dx.doi.org/10.1787/888933436489



[Part 1/5]

Table II.3.33 Educational leadership

_	uits based on school			·			Percenta	ige of st	udents ir	school	s whose	principa	l reporte	ed that.					
		I use	student the scl		ance res		evelop	act	ivities of	f teache	rs are in	al develo accorda the scho	nce	Ιe	ensure th		ners worl		
			l not cur		than month		st once onth		l not cur		than month	At leas	st once onth		l not cur		than month		st once onth
		%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
ECD	Australia Austria	0.2 5.9	(0.0)	63.1 78.9	(2.1)	36.8 15.2	(2.1)	0.4	(0.3)	30.8 77.5	(2.2)	68.8	(2.2)	0.0 1.6	(0.7)	28.9 68.2	(1.9)	71.1	(1.9)
OF	Belgium	14.0	(2.5)	78.7	(2.9)	7.3	(1.7)	1.7	(0.9)	72.3	(2.7)	26.0	(2.7)	0.1	(0.0)	60.0	(3.2)	39.9	(3.2)
	Canada	0.5	(0.2)	72.6	(2.6)	26.8	(2.5)	1.4	(0.5)	45.4	(2.6)	53.3	(2.7)	0.6	(0.5)	32.3	(2.5)	67.1	(2.6)
	Chile	3.0	(1.5)	57.2	(4.3)	39.8	(4.4)	3.9	(1.7)	44.2	(3.8)	51.9	(3.8)	0.0	С	30.0	(4.0)	70.0	(4.0)
	Czech Republic Denmark	1.8	(0.8)	85.8	(2.3)	12.4	(2.2)	0.0	C	73.6	(2.8)	26.4	(2.8)	0.0	(O, 2)	44.1	(3.2)	55.9 29.8	(3.2)
	Estonia	5.7 1.4	(1.5)	84.7 76.4	(2.4)	9.6	(2.1)	0.0	(0.0)	83.7 68.2	(2.6)	16.3 31.2	(2.6)	0.3	(0.3)	69.9 50.4	(3.5)	49.3	(3.5)
	Finland	6.4	(1.8)	83.0	(3.1)	10.6	(2.6)	1.9	(1.1)	78.5	(3.0)	19.6	(2.8)	1.3	(0.9)	62.2	(4.2)	36.5	(4.2)
	France	3.3	(1.0)	79.4	(2.7)	17.3	(2.6)	5.7	(1.6)	81.5	(2.6)	12.8	(2.1)	1.3	(0.8)	58.0	(3.4)	40.7	(3.4)
	Germany	8.8	(2.2)	76.5	(3.4)	14.7	(2.6)	2.7	(1.4)	71.3	(3.1)	26.0	(2.9)	0.0	C	54.7	(3.5)	45.3	(3.5)
	Greece	2.9	(1.3)	81.9 74.3	(2.8)	15.3 22.4	(2.8)	7.3	(2.0)	73.2 59.2	(3.4)	19.4 39.6	(2.8)	2.3	(1.3)	29.2	(3.4)	68.6 77.7	(3.4)
	Hungary Iceland	0.2	(0.0)	74.3	(0.3)	25.0	(0.3)	1.4	(0.0)	55.9	(0.3)	42.7	(0.3)	2.4	(0.1)	62.0	(0.3)	35.5	(0.3)
	Ireland	1.5	(1.1)	86.5	(3.0)	12.0	(2.8)	2.1	(1.2)	71.0	(3.7)	26.9	(3.7)	0.0	(0.17) C	54.2	(4.6)	45.8	(4.6)
	Israel	1.1	(0.8)	65.7	(4.2)	33.2	(4.1)	2.2	(1.1)	70.1	(3.9)	27.7	(3.8)	0.0	С	45.5	(4.3)	54.5	(4.3)
	Italy	0.5	(0.3)	88.5	(2.5)	11.0	(2.5)	1.3	(0.9)	73.1	(3.4)	25.7	(3.3)	0.0	C	54.6	(3.7)	45.4	(3.7)
	Japan Korea	8.0	(1.7)	89.1	(2.0)	2.9	(1.2)	8.0	(1.7)	86.3	(2.3)	5.7	(1.5)	4.0	(1.2)	85.2	(2.5)	10.7	(2.2)
	Korea Latvia	0.6	(0.6)	85.6 74.4	(3.0)	13.8 25.6	(2.9)	0.6	(0.6)	62.8 70.9	(4.2)	36.6 28.4	(4.1)	4.0 0.0	(1.6) C	61.4 45.0	(4.2)	34.5 55.0	(4.1)
	Luxembourg	5.0	(0.0)	82.2	(0.1)	12.8	(0.1)	8.6	(0.1)	78.9	(0.1)	12.5	(0.1)	5.0	(0.0)	59.8	(0.1)	35.2	(0.1)
	Mexico	0.4	(0.4)	49.1	(3.4)	50.5	(3.4)	3.1	(1.5)	53.4	(3.8)	43.5	(3.8)	0.4	(0.4)	31.9	(3.3)	67.7	(3.3)
	Netherlands	0.7	(0.6)	69.3	(3.6)	30.0	(3.6)	0.0	С	58.1	(4.3)	41.9	(4.3)	2.2	(1.6)	35.5	(4.6)	62.3	(4.6)
	New Zealand	0.0	(O 4)	61.2	(3.7)	38.8	(3.7)	0.0	С	32.5	(3.7)	67.5	(3.7)	0.0	С	42.7	(4.4)	57.3	(4.4)
	Norway Poland	0.5	(0.4) C	78.2 91.0	(3.0)	9.0	(3.0)	0.0	C C	57.5 93.0	(3.8)	42.5 7.0	(3.8)	0.0	C C	51.3 65.9	(4.0)	48.7 34.1	(4.0)
	Portugal	0.3	(0.3)	70.0	(3.2)	29.7	(3.2)	2.5	(1.1)	77.6	(3.0)	19.8	(2.8)	0.5	(0.4)	57.1	(3.5)	42.3	(3.5)
	Slovak Republic	1.3	(0.7)	62.9	(3.1)	35.8	(3.2)	0.0	С	57.5	(3.2)	42.5	(3.2)	0.0	С	16.4	(2.2)	83.6	(2.2)
	Slovenia	2.2	(0.1)	69.4	(0.5)	28.4	(0.5)	0.0	С	43.0	(0.5)	57.0	(0.5)	0.0	С	24.7	(0.3)	75.3	(0.3)
	Spain	1.5	(0.9)	94.0	(1.8)	4.5	(1.7)	5.6	(1.6)	78.5	(3.0)	16.0	(2.6)	1.3	(1.0)	53.5	(3.6)	45.2	(3.5)
	Sweden Switzerland	0.3 25.3	(0.3)	70.6	(2.8)	29.1 8.6	(2.8)	7.9	(2.2)	77.5 78.4	(2.9)	22.5 13.7	(2.9)	0.0 3.6	(1.4)	47.1 75.3	(3.5)	52.9 21.1	(3.5)
	Turkey	1.9	(1.1)	65.5	(3.8)	32.6	(3.7)	1.1	(0.8)	68.8	(3.9)	30.1	(3.7)	0.0	(1. 1)	23.3	(3.4)	76.7	(3.4)
	United Kingdom	1.0	(0.9)	39.8	(3.3)	59.2	(3.3)	0.0	(0.0)	39.9	(3.8)	60.1	(3.8)	0.0	(0.0)	15.0	(2.7)	84.9	(2.7)
	United States	1.1	(0.7)	42.4	(3.4)	56.5	(3.4)	0.3	(0.3)	25.5	(3.4)	74.2	(3.5)	0.3	(0.3)	9.3	(2.3)	90.4	(2.3)
	OECD average	3.2	(0.2)	73.4	(0.5)	23.4	(0.5)	2.1	(0.2)	64.8	(0.5)	33.0	(0.5)	0.9	(0.1)	46.5	(0.6)	52.6	(0.6)
rs	Albania	0.0	С	48.2	(3.7)	51.8	(3.7)	0.0	С	26.8	(3.2)	73.2	(3.2)	0.0	С	13.5	(2.5)	86.5	(2.5)
Partners	Algeria	2.1	(1.1)	79.5	(3.2)	18.4	(3.1)	8.8	(2.3)	65.4	(4.3)	25.8	(3.9)	4.8	(1.8)	39.4	(4.6)	55.8	(4.6)
Pai	Brazil B-S-J-G (China)	6.3	(0.9)	73.5	(2.5)	30.8	(2.5)	0.9	(0.7)	19.7 51.4	(2.1)	79.4 47.8	(2.2)	0.6 1.4	(0.6)	15.3 41.3	(1.9)	84.2 57.3	(2.0)
	Bulgaria	0.6	(0.4)	83.1	(3.3)	16.3	(3.2)	0.4	(0.4)	66.1	(4.4)	33.5	(4.3)	0.0	(0.0) C	19.4	(3.0)	80.6	(3.0)
	CABA (Argentina)	5.7	(3.9)	69.8	(6.5)	24.5	(6.1)	6.9	(3.7)	59.7	(7.5)	33.4	(6.6)	0.0	C	42.5	(7.8)	57.5	(7.8)
	Colombia	1.4	(0.9)	79.5	(2.8)	19.1	(2.7)	8.7	(2.3)	53.5	(3.8)	37.8	(3.6)	0.3	(0.3)	55.3	(3.5)	44.4	(3.5)
	Costa Rica	2.1	(1.1)	72.6	(3.2)	25.2	(2.9)	4.6	(1.5)	59.9	(3.0)	35.6	(3.0)	0.7	(0.6)	38.8	(3.5)	60.5	(3.5)
	Croatia Cyprus*	0.8	(0.6)	75.8 68.7	(3.4)	23.5	(3.3)	0.6 4.2	(0.6)	64.3	(4.2)	35.1 35.5	(4.1)	0.0 1.7	(0.1)	51.3 30.6	(4.3)	48.7 67.7	(4.3)
	Dominican Republic	0.3	(0.1)	56.4	(4.4)	43.3	(4.5)	0.9	(0.7)	25.3	(3.8)	73.9	(3.9)	0.0	(U.1)	15.4	(3.0)	84.6	(3.0)
	FYROM	0.0	C	55.8	(0.2)	44.2	(0.2)	0.0	C	56.4	(0.2)	43.6	(0.2)	0.8	(0.0)	30.9	(0.1)	68.3	(0.1)
	Georgia	0.5	(0.5)	68.0	(2.7)	31.4	(2.7)	1.7	(0.9)	57.2	(3.3)	41.1	(3.2)	0.0	С	20.0	(2.8)	80.0	(2.8)
	Hong Kong (China)	1.3	(1.0)	86.5	(3.0)	12.1	(2.8)	0.0	(1.2)	84.8	(3.4)	15.2	(3.4)	0.0	(1 O)	67.9	(4.2)	32.1	(4.2)
	Indonesia Jordan	3.5	(1.4)	71.2 56.6	(3.2)	25.3 42.1	(2.9)	2.6	(1.3)	56.1 48.9	(3.8)	41.3	(3.6)	1.4	(1.0)	30.1 17.9	(3.7)	68.6 81.0	(3.8)
	Kosovo	1.9	(0.8)	70.2	(1.0)	27.9	(1.0)	0.6	(0.7)	37.4	(1.3)	62.0	(1.3)	0.0	(U.8)	35.9	(1.3)	64.1	(1.3)
	Lebanon	4.3	(1.1)	56.8	(3.7)	38.9	(3.6)	3.7	(1.4)	49.9	(2.9)	46.4	(3.0)	0.6	(0.4)	19.5	(2.7)	79.9	(2.8)
	Lithuania	0.0	С	90.6	(2.4)	9.4	(2.4)	0.0	С	64.8	(2.9)	35.2	(2.9)	0.0	С	39.4	(3.0)	60.6	(3.0)
	Macao (China)	0.7	(0.0)	86.3	(0.1)	12.9	(0.0)	0.2	(0.0)	81.9	(0.0)	17.9	(0.0)	0.0	С	65.7	(0.0)	34.3	(0.0)
	Malta Moldova	5.9	(0.1)	82.4 69.3	(0.1)	11.8 29.4	(0.1)	1.0	(0.0)	85.3 57.2	(0.1)	14.5 41.8	(0.1)	0.0	С	41.8 11.0	(0.1)	58.2 89.0	(0.1)
	Montenegro	0.0	(U.8)	87.0	(0.4)	13.0	(0.4)	0.0	(U.6)	62.2	(0.3)	37.8	(0.3)	0.0	C C	46.1	(0.5)	53.9	(0.5)
	Peru	6.8	(1.5)	75.6	(2.7)	17.5	(2.5)	4.2	(1.3)	53.1	(3.1)	42.7	(2.9)	1.9	(0.9)	40.6	(2.9)	57.5	(2.8)
	Qatar	2.2	(0.0)	58.5	(0.1)	39.3	(0.1)	0.0	С	39.0	(0.1)	61.0	(0.1)	0.0	С	16.3	(0.1)	83.7	(0.1)
	Romania	0.9	(0.7)	71.1	(3.7)	28.1	(3.6)	2.0	(1.0)	68.2	(3.8)	29.8	(3.9)	0.7	(0.6)	11.0	(2.3)	88.4	(2.4)
	Russia Singapore	0.7	(0.7) C	68.2 83.7	(3.9)	31.2 16.3	(3.9)	0.0	C C	50.6 49.4	(3.8)	49.4 50.6	(3.8)	0.0	C C	29.6 39.2	(3.5)	70.4 60.8	(3.5)
	Chinese Taipei	3.2	(1.3)	62.4	(3.2)	34.5	(3.4)	1.4	(0.7)	50.8	(3.6)	47.8	(3.6)	0.5	(0.5)	47.0	(3.7)	52.5	(3.7)
	Thailand	0.6	(0.6)	67.2	(3.8)	32.1	(3.7)	1.3	(0.9)	55.9	(4.5)	42.8	(4.4)	0.6	(0.6)	43.3	(3.8)	56.0	(3.7)
	Trinidad and Tobago	1.1	(0.0)	78.3	(0.2)	20.5	(0.2)	3.1	(0.1)	82.2	(0.2)	14.7	(0.2)	0.0	С	29.3	(0.3)	70.7	(0.3)
	Tunisia	14.5	(3.3)	82.6	(3.8)	3.0	(1.7)	39.9	(4.1)	47.9	(4.1)	12.1	(2.7)	6.6	(2.2)	53.2	(4.5)	40.2	(4.4)
	United Arab Emirates Uruguav	0.8	(0.8)	66.0	(2.3)	33.2	(2.1)	0.0 5.6	(0.0)	36.9	(2.4)	63.1 47.4	(2.4)	0.0	(0.4)	23.1	(2.1)	76.9 70.4	(2.1)
	Viet Nam	0.0	(0.7) C	76.5	(2.8)	28.8	(2.6)	0.0	(1.5) c	47.0 54.9	(3.1)	45.1	(3.1) (4.5)	0.4	(U.4) C	23.8	(2.6)	76.2	(2.6)
-	Argentina**	2.6	(1.2)	72.7	(3.4)	24.7	(3.2)	3.8	(1.4)	61.5	(3.4)	34.7	(3.4)	0.0	C	36.1	(3.3)	63.9	(3.3)
	Kazakhstan**	0.5	(0.5)	42.0	(3.4)	57.5	(3.0)	0.0	(1.4) C	28.5	(3.1)	71.5	(3.1)	0.0	C	13.5	(2.2)	86.5	(2.2)
	Malaysia**	0.0	C	73.6	(3.8)	26.4	(3.8)	0.0	С	46.1	(4.1)	53.9	(4.1)	0.0	С	22.8	(3.5)	77.2	(3.5)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** Link** http://dx.doi.org/10.1787/888933436489



[Part 2/5]

Table II.3.33 Educational leadership

Kes	sults based on school	princij	oais' se	ит-герс	orts		Percenta	ige of stu	udents ir	schools	s whose	principa	l report	ed that					
		I pron	note tead		actices b al resea		recent	I prais		ers whos		nts are a	ctively	in h	is/her cl	lassroom	er has pr n, I take ss matter	the initia	ative
			l not cur		than month		st once onth		not cur	Less	than month	At leas	st once onth		l not cur		than month		st once onth
_	A 4 1	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
OECD	Australia Austria	0.0 5.1	(0.1)	24.3 57.6	(1.8)	75.6 37.3	(1.8)	0.2 3.3	(0.2)	12.6 31.7	(1.4)	87.2 65.0	(1.4)	1.1 4.9	(0.4)	19.4 36.1	(1.6)	79.6 59.0	(1.6)
10	Belgium	14.5	(2.4)	61.3	(3.5)	24.2	(3.3)	4.4	(1.6)	44.9	(3.0)	50.6	(2.9)	0.7	(0.6)	27.2	(2.8)	72.1	(2.8)
	Canada	2.7	(0.8)	32.9	(2.2)	64.4	(2.3)	0.1	(0.1)	14.6	(1.8)	85.3	(1.8)	0.5	(0.4)	11.9	(1.8)	87.6	(1.8)
	Chile	16.0	(3.3)	48.5	(4.3)	35.5	(3.8)	1.6	(1.0)	42.5	(4.0)	55.9	(4.0)	5.2	(1.8)	27.1	(3.8)	67.7	(3.8)
	Czech Republic Denmark	1.3	(0.6)	51.3	(2.7)	47.4 36.9	(2.7)	2.2 5.7	(1.0)	29.8 35.8	(2.9)	67.9 58.5	(3.0)	0.7	(0.5)	29.4	(3.1)	69.9 73.5	(3.2)
	Estonia	4.3	(1.1)	70.5	(2.2)	25.2	(2.2)	0.0	(1.0) C	32.3	(2.5)	67.7	(2.5)	0.9	(0.7)	27.2	(2.3)	71.9	(2.4)
	Finland	1.9	(1.1)	63.8	(3.4)	34.2	(3.3)	2.6	(1.3)	49.1	(4.0)	48.3	(4.3)	0.6	(0.6)	46.8	(4.1)	52.6	(4.1)
	France	15.6	(2.4)	66.9	(3.2)	17.5	(2.3)	6.7	(1.5)	43.6	(3.3)	49.7	(3.2)	1.4	(0.8)	32.0	(3.2)	66.6	(3.1)
	Germany	2.9	(1.1)	67.1	(3.3)	30.1	(3.3)	2.2	(1.1)	28.7	(3.2)	69.0	(3.5)	0.9	(0.6)	38.9	(4.0)	60.2	(4.1)
	Greece Hungary	2.5	(1.2)	44.8 51.8	(3.8)	52.7 42.9	(3.8)	1.3	(0.8)	37.1 27.7	(3.5)	61.7 71.3	(3.5)	0.9	(0.9)	32.3 26.8	(3.4)	66.8 72.6	(3.4)
	Iceland	2.3	(0.1)	65.2	(0.2)	32.5	(0.2)	0.9	(0.1)	29.9	(0.2)	69.2	(0.2)	0.0	(0.0) C	45.4	(0.3)	54.6	(0.3)
	Ireland	2.0	(1.2)	64.2	(4.4)	33.9	(4.3)	0.7	(0.7)	28.3	(4.0)	71.1	(3.9)	1.4	(1.0)	43.9	(4.1)	54.7	(4.1)
	Israel	5.6	(1.7)	72.0	(3.3)	22.5	(3.2)	1.7	(1.0)	30.3	(3.8)	68.0	(4.0)	0.5	(0.5)	19.9	(3.1)	79.6	(3.2)
	Italy	2.7	(1.1)	71.8	(3.7)	25.4	(3.8)	3.7	(1.4)	37.5	(3.7)	58.7	(3.7)	0.5	(0.4)	21.3	(2.8)	78.2	(2.7)
	Japan Korea	10.2	(2.2)	77.5	(3.0)	12.3 36.2	(2.5)	8.9 2.5	(1.9)	85.3 41.7	(2.5)	5.8 55.8	(1.6)	6.1 0.7	(1.8)	61.0 35.6	(3.8)	32.9 63.8	(3.6)
	Latvia	0.9	(0.6)	46.2	(2.9)	53.0	(2.9)	0.4	(0.4)	26.1	(2.4)	73.5	(2.4)	2.9	(1.0)	25.8	(2.2)	71.3	(2.2)
	Luxembourg	17.8	(0.1)	60.4	(0.1)	21.8	(0.1)	2.5	(0.0)	56.3	(0.1)	41.2	(0.1)	2.2	(0.0)	8.7	(0.1)	89.1	(0.1)
	Mexico	7.0	(2.1)	56.1	(3.6)	36.9	(3.3)	4.6	(1.7)	49.7	(3.0)	45.7	(2.7)	0.3	(0.2)	28.8	(3.0)	70.9	(3.0)
	Netherlands	9.1	(2.7)	62.0	(4.8)	28.9	(4.4)	5.1	(2.0)	37.1	(4.4)	57.8	(4.5)	1.0	(1.0)	41.6	(4.4)	57.5	(4.4)
	New Zealand Norway	0.6	(0.9)	29.9 39.1	(3.9)	69.1	(4.1)	0.7	(0.6)	23.1 33.8	(4.0)	76.3 65.0	(4.0)	1.6 0.5	(1.0)	38.4 35.3	(4.3)	59.9 64.3	(4.3)
	Poland	8.3	(2.3)	76.3	(3.6)	15.4	(3.0)	0.6	(0.6)	47.3	(4.0)	52.0	(4.0)	1.5	(1.0)	34.2	(3.4)	64.3	(3.5)
	Portugal	10.6	(2.3)	56.9	(3.6)	32.5	(3.8)	2.5	(1.2)	36.7	(3.7)	60.8	(3.7)	0.5	(0.4)	35.5	(3.5)	64.1	(3.5)
	Slovak Republic	0.9	(0.7)	34.1	(3.4)	65.0	(3.5)	1.9	(1.0)	42.4	(3.4)	55.7	(3.3)	0.0	С	41.5	(3.2)	58.5	(3.2)
	Slovenia	0.0	C (2, 5)	20.5	(0.3)	79.5	(0.3)	0.0	C (1.5)	22.1	(0.3)	77.9	(0.3)	0.8	(0.0)	38.2	(0.3)	61.0	(0.3)
	Spain Sweden	15.4	(2.5)	67.2 47.2	(3.4)	17.3 51.9	(2.9)	3.0	(1.5)	49.0 32.3	(3.5)	48.0 67.1	(3.4)	3.7 0.6	(1.1)	32.5 34.7	(3.4)	63.8	(3.5)
	Switzerland	16.8	(2.8)	69.9	(4.0)	13.4	(3.1)	7.3	(2.0)	49.5	(4.6)	43.2	(4.5)	1.1	(0.8)	44.5	(4.2)	54.4	(4.2)
	Turkey	0.6	(0.7)	41.5	(3.7)	57.9	(3.7)	0.0	C	27.9	(3.9)	72.1	(3.9)	0.0	C	17.3	(3.4)	82.7	(3.4)
	United Kingdom	0.1	(0.1)	35.3	(3.5)	64.6	(3.5)	0.1	(0.1)	7.4	(1.6)	92.5	(1.6)	1.7	(0.8)	12.7	(2.1)	85.6	(2.3)
	United States	1.5	(0.9)	14.4	(2.7)	84.2	(2.8)	0.3	(0.3)	4.4	(1.7)	95.3	(1.7)	2.1	(1.1)	6.0	(1.8)	91.9	(2.2)
	OECD average	5.5	(0.3)	53.4	(0.6)	41.1	(0.5)	2.3	(0.2)	35.1	(0.5)	62.6	(0.5)	1.4	(0.1)	31.0	(0.5)	67.6	(0.5)
SLS	Albania	1.1	(0.8)	49.1	(3.7)	49.8	(3.7)	0.4	(0.4)	29.7	(3.3)	69.9	(3.3)	0.0	С	7.5	(1.8)	92.5	(1.8)
Partners	Algeria	9.1	(2.5)	43.5	(4.0)	47.4	(3.8)	4.1	(1.7)	41.1	(3.9)	54.8	(4.2)	2.0	(1.5)	30.3	(4.0)	67.7	(4.2)
Pa	Brazil B-S-J-G (China)	5.2	(1.1)	40.8 58.0	(2.4)	54.0 39.7	(2.7)	0.0	(0.8)	12.3 34.1	(1.7)	86.1 65.9	(1.8)	0.2	(0.1)	19.8	(1.3)	93.7 80.2	(1.3)
	Bulgaria	1.2	(0.7)	49.3	(3.7)	49.5	(3.7)	0.2	(0.2)	26.4	(3.4)	73.5	(3.4)	0.3	(0.3)	16.4	(2.8)	83.3	(2.9)
	CABA (Argentina)	7.4	(3.9)	56.7	(7.7)	35.9	(6.7)	3.0	(2.3)	29.9	(7.6)	67.0	(7.7)	0.0	С	47.7	(7.9)	52.3	(7.9)
	Colombia	12.9	(2.5)	59.5	(3.3)	27.5	(3.1)	4.0	(1.4)	58.1	(3.5)	37.9	(3.6)	6.0	(1.9)	37.4	(3.6)	56.6	(3.4)
	Costa Rica	12.9	(2.6)	51.9	(3.5)	35.2	(3.3)	3.4	(1.2)	50.3	(3.7)	46.3	(3.6)	3.1	(1.3)	29.3	(3.5)	67.6	(3.8)
	Croatia Cyprus*	1.0	(0.8)	65.7 47.7	(3.8) (0.1)	33.3 47.4	(3.7)	1.3	(0.9) C	46.5 25.9	(4.1)	52.2 74.1	(4.0)	0.8	(0.8) C	29.2 35.4	(3.3)	70.0 64.6	(3.4)
	Dominican Republic	3.8	(1.5)	40.1	(4.1)	56.1	(4.2)	1.2	(0.9)	19.8	(3.3)	78.9	(3.3)	9.0	(2.7)	14.9	(2.9)	76.1	(3.2)
	FYROM	3.7	(0.1)	51.0	(0.2)	45.3	(0.2)	0.0	С	37.6	(0.2)	62.4	(0.2)	0.0	С	11.0	(0.1)	89.0	(0.1)
	Georgia	2.9	(1.1)	60.7	(3.4)	36.4	(3.4)	0.0	С	36.8	(3.2)	63.2	(3.2)	0.3	(0.2)	13.5	(2.2)	86.3	(2.2)
	Hong Kong (China) Indonesia	5.4 3.6	(2.0)	81.5 55.5	(3.8)	13.2	(3.3)	1.6	(1.1)	52.4 36.5	(4.1)	46.0 60.4	(3.9)	0.0	(1.2)	60.3	(4.6)	39.7 72.8	(4.6)
	Jordan	3.9	(1.3)	36.4	(3.2)	59.7	(3.4)	0.8	(0.6)	9.1	(2.0)	90.1	(2.1)	0.9	(0.7)	7.4	(2.0)	91.7	(2.1)
	Kosovo	2.2	(0.2)	59.6	(1.2)	38.2	(1.2)	0.9	(0.2)	62.0	(1.5)	37.1	(1.5)	0.0	C	17.6	(1.1)	82.4	(1.1)
	Lebanon	3.9	(1.2)	40.9	(3.4)	55.2	(3.4)	1.3	(0.7)	31.4	(3.6)	67.4	(3.6)	1.5	(0.8)	13.6	(2.5)	84.9	(2.5)
	Lithuania	0.8	(0.1)	62.5	(3.0)	36.7	(3.0)	0.0	С	30.8	(3.0)	69.2	(3.0)	0.1	(0.0)	28.5	(3.0)	71.4	(3.0)
	Macao (China) Malta	3.1	(0.0)	80.3 57.3	(0.0)	16.5 39.0	(0.0)	0.0	C C	56.9 10.5	(0.1)	43.1 89.5	(0.1)	0.6	(0.0) C	45.0 7.4	(0.1)	54.5 92.6	(0.1)
	Moldova	0.3	(0.3)	31.6	(3.1)	68.1	(3.1)	0.0	(0.1)	41.1	(3.5)	58.7	(3.5)	2.9	(1.0)	15.3	(2.8)	81.8	(2.9)
	Montenegro	0.2	(0.1)	62.4	(0.5)	37.5	(0.5)	0.0	C	55.4	(0.4)	44.6	(0.4)	0.0	С	13.8	(0.4)	86.2	(0.4)
	Peru	26.2	(2.7)	53.7	(3.2)	20.1	(2.3)	2.2	(0.9)	52.1	(3.4)	45.6	(3.3)	9.2	(1.9)	37.7	(3.3)	53.1	(3.2)
	Qatar	0.0	(1.0)	38.9	(0.1)	61.1	(0.1)	2.2	(0.0)	10.7	(0.1)	87.1	(0.1)	0.0	(1.E)	13.8	(0.1)	86.2	(0.1)
	Romania Russia	1.6	(1.0)	29.2 58.9	(3.2)	69.2 37.0	(3.2)	0.0	C C	16.8 19.7	(3.0)	83.2 80.3	(3.0)	4.1 0.9	(1.5)	21.2	(3.4)	74.7 87.7	(3.5)
	Singapore	0.4	(0.0)	55.9	(1.0)	43.6	(1.0)	1.2	(0.0)	26.6	(0.7)	72.2	(0.7)	0.0	(0.3) C	19.8	(0.6)	80.2	(0.6)
	Chinese Taipei	2.2	(1.1)	63.9	(3.0)	33.9	(2.9)	0.5	(0.5)	36.7	(3.2)	62.8	(3.2)	0.5	(0.5)	34.6	(3.3)	64.9	(3.3)
	Thailand	0.9	(0.7)	65.3	(4.1)	33.8	(4.2)	0.0	C	36.5	(3.9)	63.5	(3.9)	2.4	(1.4)	27.0	(3.9)	70.6	(4.0)
	Trinidad and Tobago Tunisia	5.3	(0.1)	45.5 44.1	(0.3)	49.1 25.8	(0.3)	0.9 15.7	(0.0)	31.1 56.2	(0.3)	67.9 28.1	(0.3)	1.7	(0.1)	23.5	(0.2)	74.8 75.0	(0.2)
	United Arab Emirates	2.7	(1.0)	39.5	(2.6)	57.8	(2.5)	0.0	(0.0)	21.0	(1.9)	79.0	(1.9)	2.9	(0.5)	20.1	(1.3)	77.0	(1.4)
	Uruguay	9.0	(1.9)	44.9	(2.8)	46.1	(2.9)	2.3	(1.1)	41.5	(3.2)	56.2	(3.3)	4.3	(1.4)	26.3	(2.3)	69.5	(2.6)
	Viet Nam	1.6	(1.6)	45.6	(4.0)	52.9	(4.2)	0.0	c	42.4	(3.8)	57.6	(3.8)	0.6	(0.6)	27.6	(3.3)	71.8	(3.4)
	Argentina**	6.3	(1.8)	65.2	(3.8)	28.4	(3.6)	2.3	(1.0)	42.1	(3.9)	55.6	(3.8)	0.2	(0.1)	27.0	(3.3)	72.8	(3.3)
	Kazakhstan**	0.2	(0.2)	22.8	(3.1)	76.9	(3.1)	0.0	C	70.8	(3.3)	29.2	(3.3)	5.5	(1.7)	15.8	(2.5)	78.6	(2.9)
	Malaysia**	0.7	(0.6)	44.4	(3.8)	54.9	(3.8)	0.5	(0.5)	22.6	(3.6)	76.9	(3.6)	0.6	(0.6)	28.3	(4.0)	71.1	(4.1)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink *** http://dx.doi.org/10.1787/888933436489



[Part 3/5]

Table II.3.33 Educational leadership

							Percenta	ige of stu	udents ii	schools	whose	principa	l report	ed that.					
			v teache pils' dev	elopmei				I p	ay atten		lisruptiv srooms	e behavi	our		provide articipate				
			l not cur		than month		st once onth		not cur		than month		st once onth		l not cur		than month		st once onth
	!!	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
ECD	Australia Austria	0.9	(0.4)	21.0	(1.7)	78.1 50.3	(1.7)	2.3	(0.5)	9.5 30.4	(1.2)	88.2 66.8	(1.3)	0.4 1.0	(0.3)	19.3 35.5	(1.5)	80.3 63.5	(1.5)
OE	Belgium	2.3	(1.1)	48.1	(3.3)	49.6	(3.5)	0.0	(1.0) C	15.4	(2.2)	84.6	(2.2)	2.9	(1.2)	31.8	(3.5)	65.3	(3.6)
	Canada	1.4	(0.6)	26.2	(2.5)	72.3	(2.7)	0.7	(0.4)	5.0	(1.2)	94.3	(1.3)	0.0	С	14.4	(2.0)	85.6	(2.0)
	Chile	1.1	(0.7)	28.7	(3.9)	70.2	(3.9)	2.0	(1.1)	11.5	(2.6)	86.5 68.6	(2.9)	1.9 0.7	(1.1)	19.2	(3.4)	78.8 67.4	(3.3)
	Czech Republic Denmark	1.3 5.9	(0.5)	53.8 50.4	(3.1)	44.9	(3.0)	1.3	(0.8)	28.9 19.0	(2.8)	79.7	(2.8)	0.0	(U.5) C	31.9 16.9	(2.6)	83.1	(2.7)
	Estonia	0.8	(0.6)	48.6	(2.7)	50.7	(2.8)	1.8	(1.0)	27.9	(2.6)	70.2	(2.7)	0.0	С	29.4	(2.8)	70.6	(2.8)
	Finland	2.7	(1.4)	41.9	(3.4)	55.4	(3.6)	0.0	С	29.0	(3.3)	71.0	(3.3)	0.0	С	6.3	(1.9)	93.7	(1.9)
	France	8.0 0.5	(1.6)	43.2	(3.6)	48.8	(3.5)	1.3	(0.8)	16.1	(2.5)	82.5	(2.5)	2.7	(1.1)	52.7	(3.9)	44.7	(3.6)
	Germany Greece	0.0	(0.5) C	46.7	(3.4)	52.8 53.8	(3.5)	0.0	(0.5)	19.7 21.6	(3.4)	80.3 77.9	(3.4)	0.0	C C	21.9 15.5	(3.1)	78.1 84.5	(3.1)
	Hungary	4.4	(1.5)	48.8	(3.4)	46.8	(3.4)	1.6	(0.9)	22.4	(2.7)	76.0	(2.5)	0.6	(0.6)	34.0	(3.3)	65.4	(3.2)
	Iceland	3.2	(0.1)	33.9	(0.3)	63.0	(0.3)	0.0	С	8.6	(0.2)	91.4	(0.2)	0.0	С	12.2	(0.2)	87.8	(0.2)
	Ireland	4.4	(1.8)	51.0	(4.2)	44.5	(4.0)	1.4	(1.0)	10.9	(2.9)	87.7	(3.0)	0.0	С	24.5	(3.5)	75.5	(3.5)
	Israel	0.0	(O, O)	40.6 38.2	(3.6)	59.4 61.7	(3.6)	0.5	(0.5)	7.7	(2.0)	91.8 86.9	(2.1)	0.0	(O, O)	34.1 45.2	(3.8)	65.9 53.3	(3.8)
	Italy Japan	11.8	(0.0)	75.8	(3.1)	12.4	(2.3)	0.5	(0.5)	27.2	(3.3)	72.3	(3.3)	1.5 5.4	(0.9)	24.6	(2.7)	70.0	(3.6)
	Korea	4.3	(1.6)	41.1	(4.1)	54.6	(4.3)	0.6	(0.6)	14.7	(2.8)	84.7	(2.9)	0.5	(0.5)	18.1	(3.2)	81.4	(3.3)
	Latvia	2.2	(8.0)	37.8	(2.8)	60.0	(2.9)	0.7	(0.5)	17.8	(2.1)	81.5	(2.2)	0.0	С	38.9	(2.6)	61.1	(2.6)
	Luxembourg	6.8	(0.1)	46.7	(0.1)	46.5	(0.1)	0.0	С	10.0	(0.1)	90.0	(0.1)	0.0	C (0.5)	60.6	(0.1)	39.4	(0.1)
	Mexico Netherlands	1.9	(0.9)	36.1 53.4	(3.5)	62.1 43.7	(3.5)	0.0	(0.9)	12.5 38.6	(2.3)	87.5 60.6	(2.3)	0.5 2.0	(0.5)	27.7 43.2	(2.6)	71.9 54.7	(2.6)
	New Zealand	0.7	(0.6)	36.3	(4.4)	62.9	(4.4)	0.4	(0.4)	13.9	(2.4)	85.7	(2.5)	0.5	(0.5)	22.5	(3.5)	76.9	(3.5)
	Norway	3.0	(1.3)	40.8	(3.8)	56.3	(3.9)	1.1	(0.8)	20.3	(3.4)	78.7	(3.5)	0.6	(0.6)	14.2	(2.6)	85.3	(2.7)
	Poland	0.0	С	57.9	(4.0)	42.1	(4.0)	2.6	(1.3)	34.8	(3.5)	62.6	(3.7)	1.3	(0.9)	52.4	(4.1)	46.3	(4.2)
	Portugal	1.4	(1.0)	40.5	(3.8)	58.2	(3.9)	0.0	С	4.2	(1.3)	95.8	(1.3)	0.0	C (0.1)	19.4	(3.5)	80.6	(3.5)
	Slovak Republic Slovenia	0.7	(0.7) C	34.9	(3.7) (0.5)	64.5 80.9	(3.6) (0.5)	0.0	C C	20.8	(2.6)	79.2 81.9	(2.6)	0.1	(0.1) c	34.1	(3.0)	65.7 79.4	(3.0)
	Spain	3.8	(1.5)	53.4	(3.5)	42.8	(3.4)	0.5	(0.8)	8.0	(2.0)	91.5	(2.1)	0.6	(0.5)	26.1	(3.1)	73.3	(3.1)
	Sweden	1.9	(1.0)	38.5	(3.5)	59.5	(3.5)	0.6	(0.5)	24.0	(3.0)	75.4	(3.1)	0.5	(0.5)	3.9	(1.3)	95.5	(1.4)
	Switzerland	8.3	(2.4)	53.2	(4.2)	38.5	(4.5)	0.7	(0.7)	35.4	(4.0)	63.9	(4.1)	0.6	(0.6)	44.2	(3.5)	55.2	(3.5)
	Turkey	0.4	(0.4)	20.7	(2.8)	78.9	(2.9)	0.0	C	6.3	(2.3)	93.7	(2.3)	0.0	С	13.9	(3.1)	86.1	(3.1)
	United Kingdom United States	0.2	(0.1)	22.7	(2.9)	77.2 87.4	(2.9)	0.3	(0.7)	6.4	(1.7)	92.2 96.7	(1.8)	0.0	(0.5)	32.5 6.7	(3.4)	67.5 92.6	(3.4)
			(0.2)	41.0			(0.6)		(0.1)		(0.4)		(0.4)				(0.5)	72.2	
	OECD average	2.6	(0.2)	41.0	(0.6)	56.4	(0.6)	0.9	(0.1)	17.5	(0.4)	81.7	(0.4)	0.7	(0.1)	27.1	(0.5)	12.2	(0.5)
SLS	Albania	0.0	С	22.3	(3.3)	77.7	(3.3)	0.0	С	5.5	(2.1)	94.5	(2.1)	0.4	(0.4)	27.8	(3.7)	71.8	(3.7)
Partners	Algeria Brazil	0.3	(0.7)	30.7 16.5	(4.2)	68.2 83.2	(4.3)	0.6	(0.6)	17.4 3.5	(3.2)	82.0 96.4	(3.1)	3.0	(1.4)	41.4 20.7	(4.2)	55.6 78.1	(4.2)
Ра	B-S-J-G (China)	1.1	(0.2)	41.5	(4.4)	57.4	(4.3)	0.6	(0.1)	8.8	(2.1)	90.6	(2.2)	0.4	(0.3)	75.8	(3.3)	23.8	(3.2)
	Bulgaria	0.0	C	27.0	(3.6)	73.0	(3.6)	0.0	C	3.8	(1.5)	96.2	(1.5)	0.0	C	28.4	(3.7)	71.6	(3.7)
	CABA (Argentina)	0.0	С	38.5	(7.5)	61.5	(7.5)	0.0	С	13.7	(5.6)	86.3	(5.6)	6.6	(3.9)	36.8	(7.6)	56.6	(8.0)
	Colombia	1.2	(0.8)	34.0	(3.5)	64.8	(3.4)	0.0	C	21.4	(3.0)	78.6	(3.0)	0.9	(0.9)	21.4	(3.0)	77.7	(3.1)
	Costa Rica Croatia	2.7	(1.1)	28.7 39.7	(3.6)	68.5	(3.8)	0.4	(0.0) C	20.9 19.5	(3.0)	78.7 80.5	(3.0)	3.2 0.0	(1.3) c	22.7	(3.3)	74.2 76.0	(3.5)
	Cyprus*	0.0	C C	33.2	(0.1)	66.8	(0.1)	0.0	С	20.9	(0.1)	79.1	(0.1)	2.0	(0.0)	20.6	(0.1)	77.4	(0.1)
	Dominican Republic	1.0	(1.0)	16.6	(2.9)	82.4	(2.8)	0.7	(0.5)	3.7	(1.4)	95.5	(1.5)	0.7	(0.7)	9.9	(2.4)	89.4	(2.3)
	FYROM	2.0	(0.0)	27.6	(0.2)	70.4	(0.2)	1.8	(0.0)	8.4	(0.1)	89.8	(0.1)	0.0	C	32.2	(0.2)	67.8	(0.2)
	Georgia	0.0	С	17.9	(2.3)	82.1	(2.3)	0.1	(0.1)	3.2	(1.3)	96.7	(1.3)	0.5	(0.5)	19.7 36.9	(2.8)	79.8	(2.9)
	Hong Kong (China) Indonesia	1.4	(1.0)	28.4	(4.3)	33.1	(4.3)	1.4	(1.4)	32.7 10.0	(4.8)	64.9 88.6	(4.9)	0.0	(1.0)	28.3	(4.1)	63.1	(4.1)
	Jordan	0.0	(1.0) C	11.9	(2.5)	88.1	(2.5)	1.2	(0.7)	6.7	(2.0)	92.2	(2.1)	0.5	(0.5)	16.7	(3.0)	82.8	(3.0)
	Kosovo	0.0	(0.0)	38.6	(1.3)	61.4	(1.3)	0.0	С	6.0	(0.6)	94.0	(0.6)	0.8	(0.0)	40.1	(1.4)	59.1	(1.4)
	Lebanon	0.9	(0.6)	19.9	(2.6)	79.2	(2.5)	0.4	(0.3)	6.5	(1.5)	93.1	(1.5)	6.2	(1.6)	33.1	(3.3)	60.7	(3.3)
	Lithuania Macao (China)	0.0	(0.7)	54.0 58.6	(3.1)	44.4	(3.1)	0.7	(0.0)	27.2	(2.4)	72.1	(2.4)	0.0	С	34.7 63.9	(3.0)	65.3	(3.0)
	Macao (Cnina) Malta	3.7	(0.0)	17.0	(0.1)	41.4 79.3	(0.1)	3.5	(0.0) C	36.0 5.8	(0.1)	60.5 94.2	(0.1)	0.0	C C	23.5	(0.0)	36.1 76.5	(0.0)
	Moldova	0.0	(0.0) C	12.8	(2.4)	87.2	(2.4)	13.9	(2.6)	7.6	(1.8)	78.6	(2.9)	1.4	(0.8)	21.3	(3.0)	77.3	(3.0)
	Montenegro	0.0	С	33.4	(0.5)	66.6	(0.5)	0.0	С	6.2	(0.4)	93.8	(0.4)	0.0	С	47.7	(0.5)	52.3	(0.5)
	Peru	3.0	(1.1)	43.8	(3.1)	53.2	(3.0)	2.1	(0.9)	19.9	(2.6)	77.9	(2.8)	2.2	(0.9)	38.9	(3.3)	58.9	(3.4)
	Qatar Romania	0.0	(0.6)	18.0	(0.1)	82.0 78.7	(0.1)	0.4 9.4	(0.0)	11.3	(0.1)	88.3 77.1	(0.1)	4.7 3.7	(0.0)	22.1	(0.1)	73.2 76.1	(0.1)
	Russia	0.8	(0.5)	37.0	(3.3)	62.7	(3.4)	0.6	(0.5)	15.5	(3.1)	83.9	(3.1)	0.3	(0.5)	39.7	(4.1)	60.0	(4.1)
	Singapore	0.0	(0.5) C	18.1	(0.6)	81.9	(0.6)	0.0	(0.5) C	10.0	(0.6)	90.0	(0.6)	0.0	(0.5) C	33.3	(0.7)	66.7	(0.7)
	Chinese Taipei	2.7	(1.2)	45.7	(3.1)	51.6	(3.1)	0.5	(0.5)	12.6	(2.4)	86.9	(2.5)	0.5	(0.5)	28.6	(2.9)	70.9	(3.0)
	Thailand	0.0	C (O, O)	32.7	(3.8)	67.3	(3.8)	0.1	(0.1)	18.5	(3.4)	81.3	(3.4)	0.7	(0.7)	19.3	(2.7)	80.0	(2.8)
	Trinidad and Tobago Tunisia	0.1	(0.0)	20.3 46.9	(0.2)	79.5 49.3	(0.2)	0.0	(1.0)	4.5 9.7	(0.1)	95.5 88.7	(0.1)	0.0 3.0	(1.5)	11.0 46.4	(0.2)	89.0 50.6	(0.2)
	United Arab Emirates	0.0	(1.0) C	18.8	(1.6)	81.2	(1.6)	1.6	(0.1)	8.6	(1.5)	89.8	(1.5)	0.7	(0.5)	26.0	(2.1)	73.3	(2.1)
	Uruguay	3.1	(1.2)	25.9	(2.7)	71.0	(2.7)	1.3	(0.8)	10.6	(1.7)	88.1	(1.8)	0.8	(0.6)	18.1	(2.3)	81.1	(2.2)
	Viet Nam	2.1	(1.7)	41.9	(4.3)	55.9	(4.4)	1.1	(0.8)	11.2	(2.4)	87.7	(2.6)	0.2	(0.2)	25.4	(3.5)	74.3	(3.5)
	Argentina**	0.0	С	30.0	(3.3)	70.0	(3.3)	0.0	С	7.6	(1.6)	92.4	(1.6)	0.9	(0.5)	35.1	(3.6)	64.0	(3.6)
	Kazakhstan**	0.0	С	14.8	(2.7)	85.2	(2.7)	4.0	(1.2)	12.7	(2.4)	83.3	(2.8)	0.7	(0.7)	23.7	(2.8)	75.7	(2.9)
	Malaysia**	0.0	С	27.5	(3.8)	72.5	(3.8)	0.0	(0.0)	13.1	(2.8)	86.9	(2.8)	1.3	(0.9)	31.1	(3.8)	67.6	(3.8)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** Link** http://dx.doi.org/10.1787/888933436489



[Part 4/5]

Table II.3.33 Educational leadership

					Percenta	ge of studer	nts in school	s whose prin	cipal reporte	ed that			
			I engage te	achers to he	lp build a scl	hool culture		Look to	sahara ta nas	uticinata in u			wa eti e e e
		Did	Inot		than		st once		not		than	anagement p At leas	st once
		oc	cur	once a	month	a m	onth	oc	cur	once a	month	a m	onth
Austra	alia	%	S.E. (0.2)	% 11.4	S.E. (1.4)	% 88.3	S.E. (1.4)	1.9	S.E. (0.5)	% 43.9	S.E. (2.1)	% 54.1	S.E. (2.1)
Austr Austr		0.3	(0.2)	33.4	(3.7)	66.3	(3.7)	15.7	(2.5)	70.1	(2.8)	14.2	(2.1)
Belgi		2.3	(1.1)	43.2	(3.1)	54.6	(2.9)	28.3	(3.0)	50.5	(3.3)	21.2	(2.5)
Cana		0.4	(0.4)	14.9	(1.8)	84.7	(1.8)	7.4	(1.6)	46.4	(3.1)	46.2	(3.1)
Chile		0.0	С	18.1	(3.1)	81.9	(3.1)	13.4	(2.7)	56.3	(4.2)	30.3	(3.9)
	h Republic	0.0	C	30.9	(2.8)	69.1	(2.8)	9.3	(1.8)	65.9	(2.9)	24.8	(2.3)
Denn Eston		0.0	(0.3)	16.2 21.5	(2.6)	83.8 78.2	(2.6)	6.3 0.3	(1.7)	71.8 80.0	(3.5)	21.9 19.7	(3.3)
Finlar		0.0	(U.3)	13.8	(2.9)	86.2	(2.9)	0.9	(0.7)	78.3	(3.5)	20.8	(3.5)
Franc		3.1	(1.1)	50.4	(3.5)	46.5	(3.3)	34.2	(2.7)	54.2	(3.0)	11.6	(2.0)
Germ	nany	0.0	С	23.2	(3.0)	76.8	(3.0)	14.5	(2.4)	68.7	(3.4)	16.8	(2.8)
Gree		0.2	(0.2)	24.6	(2.9)	75.2	(2.9)	3.9	(1.4)	58.0	(3.8)	38.1	(4.0)
Hung		1.9	(1.0)	37.3	(3.0)	60.8	(3.1)	16.9	(2.7)	70.8	(3.6)	12.3	(2.6)
Icelar Irelar		1.5 0.0	(0.1) c	24.4	(0.2)	74.1 75.6	(0.2)	4.5 9.1	(0.1)	77.5 50.6	(0.2)	17.9 40.3	(0.2)
Israel		0.6	(0.6)	27.2	(3.4)	72.2	(3.3)	17.0	(2.9)	55.0	(3.8)	28.0	(3.4)
Italy		0.0	(0.3)	30.2	(3.0)	69.6	(3.0)	4.0	(1.4)	57.8	(3.9)	38.1	(3.9)
Japan	1	4.7	(1.5)	56.5	(3.8)	38.8	(3.7)	10.0	(2.1)	36.5	(3.7)	53.5	(3.8)
Korea	a	0.0	С	25.1	(3.6)	74.9	(3.6)	2.4	(1.2)	32.0	(3.5)	65.5	(3.7)
Latvia		0.0	C (0.1)	19.5	(2.3)	80.5	(2.3)	3.6	(1.2)	69.5	(2.9)	26.9	(2.6)
	mbourg	4.3	(0.1)	55.9	(0.1)	39.8	(0.1)	39.0	(0.1)	44.5	(0.1)	16.5	(0.1)
Mexic	co erlands	0.0	C C	23.2 33.8	(2.3)	76.8 66.2	(2.3)	5.6 8.0	(1.6)	43.7 67.3	(3.2)	50.7 24.7	(3.1)
	Zealand	0.0	(0.5)	17.5	(2.6)	82.0	(2.7)	1.9	(1.2)	58.2	(4.0)	40.0	(3.9)
Norw		0.0	C	14.8	(3.0)	85.2	(3.0)	0.5	(0.5)	74.9	(3.2)	24.7	(3.2)
Polan		0.6	(0.6)	49.9	(4.1)	49.5	(4.2)	2.1	(1.2)	69.0	(3.6)	28.8	(3.6)
Portu		0.0	С	15.9	(2.4)	84.1	(2.4)	1.1	(0.6)	46.1	(3.5)	52.8	(3.6)
	k Republic	0.7	(0.7)	26.4	(3.2)	73.0	(3.1)	5.6	(1.5)	50.7	(3.0)	43.7	(3.1)
Slove Spain		0.0 1.0	(0.4)	11.2 33.0	(0.2) (4.0)	88.8 66.0	(0.2) (4.0)	3.0 6.8	(0.2)	55.6 58.8	(0.5)	41.4 34.4	(0.5)
Swed		0.0	(U.4)	11.7	(2.2)	88.3	(2.2)	7.3	(1.8)	61.3	(3.9)	31.4	(3.5)
	erland	1.1	(0.7)	47.2	(4.0)	51.7	(4.0)	20.0	(3.0)	69.4	(3.8)	10.6	(2.5)
Turke		0.0	C	15.7	(3.3)	84.3	(3.3)	0.6	(0.5)	25.3	(3.8)	74.1	(3.8)
	d Kingdom	0.0	С	15.3	(2.4)	84.7	(2.4)	2.7	(1.2)	51.4	(3.7)	45.9	(3.7)
Unite	ed States	0.3	(0.3)	5.1	(1.7)	94.6	(1.7)	2.3	(1.0)	27.2	(3.6)	70.5	(3.5)
OECI	D average	0.7	(0.1)	26.4	(0.5)	72.9	(0.5)	8.9	(0.3)	57.1	(0.6)	34.1	(0.5)
Alban	nia	1.7	(1.0)	17.4	(2.7)	81.0	(2.9)	0.0	С	29.0	(3.4)	71.0	(3.4)
Alban Alger Brazi		1.4	(1.0)	42.0	(4.2)	56.6	(4.3)	5.4	(2.1)	42.9	(4.0)	51.7	(4.3)
Brazi		0.4	(0.4)	15.1	(1.5)	84.4	(1.6)	5.7	(1.2)	37.0	(2.3)	57.3	(2.3)
B-S-J- Bulga	·G (China)	0.5	(0.4) C	45.2 22.3	(4.2)	54.3 77.7	(4.2)	0.0	(0.0)	72.6 39.6	(3.9)	27.4 60.4	(3.9)
	A (Argentina)	0.0	С	30.0	(3.3) (6.8)	70.0	(3.3) (6.8)	20.8	(5.3)	45.4	(6.6)	33.8	(7.0)
Color		0.0	С	29.0	(3.4)	71.0	(3.4)	9.3	(2.4)	51.2	(3.6)	39.6	(3.5)
	ı Rica	1.1	(0.9)	22.3	(3.2)	76.5	(3.4)	9.9	(2.1)	44.4	(3.8)	45.6	(3.9)
Croat		0.0	С	23.8	(3.2)	76.2	(3.2)	4.2	(1.5)	61.3	(4.1)	34.5	(3.9)
Cypru		0.0	С	16.6	(0.1)	83.4	(0.1)	5.2	(0.1)	39.2	(0.2)	55.6	(0.2)
Domi FYRC	inican Republic	0.0	С	7.1	(1.9)	92.9 78.6	(1.9)	7.4	(2.2)	30.8 32.0	(3.7) (0.2)	61.8 65.4	(3.7)
Georg		0.0	(0.1)	16.8	(2.4)	83.1	(0.2)	1.7	(0.0)	40.4	(3.3)	57.9	(3.3)
	g Kong (China)	0.0	(U.1)	39.5	(4.3)	60.5	(4.3)	0.0	(0.9) C	63.2	(3.9)	36.8	(3.9)
Indor		1.7	(1.1)	16.1	(2.6)	82.2	(2.8)	3.5	(1.6)	42.8	(3.6)	53.7	(3.9)
Jorda		0.8	(0.6)	21.8	(3.0)	77.5	(3.1)	2.9	(1.1)	30.8	(3.8)	66.3	(3.9)
Kosov		0.6	(0.4)	30.6	(1.3)	68.8	(1.3)	1.9	(0.3)	35.4	(1.3)	62.7	(1.3)
Lebar Lithu		1.2 0.5	(0.7)	27.7 36.0	(3.1)	71.1 63.5	(3.0)	6.8	(1.8)	46.0 74.8	(3.4) (2.5)	47.2 22.2	(3.3)
	ania 10 (China)	0.5	(U.4) C	57.1	(0.1)	42.9	(0.1)	2.7	(0.0)	68.3	(0.1)	28.9	(2.3
Malta		0.0	c	29.5	(0.1)	70.5	(0.1)	1.5	(0.0)	63.9	(0.1)	34.6	(0.1
Mold	lova	0.6	(0.5)	19.3	(3.0)	80.1	(3.0)	3.3	(1.2)	40.2	(3.6)	56.5	(3.7
	tenegro	0.0	С	17.3	(0.5)	82.7	(0.5)	0.8	(0.1)	57.8	(0.3)	41.4	(0.3)
Peru		2.7	(0.9)	29.7	(2.9)	67.7	(3.1)	9.0	(2.0)	51.4	(3.0)	39.5	(3.2
Qata: Roma		0.0	c	28.0	(0.1)	72.0	(0.1)	11.5	(0.1)	40.9	(0.1)	47.6	(0.1)
Russia		0.0	(0.3)	15.3 34.1	(3.1) (4.2)	84.7 65.5	(3.1) (4.2)	5.0 3.9	(1.8)	43.7 53.8	(3.9)	51.3 42.3	(4.1)
Singa		0.0	(U.3)	22.1	(0.6)	77.9	(0.6)	0.0	(1.3) C	67.0	(1.3)	33.0	(1.3
	ese Taipei	0.5	(0.5)	35.3	(3.0)	64.2	(3.1)	2.9	(1.1)	51.1	(3.7)	46.0	(3.7
Thaila	and .	0.0	С	16.6	(3.2)	83.4	(3.2)	1.1	(8.0)	27.8	(3.1)	71.2	(3.1
	lad and Tobago	0.9	(0.0)	11.7	(0.2)	87.3	(0.2)	5.8	(0.1)	32.7	(0.2)	61.6	(0.3
Tunis		5.0	(1.9)	47.7	(5.0)	47.3	(4.9)	20.0	(3.2)	49.5	(4.6)	30.5	(4.2
Unite	ed Arab Emirates	0.0 1.0	(0.7)	14.4 12.8	(1.6) (2.2)	85.6 86.2	(1.6) (2.4)	4.1 7.0	(0.9) (1.8)	44.6 33.5	(2.6) (2.8)	51.3 59.5	(2.7
Viet 1		0.6	(0.7)	22.9	(3.4)	76.5	(3.5)	1.4	(0.9)	50.2	(4.1)	48.4	(4.2
		0.0	(0.0)	18.9	(2.8)	81.1	(2.8)	13.0	(2.4)	48.6	(4.1)	38.4	(4.2
Anac		0.0	C	1 10.9	17.01	01.1	(4.0)	1 13.0	(7.4)	40.0	(4.1)	1 20.4	(4.2
Arger	khstan**	0.7	(0.5)	19.4	(3.1)	79.9	(3.2)	2.1	(0.9)	38.5	(3.7)	59.4	(3.7

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ***is** http://dx.doi.org/10.1787/888933436489



[Part 5/5]

Table II.3.33 Educational leadership

				Percenta	ge of studer	nts in school	s whose prin	cipal report	ed that			
				up a classroo		,	ı	discuss the			with teacher	rs
		d not ccur	Less	roblem toget than month	At lea	st once onth		l not cur	Less	meetings than month		st once onth
	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Australia	2.2	(0.6)	17.4	(1.6)	80.4	(1.6)	1.6	(0.5)	31.2	(1.8)	67.2	(1.9)
Australia Austria Belgium	0.0	(0.9) c	33.7 18.3	(3.1) (2.5)	64.6 81.7	(3.1)	0.8	(0.5)	71.5 70.7	(3.0)	27.8 26.0	(3.0)
Canada	0.0	(0.1)	10.6	(1.8)	89.4	(1.8)	0.0	(0.0)	18.1	(2.2)	81.9	(2.0)
Chile	3.3	(1.5)	14.5	(2.9)	82.2	(3.3)	1.3	(1.0)	27.2	(3.9)	71.5	(3.9)
Czech Republic	0.1	(0.2)	21.5	(2.5)	78.3	(2.5)	0.4	(0.4)	60.9	(3.4)	38.7	(3.4)
Denmark	0.0	C	20.1	(2.6)	79.9	(2.6)	5.4	(1.7)	53.7	(3.6)	40.9	(3.7)
Estonia Finland	0.0	(0.7) c	24.2 16.6	(2.5)	74.6 83.4	(2.5)	0.3	(0.3) c	57.1 44.0	(2.7) (4.1)	42.7 56.0	(2.7)
France	1.2	(0.8)	26.7	(2.8)	72.0	(2.8)	2.2	(1.0)	62.1	(3.2)	35.6	(3.1)
Germany	0.2	(0.2)	28.6	(3.7)	71.2	(3.7)	3.2	(1.3)	67.3	(3.6)	29.5	(3.3)
Greece	0.2	(0.2)	29.2	(3.9)	70.6	(3.9)	0.2	(0.2)	51.5	(3.5)	48.3	(3.5)
Hungary	0.6	(0.5)	35.1	(3.4)	64.3	(3.4)	1.7	(1.0)	66.6	(3.4)	31.8	(3.4)
Iceland Ireland	0.0	C C	12.0 26.7	(0.2)	88.0 73.3	(0.2)	0.0 3.9	(1.5)	33.4 65.0	(0.2) (4.0)	66.6 31.1	(0.2)
Israel	0.5	(0.5)	13.5	(2.9)	86.0	(2.9)	0.0	(1.3) C	29.5	(3.6)	70.5	(3.6)
Italy	0.0	(O.5)	18.5	(3.4)	81.5	(3.4)	0.0	(0.0)	67.2	(3.8)	32.8	(3.8)
Japan	1.9	(1.0)	26.3	(2.9)	71.7	(3.0)	3.5	(1.3)	70.7	(3.5)	25.8	(3.2)
Korea	0.5	(0.5)	24.6	(3.7)	74.9	(3.7)	4.3	(1.6)	31.8	(3.9)	63.9	(4.2)
Latvia	0.4	(0.4)	18.8	(2.1)	80.8	(2.2)	0.0	(O, O)	61.9	(3.0)	38.1	(3.0)
Luxembourg Mexico	0.0	(0.2)	21.4 20.9	(0.1)	78.6 78.8	(0.1)	1.4 0.6	(0.0)	61.6 32.2	(0.1)	37.0 67.2	(0.1)
Netherlands	1.0	(1.0)	34.1	(4.1)	64.9	(4.2)	4.9	(2.0)	64.1	(4.3)	30.9	(4.2)
New Zealand	2.3	(1.3)	29.9	(3.9)	67.8	(4.0)	2.9	(1.3)	38.2	(3.8)	58.9	(3.9)
Norway	0.0	C	15.7	(2.7)	84.3	(2.7)	0.6	(0.6)	21.4	(3.1)	78.0	(3.1)
Poland Portugal	0.2	(0.1)	24.8 16.6	(3.6)	75.0 82.9	(3.5)	0.0	(O 7)	70.0	(3.7)	30.0 85.4	(3.7)
Slovak Republic	0.0	(U.4) C	11.7	(2.7)	88.3	(2.7)	0.7	(0.7) C	13.9 27.9	(2.4)	72.1	(2.5)
Slovenia	0.0	С	31.9	(0.5)	68.1	(0.5)	0.0	С	22.0	(0.5)	78.0	(0.5)
Spain	1.6	(1.0)	21.7	(2.7)	76.7	(2.8)	0.1	(0.1)	72.1	(3.1)	27.8	(3.1)
Sweden	0.0	C	20.0	(3.2)	80.0	(3.2)	0.8	(0.6)	24.6	(3.3)	74.6	(3.4)
Switzerland	0.3	(0.2)	36.4	(3.7)	63.4	(3.8)	6.6	(1.7)	71.2	(4.0)	22.1	(3.9)
Turkey United Kingdom	0.0 1.5	(0.8)	11.7 11.9	(2.8)	88.3 86.7	(2.8)	0.0	(0.6)	58.4 31.0	(3.5) (2.9)	41.6 68.4	(3.5)
United States	0.3	(0.3)	9.3	(2.4)	90.4	(2.4)	0.9	(0.7)	19.3	(3.2)	79.8	(3.2)
OECD average	0.6	(0.1)	21.6	(0.5)	77.8	(0.5)	1.5	(0.2)	47.7	(0.5)	50.8	(0.5)
	0.0	С	4.4	(1.4)	95.6	(1.4)	1.3	(0.6)	38.1	(3.9)	60.7	(3.9)
Albania Algeria Brazil	0.6	(0.6)	19.0	(3.3)	80.4	(3.4)	6.5	(2.3)	34.0	(4.1)	59.4	(4.0)
E Brazil	0.0	(0.0)	4.6	(1.2)	95.4	(1.2)	0.2	(0.1)	23.6	(2.4)	76.2	(2.4)
B-S-J-G (China)	0.0	(0.0)	21.4	(3.5)	78.6	(3.5)	0.5	(0.4)	52.1	(4.4)	47.3	(4.3)
Bulgaria	0.0 2.3	(2.3)	17.9 19.0	(2.7)	82.1 78.8	(2.7)	0.0	С	29.8 70.2	(3.7)	70.2 29.8	(3.7)
CABA (Argentina) Colombia	2.3	(1.2)	24.5	(3.3)	72.7	(3.4)	2.2	(1.0)	43.4	(3.4)	54.4	(3.5)
Costa Rica	1.2	(0.8)	25.3	(3.6)	73.6	(3.6)	0.5	(0.5)	32.9	(3.8)	66.6	(3.9)
Croatia	0.0	С	13.5	(2.6)	86.5	(2.6)	0.0	С	25.4	(3.2)	74.6	(3.2)
Cyprus*	0.0	C	32.0	(0.2)	68.0	(0.2)	0.2	(0.0)	53.1	(0.2)	46.7	(0.2)
Dominican Republic FYROM	0.0	(0.0)	9.4	(2.4)	90.6 85.2	(2.4)	0.0	(0.0)	19.4 38.5	(3.6) (0.2)	80.6 60.4	(3.6) (0.2)
Georgia	0.3	(0.0)	6.9	(1.8)	92.9	(1.8)	0.2	(0.0)	77.0	(2.8)	22.8	(2.8)
Hong Kong (China)	0.1	(0.0)	49.0	(4.8)	50.9	(4.8)	0.8	(0.7)	77.1	(4.0)	22.1	(3.9)
Indonesia	2.4	(1.2)	19.1	(3.0)	78.5	(3.2)	2.1	(1.2)	30.8	(3.4)	67.1	(3.4)
Jordan	1.1	(0.8)	12.0	(2.3)	86.9	(2.5)	0.5	(0.5)	24.2	(3.0)	75.3	(2.9)
Kosovo Lebanon	0.0	(0.2)	9.5 15.7	(0.9) (2.4)	90.5 84.0	(0.9) (2.4)	0.5	(0.4)	37.3 35.7	(1.4)	62.2 63.3	(1.4)
Lithuania	0.0	(U.2)	31.0	(2.4)	69.0	(2.4)	0.9	(U.7)	64.5	(3.2)	35.5	(3.2)
Macao (China)	0.0	c	29.8	(0.1)	70.2	(0.1)	0.0	c	60.9	(0.1)	39.1	(0.1)
Malta	0.0	С	5.8	(0.1)	94.2	(0.1)	0.0	С	49.6	(0.1)	50.4	(0.1)
Montonogro	0.4	(0.3)	12.7	(2.3)	86.9	(2.4)	0.3	(0.3)	33.4	(3.9)	66.3	(3.9)
Montenegro Peru	0.0 6.1	(1.6)	9.3 27.6	(0.4)	90.7 66.2	(0.4)	0.0 1.5	(0.6)	67.2 41.2	(0.3)	32.8 57.3	(0.3)
Qatar	0.0	(1.0) C	14.4	(0.1)	85.6	(0.1)	0.0	(0.0) C	25.7	(0.1)	74.3	(0.1)
Romania	2.2	(1.2)	17.4	(3.1)	80.4	(3.3)	3.1	(1.4)	25.1	(3.5)	71.9	(3.6)
Russia	0.0	С	12.1	(2.8)	87.9	(2.8)	0.0	C	56.0	(3.7)	44.0	(3.7)
Singapore Chinese Taipei	0.0	(O E)	19.0	(0.9)	81.0	(0.9)	0.8	(0.0)	48.8	(1.1)	50.4	(1.1)
Thailand	0.5	(0.5)	22.7 17.0	(3.2)	76.8 82.9	(3.3)	1.3 0.0	(0.8) c	57.6 18.9	(3.6)	41.1 81.1	(3.5)
Trinidad and Tobago	1.0	(0.1)	12.7	(0.2)	86.4	(0.2)	1.7	(0.0)	26.4	(0.3)	72.0	(0.3)
Tunisia	0.2	(0.2)	23.0	(3.9)	76.8	(3.9)	5.2	(2.0)	77.7	(3.5)	17.1	(3.5)
United Arab Emirates	0.0	(0.0)	12.8	(1.6)	87.2	(1.6)	0.2	(0.0)	27.0	(2.1)	72.8	(2.1)
Uruguay Viot Nom	0.1	(0.1)	12.8	(2.0)	87.1	(2.0)	1.3	(0.9)	11.1	(2.0)	87.5	(2.2)
Viet Nam	0.0	С	12.9	(2.7)	87.1	(2.7)	0.0	С	15.9	(2.9)	84.1	(2.9)
Argentina** Kazakhstan**	0.3	(0.2)	17.3	(2.5)	82.4 82.2	(2.5)	0.5	(0.5)	61.4	(3.4)	38.0	(3.4)
Malaysia**	1.8 0.6	(0.9)	16.1 19.3	(2.9)	82.2	(2.9)	0.0	C C	36.9 29.7	(3.6)	63.1 70.3	(3.6)
	, 0.0	(5.0)		(0.0)		(0.0)				(0.7)		(3.7)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ***j= http://dx.doi.org/10.1787/888933436489



[Part 1/5]

Table II.4.1 Responsibilities for school governance

				ports P	ercent	age of	studer	nts in s	chools	wher	e the p	orinci	al has	consi	derabl	e resp	onsibi	lity fo	r the f	ollowi	ng:			
		Selecting teachers for hire		ring chers	Establ teacl star sala	ting	Deterr teacl sala incre	hers' ary		ılating chool Iget	on bi	ding udget ations n the ool	Establ stuc discip poli	lent linary	Establ stud assess poli	lent ment	stude admi	oving nts for ssion the ool	wh texth	osing nich oooks used	Deterr cou		wh cours	iding iich es are ered
		% S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
8	Australia Austria	87.3 (1.1) 51.6 (3.4)	58.0 27.1	(1.7)	16.9	(1.2)	17.5	(1.3)	76.3 14.7	(1.8)	91.0 90.7	(1.2)	79.6 73.0	(1.7)	69.9 49.9	(1.8)	88.2 86.0	(1.2)	19.3 29.3	(1.6)	18.2 29.1	(1.5)	80.6 61.1	(1.5)
OF	Belgium	75.7 (2.5)	66.1	(2.8)	0.8	(0.5)	0.9	(0.5)	61.6	(2.4)	70.7	(2.7)	72.8	(2.7)	69.4	(2.7)	70.6	(3.0)	38.9		20.0	(2.3)	62.1	(2.7)
	Canada	79.3 (1.9)	36.4	(2.7)	3.2	(0.7)	2.7	(0.6)	49.6	(2.7)	91.6	(1.1)	85.2	(1.9)	67.4	(2.3)	86.3	(1.7)	47.4	(2.7)	23.7	(2.3)	91.0	(1.5)
	Chile Czech Republic	99.3 (0.4)	57.2 99.1	(3.3)	22.3 84.1	(2.7)	22.3 84.3	(2.9)	51.5 91.7	(3.8)	96.9	(4.0)	69.8 93.7	(3.6)	65.9 89.6	(3.6)	67.5 98.1	(3.8)	26.3 49.4	(3.3)	26.9 66.6	(3.4)	93.7	(3.4)
	Denmark	97.8 (0.4)	96.3	(1.2)	31.2	(2.1)	27.3	(2.1)	83.7	(3.2)	89.3	(1.9)	75.9	(3.2)	71.7	(3.5)	92.3	(2.1)	51.9		43.4	(3.6)	82.1	(2.8)
	Estonia	96.9 (1.0)	97.3	(0.8)	32.4	(2.6)	58.5	(2.6)	89.3	(1.8)	94.0	(1.3)	94.3	(1.3)	89.7	(1.7)	93.4	(1.2)	48.3	(2.9)	92.6	(0.9)	86.1	(2.0)
	Finland	91.1 (2.3)	50.8		18.2	(3.0)	21.0	(3.4)	65.9	(3.8)	96.6	(1.5)	80.1	(3.3)	61.0	(3.6)	84.6		44.0	(4.2)	23.6	(3.6)	79.0	(3.3)
	France Germany	32.3 (2.7) 62.4 (3.0)	17.3	(2.8)	0.7	(0.8)	3.8 4.1	(1.3)	63.8 9.1	(3.3)	74.2 73.8	(2.9)	70.4	(3.3)	64.2 50.6	(3.1)	56.1 94.3	(2.9)	29.7 27.3	(2.9)	6.0	(1.5)	34.9 88.4	(2.9)
	Greece	3.5 (0.9)	2.4		0.4	(0.4)	0.9	(0.7)	18.2	(2.4)	32.1	(3.2)	31.8	(3.7)	11.6	(1.8)	81.0	(3.1)	1.5	(0.8)	1.0	(0.9)	2.7	(1.3)
	Hungary	54.3 (3.3)	49.8		14.6	(2.6)	14.6	(2.6)	22.7	(2.4)	29.2	(2.8)	45.3	(3.2)	45.4	(3.0)	81.9	(2.6)	18.9	(2.4)	21.2	(2.8)	31.0	(3.1)
	Iceland Ireland	99.3 (0.1) 74.6 (3.2)	97.5 31.5	(0.1)	7.9 5.4	(0.1)	7.3 4.8	(0.2)	86.3 50.8	(0.2)	93.9 78.8	(0.2)	94.6	(0.2)	91.4	(0.2)	90.5	(0.2)	32.9 28.1	(0.3)	28.7 19.2	(0.2)	88.2	(0.2)
	Israel	92.4 (2.2)	86.6	(2.5)	15.1	(2.6)	23.7	(3.5)	39.9	(4.0)	83.3	(3.1)	80.2	(3.6)	79.7	(3.7)	82.0	(3.1)	42.6	(4.2)	42.5	(4.6)	88.4	(2.4)
	Italy	10.1 (2.0)	17.5	(2.7)	3.2	(1.1)	2.7	(0.9)	13.4	(2.7)	45.8	(4.1)	29.9	(3.5)	30.6	(3.8)	61.8	(3.7)	8.0	(1.6)	11.1	(2.0)	32.4	(3.5)
	Japan Korea	31.8 (2.7) 34.4 (3.8)	29.1 26.7	(2.6)	13.4 7.4	(2.4)	23.2	(2.9)	42.6 31.6	(3.3)	83.2	(2.9)	92.6 72.4	(1.9)	90.0 55.7	(2.3)	98.8	(0.8)	75.5 39.2	(3.2)	82.0 24.3	(2.6)	79.8 63.9	(2.9)
	Latvia	96.8 (0.9)	95.8		48.0	(3.0)	56.8	(3.0)	85.4	(2.0)	82.2	(2.1)	75.1	(2.3)	67.9	(2.2)	75.2	(2.3)	48.0		22.9	(2.3)	68.9	(2.9)
	Luxembourg	67.8 (0.1)	40.7	(0.1)	5.6	(0.1)	3.9	(0.0)	71.2	(0.1)	77.2	(0.1)	69.1	(0.1)	38.1	(0.1)	99.4	(0.0)	1.9	(0.0)	1.9	(0.0)	57.0	(0.1)
	Mexico Netherlands	18.4 (2.0)	15.5 90.3		6.7	(1.4)	6.6	(1.3)	30.4	(2.9)	43.3 82.1	(3.0)	37.7	(3.2)	19.0	(2.5)	38.4	(3.3)	8.3	(1.5)	20.8	(1.2)	6.3	(1.4)
	Netherlands New Zealand	92.9 (2.6) 96.8 (1.1)	68.1	(2.8)	48.9	(4.7)	63.1 35.9	(4.2)	80.6 90.7	(4.0)	92.4	(3.6)	91.5 87.9	(2.7)	83.6	(3.7)	91.0 87.3	(2.8)	48.6 11.3	(5.1)	20.8	(4.2)	90.9	(2.8)
	Norway	96.2 (1.5)	76.6		13.8	(2.6)	20.8	(2.8)	74.6	(2.9)	94.9	(1.6)	72.2	(3.1)	67.6	(2.9)	61.8	(3.7)	71.6		37.9	(3.7)	80.3	(2.7)
	Poland	98.1 (1.1)	96.4		26.5	(3.3)	19.9	(3.0)	55.0	(3.8)	79.4	(2.9)	57.8	(4.0)	57.9	(4.3)	94.2	(1.7)	52.3	(3.9)	49.6	(3.8)	63.1	(3.6)
	Portugal Slovak Republic	39.9 (3.6) 98.0 (0.9)	99.0		1.3 52.0	(1.0)	1.3 57.5	(1.0)	48.4 75.5	(3.7)	55.2 89.0	(3.8)	55.0 79.0	(3.5)	35.7 58.6	(4.0)	54.7 98.0	(4.1)	5.4 32.5	(1.7)	12.1 30.4	(2.5)	40.1 76.8	(3.9)
	Slovenia	97.5 (0.1)	90.6		17.8	(0.4)	31.3	(0.3)	57.3	(0.6)	78.5	(0.3)	77.5	(0.4)	65.4	(0.4)	64.0	(0.6)	26.4		17.7	(0.3)	59.3	(0.5)
	Spain	34.3 (1.7)	33.1	(1.7)	4.4	(1.3)	5.5	(1.4)	63.2	(3.2)	71.1	(2.5)	62.4	(2.9)	44.6	(3.0)	29.3	(2.8)	20.6		15.7	(2.4)	50.8	(3.0)
	Sweden Switzerland	100.0 c 89.6 (2.8)	86.2 72.2	(2.7)	76.9	(2.7)	90.2	(2.1)	80.2 43.8	(2.8)	96.0	(1.7)	95.0 76.2	(1.3)	83.3	(3.0)	64.0	(3.6)	32.1	(3.7)	19.8	(2.8)	42.7	(3.8)
	Turkey	4.9 (2.2)	4.0	(2.1)	0.9	(0.8)	1.2	(0.8)	16.0	(2.9)	18.8	(3.3)	5.1	(2.1)	4.7	(2.1)	15.1	(2.9)	6.3	(2.2)	2.2	(1.3)	8.5	(2.6)
	United Kingdom	95.0 (1.5)	85.1	(2.2)	79.0	(2.4)	76.6	(2.6)	81.2	(2.6)	95.2	(1.5)	92.6	(1.8)	87.8	(2.1)	70.4	(3.6)	14.2	(2.6)	19.0	(2.9)	80.8	(2.7)
	United States	93.0 (1.9)	82.1	(3.0)	9.8	(2.3)	9.2	(2.3)	54.0	(3.5)	85.8	(2.8)	82.1	(3.0)	61.8	(3.6)	59.2	(3.6)	46.2		39.5	(3.3)	81.9	
	OECD average	70.3 (0.4)	57.4	(0.4)	20.1	(0.4)	23.4	(0.4)	56.3	(0.5)	75.9	(0.4)	72.1	(0.5)	61.4	(0.5)	75.6	(0.4)	31.9	(0.5)	27.1	(0.5)	63.9	(0.5)
ers	Albania	60.8 (3.5)	55.6		6.7	(0.9)	7.2	(1.0)	28.1	(2.7)	35.8	(3.2)	31.6	(3.4)	19.1	(3.5)	67.6	(3.9)	4.9		15.5	(2.4)	35.2	
artners	Algeria Brazil	14.4 (3.1) 26.6 (2.5)	15.6 23.8	(3.0)	9.4	(0.6)	2.5 7.9	(1.2)	68.3 18.9	(4.0)	87.7 19.0	(2.9)	74.4 41.4	(3.8)	14.5 34.1	(2.7)	79.0 43.9	(3.4)	5.0	(1.6)	0.5	(0.5)	3.9	(1.3)
ď	B-S-J-G (China)	34.5 (3.6)	21.6		4.5	(1.5)	6.6	(1.7)	34.3	(4.1)	42.3	(4.0)	46.7	(4.0)	45.1	(3.9)	27.9	(3.7)	10.9	(2.3)	14.0	(2.5)	25.3	(3.4)
	Bulgaria	96.7 (1.5)	97.5		79.3	(3.0)	88.0	(2.4)	56.4	(3.8)	92.9	(1.9)	33.6	(3.6)	25.8	(3.5)	76.4	(3.5)	11.9		6.8	(2.0)	15.1	(2.9)
	CABA (Argentina) Colombia	53.5 (5.3) 24.2 (1.7)	40.1	(6.3)	2.1	(2.1)	0.0	(2.1)	22.8 32.5	(6.2)	41.2 39.7	(7.4)	60.6 27.2	(6.1)	39.4 27.1	(7.0)	68.4 53.2	(6.0)	11.2		30.3	(5.5)	37.1 52.8	(5.7)
	Costa Rica	18.9 (2.6)	14.9		6.7	(1.8)	4.8	(1.5)	54.5	(3.7)	64.3	(3.3)	80.7	(2.8)	51.5	(3.1)	89.4	(2.3)	16.9		7.6	(2.0)	20.2	(2.7)
	Croatia	88.2 (2.5)	76.3	(3.2)	0.0	С	1.4	(1.0)	63.6	(3.9)	76.0	(3.5)	54.0	(4.2)	35.2	(3.4)	50.7	(3.6)	8.0	(2.2)	4.6	(1.5)	20.8	(3.2)
	Cyprus* Dominican Republic	14.2 (0.1) 25.2 (2.7)	14.0 23.8		16.1	(0.1)	6.9 15.6	(0.1)	37.0 31.5	(0.1)	52.2 31.0	(0.2)	37.8 42.9	(0.2)	31.2 29.9	(0.1)	28.8	(0.1)	7.3	(0.1)	7.5 6.8	(0.1)	16.5	(0.1)
	FYROM	79.1 (0.1)	74.8	(0.1)	35.9	(0.2)	32.3	(0.1)	65.8	(0.2)	60.7	(0.1)	59.6	(0.2)	44.2	(0.2)	56.9	(0.1)	35.0	(0.1)	31.0	(0.2)	40.8	(0.2)
	Georgia	98.7 (0.8)	90.9	(2.0)	19.6	(1.9)	20.2	(2.4)	87.5	(2.2)	74.4	(3.0)	72.6	(2.9)	30.4	(3.4)	90.0	(2.3)	11.5	(2.2)	22.4	(3.2)	43.3	(3.6)
	Hong Kong (China) Indonesia	85.6 (3.2) 43.5 (3.6)	74.6	(3.4)	50.3 31.8	(3.9)	38.7 35.2	(4.3)	85.6	(3.2)	87.7	(2.8)	72.7	(4.0)	75.3 77.5	(3.5)	81.1	(3.3)	28.2	(3.6)	30.8	(4.1)	80.4 63.9	(3.4)
	Jordan	9.9 (1.5)		(1.6)	4.7	(1.2)	5.4	(1.5)	39.2	(3.8)	38.0				15.8	(2.3)					5.9	(1.6)	8.5	
	Kosovo	35.3 (1.4)	20.7	(1.3)	2.7	(0.7)	2.5	(0.6)	37.1	(1.3)	42.1	(1.3)	50.3	(1.3)	27.7	(1.2)	49.7	(1.3)	6.2	(0.6)	12.2	(1.0)	17.2	(1.2)
	Lebanon Lithuania	53.3 (3.0) 97.0 (0.9)	49.4 99.5		36.9 67.4	(2.4)	34.1 65.5	(2.3)	66.8 73.0	(3.4)	68.1 79.9	(3.6)	64.7 57.4	(3.2)	54.3 46.7	(3.2)	70.8 95.2	(3.0)	30.6		22.9 19.3	(2.3)	37.7 47.7	(3.5)
	Macao (China)	90.8 (0.0)	90.0		90.2	(0.0)	87.8	(0.0)	90.2	(0.0)	88.6	(0.0)	83.8	(0.0)	86.5	(0.0)	85.2		68.1		52.1	(0.1)	90.3	(0.0)
	Malta	41.8 (0.1)	32.5		7.1	(0.0)	20.1	(0.1)	55.0	(0.1)	77.5	(0.1)	90.2		76.6	(0.1)	40.3	(0.1)		(0.1)	32.5	(0.1)		
	Moldova	83.8 (2.3)	80.3		21.4	(3.0)	16.2	(2.6)	34.8	(3.6)	46.6	(3.7)	35.4	(3.4)	19.3	(2.6)	64.2	(3.0)	4.9		7.4	(1.8)	26.2	(3.3)
	Montenegro Peru	99.4 (0.0) 48.1 (2.6)	95.3 34.5		2.1	(0.0)	30.5	(0.4)	24.9 64.2	(0.4)	50.9 70.7	(0.3)	29.0 74.7	(0.2)	25.3 66.2	(0.2)	23.3 85.9	(0.3)	1.2 31.0		4.3	(0.1)	26.2 48.9	(0.3)
	Qatar	84.3 (0.1)	83.9	(0.1)	15.3	(0.1)	19.9	(0.1)	34.1	(0.1)	61.5	(0.1)	68.3	(0.1)	43.7	(0.1)	61.8	(0.1)	29.8	(0.1)	29.7	(0.1)	55.4	(0.1)
	Romania Russia	20.6 (3.5)	18.3		9.1	(2.2)	4.4	(1.6)	28.3	(3.7)	37.1	(4.3)	44.0 44.9	(3.6)		(3.9)	19.7		23.3		13.4 37.5	(2.3)	33.6 50.6	(3.9)
	Singapore	99.0 (1.0) 47.9 (0.8)	96.1 41.0		9.5	(4.4)	18.4	(0.8)	34.3 67.8	(0.8)	64.2 81.7	(0.5)	74.8	(0.8)	75.0	(0.8)	95.6 81.1	(0.8)	23.8		28.7	(3.7)	68.7	(4.1)
	Chinese Taipei	52.6 (3.5)	47.7	(3.4)	18.3	(2.5)	19.9	(2.8)	48.4	(3.6)	65.2	(3.8)	35.2	(3.4)	26.4	(3.2)	29.6	(3.4)	10.8	(2.4)	10.9	(2.3)	18.9	(2.9)
	Thailand	72.7 (3.8)	79.4		51.2	(4.0)	73.2	(3.3)	67.4	(3.2)	76.4	(3.1)	69.1	(3.3)		(3.4)	77.8	(2.8)	49.1		39.7	(3.9)	57.4	
	Trinidad and Tobago Tunisia	25.2 (0.1) 5.6 (1.9)	9.0	(0.1)	1.8	(0.0)	3.8 1.3	(0.1)	74.2 36.9	(0.3)	85.4 75.3	(0.2)	84.3 60.7	(4.3)	79.3 9.6	(2.5)	57.6 71.7	(0.3)		(0.2)	34.0 0.5	(0.2)	81.7	
	United Arab Emirates	52.7 (2.0)	52.5		27.7	(1.8)	31.4	(1.9)	43.5	(2.7)	51.4	(2.7)	55.0	(2.2)	51.1	(2.2)	64.8	(2.5)	35.7	(1.9)	33.8	(1.7)	41.2	(1.5)
	Uruguay Viot Nam	17.2 (1.9)	9.7		2.5	(1.1)	3.0	(1.2)	9.5	(1.8)	43.7	(3.1)	57.4	(3.3)	38.6		55.6	(2.8)	12.3		8.1		33.2	
	Viet Nam	27.3 (3.6)		(3.5)	4.6	(1.4)	33.9	(3.6)		(3.9)	_				18.0				_		17.4			(3.3)
	Argentina** Kazakhstan**	34.6 (3.0) 92.4 (1.9)	16.6	(2.3)	1.0	(0.6)	0.3 9.2	(0.3)	15.6 20.8	(2.7)	34.7	(3.6)	53.5 28.0	(3.4)	46.3 12.9	(3.8)	63.2 87.3		10.6		14.0 11.5	(2.5)	13.0	(2.3)
	Malaysia**	18.8 (2.9)		(2.4)		(1.2)		(2.0)		(3.6)								(3.3)		(2.7)	12.6	(2.2)		

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** http://dx.doi.org/10.1787/888933436498



[Part 2/5]

Table II.4.1 Responsibilities for school governance

						Percei	itage (of stud	ents in	schoo	ols wh	ere tea		have o	consid	erable	respoi	nsibilit	y for	the fo	llowin	g:			
		Selecteac for	hers hire	teac	ing hers	teac star sala	ners' ting ries	Deterr teach sal	hers' ary eases	the s	ulating chool Iget	on bi alloca withi sch	n the ool	stuc discip poli	lent linary cies	Establ stud assess poli	lent ment cies	Approstuder admitosch	nts for ssion the ool	textb are	osing nich oooks used	con	tent	cours offe	iding nich ses are ered
	A 4 12	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
OECD	Australia Austria	17.1 3.2	(1.5)	0.8	(0.4)	0.5	(0.3)	0.9	(0.4)	14.6	(1.6)	22.4	(2.0)	62.0 54.3	(1.9)	69.6 69.4	(1.7)	11.7 14.4	(1.4)	90.9	(1.3)	72.2 67.0	(1.9)	62.7 35.8	(3.2)
O.	Belgium	5.4	(1.5)	1.2	(0.7)	0.0	(0.0)	0.0	(0.0) C		(1.7)	9.9	(1.8)	55.2	(3.3)		(3.0)	25.7	(2.6)		(1.8)	66.6	(2.9)	43.2	(3.2)
	Canada	4.8	(0.9)	0.2	(0.2)	0.8	(0.4)	1.8	(0.7)	5.7	(1.3)	18.6	(2.0)	52.8	(2.8)		(2.7)	1.9	(0.4)	78.3	(2.2)	55.5	(2.6)	53.6	(2.6
	Chile	4.9	(1.9)	1.0	(0.9)	0.1	(0.1)	0.1	(0.1)	3.6	(1.3)	9.9	(2.3)	62.6	(4.0)	64.3	(4.0)	20.5	(3.2)	77.1	(3.5)	52.6	(3.7)	21.7	(3.3)
	Czech Republic	1.7	(0.6)	0.9	(0.5)	0.0	С	0.1	(0.1)	2.8	(1.1)	7.7	(1.9)	59.6	(2.9)	66.9	(3.0)	11.5	(1.7)	93.0	(1.5)	90.2	(1.9)	61.2	(3.0)
	Denmark	22.7	(3.0)	0.0	С	0.1	(0.1)	1.2	(0.8)	8.5	(2.2)	30.7	(3.6)	63.7	(3.3)	55.6	(3.3)	13.6	(2.3)	93.4	(1.8)	89.2	(2.2)	46.0	(3.8)
	Estonia	5.6	(1.2)	3.5	(0.8)	4.0	(0.9)	6.0	(1.3)	19.5		23.9	(2.3)	73.0	(2.7)	84.2	(2.0)	17.2	(2.1)	94.1	(1.4)	66.2	(2.8)	80.9	(2.1
	Finland	2.4	(0.9)	0.0	С	0.0	С	0.6	(0.6)	5.3		17.9	(3.1)	68.9	(3.6)	82.0	(3.1)	2.0	(1.1)		(1.6)	78.1	(3.8)	64.7	(4.2
	France	3.4	(1.2)	0.0	(O, O)	0.0	С	0.0	С	2.4	(1.0)	8.8	(2.0)	54.8	(3.3)	69.5	(3.0)	2.5	(1.0)	87.8	(2.2)	72.9	(3.2)	60.4	(3.1
	Germany	11.2	(2.5)	0.0	(0.8)	0.0	С	0.0	С	7.8	(1.0)	41.0 11.9	(3.2)	80.4 89.9	(2.5)	84.0 39.5	(2.3)	8.4 11.8	(2.0)	84.6 5.5	(2.4)	65.0	(3.0)	47.8 6.2	(3.5
	Greece Hungary	0.0	(0.8)	0.6	(0.6)	0.0	C	0.0	C	0.1	(0.1)	0.9	(0.6)	76.6			(2.9)	4.4	(1.4)		(1.7)	66.0	(3.6)	43.7	(3.7
	Iceland	0.0	(0.0)	0.0	(U.U)	6.1	(0.1)	6.1	(0.1)	0.1	(0.0)	8.0	(0.0)	88.8	(0.2)	92.6	(0.2)	3.9	(0.1)	99.3	(0.1)	91.9	(0.2)	57.6	(0.3
	Ireland	3.4	(1.5)	0.0	С	0.0	(O.1)	0.0	(O.1)	2.1	(1.1)	6.7	(2.0)	77.7	(3.1)	80.1	(2.9)	5.9	(2.0)	98.6	(1.0)	74.3	(3.8)	55.9	(4.1
	Israel	7.7	(2.3)	2.8	(1.3)	0.0	С	0.0	C	0.5	(0.5)	10.5	(2.3)	67.4	(4.1)	73.8	(3.8)	16.3	(3.3)	85.3	(3.3)	85.8	(3.3)	35.9	(4.0
	Italy	0.8	(0.8)	0.8	(0.8)	0.0	(0.0)	0.0	(0.0)	0.4	(0.4)	6.9	(2.0)	35.5	(3.7)	88.9	(2.3)	41.5	(4.0)	91.0	(2.0)	76.8	(3.3)	59.1	(3.6
	Japan	4.6	(1.6)	0.8	(0.8)	0.8	(0.8)	0.8	(0.8)	4.9	(1.6)	9.4	(2.1)	36.3	(3.8)	36.3	(3.2)	9.6	(2.1)	46.0	(3.6)	43.0	(3.4)	39.8	(3.1
	Korea	6.9	(2.1)	3.6	(1.5)	0.6	(0.6)	0.0	С	12.1	(2.6)	46.8	(3.6)	53.5	(3.7)		(3.7)	10.8	(2.5)		(3.8)	90.4	(2.4)	61.0	(4.2
	Latvia	7.5	(1.6)	5.8	(1.2)	2.1	(0.9)	7.4	(1.8)	29.0	(3.0)	22.8	(2.6)	77.7	(2.4)	81.9	(2.3)	21.5	(2.5)	94.1	(1.2)	60.7	(2.9)	48.8	(3.0
	Luxembourg	6.8	(0.1)	0.3	(0.0)	0.0	C	0.0	C	9.4	(0.1)	12.4	(0.1)	46.9	(0.1)	36.1	(0.1)	12.4	(0.1)	84.8	(0.0)	79.1	(0.1)	56.3	(0.1
	Mexico	1.9	(0.9)	0.0	(1 1)	0.4	(0.4)	0.3	(0.3)	2.1	(0.8)	3.9	(1.2)	18.9	(1.9)	40.4	(3.1)	8.9	(1.7)	51.7	(2.8)	13.1	(2.2)	1.9	(0.9
	Netherlands	46.1	(4.5)	1.7	(1.1)	0.0	(O 4)	0.0	(1 O)	3.2	(1.5)	5.5	(2.0)	36.0	(4.0)	57.5	(4.3)	23.1	(3.6)	86.2	(3.0)	88.7	(2.7)	39.3	(4.0
	New Zealand Norway	19.2	(2.7)	0.7	(0.6)	0.4	(0.4)	0.9	(1.0)	17.3		18.2	(3.2)	47.0 59.0	(4.1)	62.3	(4.1)	15.3	(3.5)	94.1	(1.2)	95.0	(1.0)	72.0	(3.7
	Poland	0.0	(1.1) C	0.5	(0.7)	0.5	(0.4) C	0.9	(U.5)	3.2 8.2		12.9	(2.2)	91.1	(2.4)	94.9	(3.3)	1.1	(0.8)	95.7	(1.6)	78.2 94.4	(3.1)	37.0 33.2	(3.2
	Portugal	2.2	(1.0)	0.0	(0.7)	0.0	С	0.0	С	2.2		4.7	(1.6)	36.3	(3.8)	51.5	(3.5)	5.7	(1.7)	95.7	(1.3)	43.6	(3.9)	31.6	(3.6
	Slovak Republic	18.5	(2.6)	9.0	(2.0)	0.7	(0.7)	2.4	(1.1)	3.6		13.2	(2.3)	71.8	(3.0)	88.1	(2.3)	9.8	(2.0)	95.0		87.9	(2.3)	74.2	(2.9
	Slovenia	14.0	(0.3)	0.9	(0.0)	0.0	C	0.7	(0.0)	0.9		9.6	(0.3)	88.6	(0.1)	83.4	(0.4)	17.1	(0.3)	91.8		69.7	(0.6)	49.1	(0.4
	Spain	0.5	(0.5)	0.0	С	0.0	С	0.0	С	4.7	(1.6)	6.5	(1.9)	51.4	(3.2)	57.2	(3.6)	1.1	(0.8)	91.6	(2.1)	53.7	(3.8)	28.6	(3.4)
	Sweden	33.4	(3.3)	2.2	(1.0)	0.6	(0.4)	2.7	(0.8)	3.4	(1.3)	21.9	(2.7)	72.6	(3.3)	77.2	(3.1)	7.5	(1.9)	97.3	(1.1)	79.0	(3.2)	52.2	(3.8)
	Switzerland	6.6	(1.9)	1.5	(1.0)	0.8	(0.7)	0.8	(0.7)	6.3	(1.7)	13.4	(2.3)	61.6	(4.4)	63.0	(3.5)	7.7	(2.0)	64.0	(3.4)	57.0	(4.0)	32.3	(3.4
	Turkey	0.7	(0.7)	0.0	С	0.0	С	0.4	(0.3)	4.0	(1.4)	5.7	(1.6)	4.7	(2.0)	8.4	(2.3)	2.3	(1.8)	11.5	(2.6)	8.9	(2.5)	12.0	
	United Kingdom	34.6	(3.6)	1.0	(0.9)	0.0	(0.0)	6.4	(2.1)	4.2	(1.8)	12.0	(2.2)	59.8	(3.6)	69.8	(3.2)	14.6	(2.7)	95.8	(1.4)	92.5	(1.9)	80.5	(2.7
	United States	42.4	(3.7)	0.7	(0.6)	6.3	(1.7)	8.3	(2.0)	15.2	(3.3)	25.2	(3.6)	50.2	(3.7)	51.1	(3.4)	5.3	(2.0)	67.6	(3.4)	64.5	(3.7)	61.1	(3.4)
	OECD average	9.8	(0.3)	1.3	(0.1)	0.7	(0.1)	1.4	(0.1)	6.3	(0.3)	14.8	(0.4)	59.6	(0.5)	66.0	(0.5)	11.6	(0.4)	81.8	(0.4)	67.8	(0.5)	47.1	(0.5
rs	Albania	15.6	(2.2)	6.6	(1.7)	0.0	С	0.0	С	11.6	(2.1)	14.4	(2.3)	25.5	(3.4)	36.2	(3.7)	12.9	(2.2)	89.1	(2.8)	43.0	(3.8)	27.9	(3.2)
Partners	Algeria	0.0	С	0.0	С	0.0	C	0.0	C	5.9	(2.2)	9.9	(2.7)	7.7	(2.2)	18.9	(2.9)	3.6	(1.5)	22.7	(3.4)	15.7	(3.3)	22.2	(3.6
Pa	Brazil	0.9	(0.5)	0.0	С	0.1	(0.1)	0.1	(0.1)	2.5	(0.8)	6.3	(1.3)	33.8	(2.7)		(2.6)	16.2	(2.1)	88.9	(1.5)	44.4	(2.3)	15.6	(2.0
_	B-S-J-G (China)	12.3	(3.1)	3.8	(1.5)	1.7	(0.9)	2.5	(1.2)	7.5		12.7	(2.4)	36.6	(3.9)		(3.8)		(1.7)	14.2	(2.7)	23.3	(3.5)	18.0	(3.5
	Bulgaria	22.0	(3.4)	8.3	(1.7)	7.2	(2.0)	7.9	(2.0)	2.7	(1.5)	10.6	(2.5)	27.1	(3.5)		(3.7)	24.7	(3.3)		(3.3)	26.7	(3.6)	10.1	(2.4)
	CABA (Argentina) Colombia	0.2	(2.2)	0.0	(O, 6)	0.0	(O 7)	0.0	(O 4)	1.5	(1 O)	3.6	(1.2)	26.2 19.7	(5.6)	71.0	(6.8)	11.0 11.5	(4.8)	94.0 72.7	(3.1)	65.0 64.7	(6.4)	13.0	(4.0
	Costa Rica	0.2	(0.1)	0.0	(0.6)	0.0	(0.7)	0.0	(0.4)	17.7	(1.0)	20.9	(1.3)	72.0	(3.4)	55.8	(3.5)	18.8	(2.8)	86.2	(2.9)	25.8	(3.1)	19.8	(2.7
	Croatia	8.0	(1.9)	4.5	(1.8)	0.0	С	0.6	(0.6)	7.1	(1.5)	18.2	(3.1)	59.7	(4.4)		(3.8)	25.9	(3.2)	97.5	(1.2)	62.6	(4.0)	23.2	(3.3
	Cyprus*	2.7	(0.0)	0.8	(0.0)	0.0	C	0.0	(0.0) C	7.3	(0.1)	10.3	(0.1)	57.3	(0.2)		(0.2)	4.9	(0.1)	14.3	(0.1)	11.3	(0.1)	9.5	(0.1
	Dominican Republic	0.0	C	0.1	(0.1)	0.0	С	0.2	(0.2)		(2.6)		(2.3)	34.1		38.5			(3.0)	25.1	(3.5)	19.2	(3.1)	3.9	(1.7)
	FYROM	30.8	(0.1)	30.3	(0.1)	29.0	(0.1)	28.5	(0.1)	38.8	(0.1)	38.2	(0.1)	71.8	(0.1)	79.4	(0.1)	54.5	(0.1)	69.4	(0.1)	48.1	(0.2)	43.1	(0.2
	Georgia	12.8	(2.3)	2.5	(1.1)	0.0	(0.0)	1.2	(0.8)	13.9	(2.6)	9.1	(1.9)	45.0	(3.4)	62.1	(3.1)	12.5	(2.4)	95.2	(1.0)	44.4	(3.3)	41.5	(3.3)
	Hong Kong (China)	70.8	(3.9)	33.6	(4.1)	3.6	(1.7)	2.4	(1.4)	55.2	(4.3)	43.2	(4.1)	88.2	(2.8)	88.2	(2.8)	57.8	(3.8)	90.2	(2.6)	90.1	(2.6)	82.8	(3.3)
	Indonesia	4.0	(1.3)	1.7	(0.8)	0.8	(0.5)	3.2	(1.3)	54.3	(3.2)	49.0	(3.5)	72.7	(3.4)	80.7	(2.9)	67.4	(3.5)	86.4	(2.3)	85.0	(2.5)	64.2	(3.3
	Jordan	1.8	(0.9)	1.2	(0.7)	1.0	(0.7)	1.2	(0.7)	5.7	(1.6)	5.7	(1.7)	8.4	(1.7)	15.7	(2.4)	4.7	(1.7)	5.9	(1.6)	6.5	(1.6)	5.5	(1.6
	Kosovo	1.9	(0.4)	1.0	(0.3)	0.0	C (1.4)	0.0	C (O. O)	2.0		1.6		16.4		57.3	(1.2)	9.7	(0.8)	25.8	(1.3)	16.3	(1.2)	10.4	(1.1
	Lebanon Lithuania		(2.1)	4.5	(1.3)	3.3	(1.1)	1.6	(0.8)	1.8	(0.9)	2.9	(1.1)		(2.7)	44.5 83.5	(3.4)	29.3	(3.3)	41.9 88.1	(3.0)	46.2	(3.3)	49.2 82.1	(3.4
	Macao (China)		(0.0)	9.5	(0.9)	10.0	(1.9)	12.4	(2.1)		(0.0)	6.8		67.1 78.8	(2.8)	79.8	(2.0)	4.8 50.7	(1.2)	94.9	(1.8)	81.0 93.8	(2.2)	75.2	(2.2
	Malta		(0.0)	0.0	(U.U)	0.0	(U.U)	3.4	(0.0)	3.4		15.6		67.3		64.4		0.9	(0.0)	52.7		33.2	(0.0)	19.1	(0.1
	Moldova	5.1	(1.7)	4.2		2.8	(1.1)	0.7	(0.1)	4.1		13.0	(2.6)	38.7	(3.4)	32.2	(2.8)	15.7	(2.0)	45.6		52.5	(3.5)	40.5	(3.4
	Montenegro		(0.0)	1.9	(0.1)	0.0	(1.1) C	0.0	(0.5)	3.7		2.6		29.1	(0.5)	58.2		4.3	(0.2)	44.0		48.1	(0.3)		(0.4
	Peru	6.7	(1.8)	1.3	(0.7)	0.2	(0.2)	0.7	(0.5)		(2.4)	25.1		69.5	(3.0)	71.4		33.0	(3.1)	45.7		64.1	(3.1)	34.6	
	Qatar	13.4	(0.1)	4.5		0.2	(0.0)	0.2	(0.0)	3.1		2.7		29.2	(0.1)	28.9	(0.1)	7.3	(0.0)	30.3		29.0		25.3	
	Romania	1.0	(0.6)	2.2	(1.2)	1.4	(1.0)	2.0	(1.0)	11.5	(2.7)	11.6	(2.8)	55.6	(4.2)	55.1	(4.0)	12.1	(2.6)	76.9	(2.9)	68.7	(3.4)	50.9	(4.0
	Russia	0.0	С	0.7	(0.5)	1.1	(0.9)	4.6	(1.4)	2.1		4.0		41.3		66.3	(3.8)	4.2	(1.7)	77.6	(3.4)	51.8	(4.3)	59.7	(3.2
	Singapore	0.6	(0.0)	0.7	(0.0)	0.0	C	0.0	C		(0.2)	16.5	(0.8)	38.7	(1.0)	39.6		4.1	(0.1)	63.4	(8.0)	55.9	(0.7)	29.6	(0.6
	Chinese Taipei	54.3	(3.6)	51.2	(3.8)	3.6	(1.3)	4.0	(1.4)		(3.1)	29.4		45.6					(2.6)		(1.9)	88.8	(1.8)	74.3	(3.1
	Thailand	44.7	(3.9)	40.8	(3.9)	15.4	(3.1)	42.0	(3.4)	59.1		62.4	(3.2)	80.7	(2.9)	76.4	(3.1)	59.3	(3.6)	88.3	(2.4)	91.3	(2.1)	84.8	(2.7
	Trinidad and Tobago Tunisia	5.1	(0.1)	0.0	(1.4)	2.6	(0.1)	3.1	(0.1)		(0.2)	36.8		73.5		77.9			(0.1)	91.0		55.2	(0.3)	63.6	
	United Arab Emirates	0.5	(0.6)	2.9	(1.4)	0.8	(0.8)	1.2	(0.9)		(0.9)		(1.6)	11.7 34.8	(2.6)	12.3	(2.7)	1.0	(0.7)	3.6	(1.3)	15.5 34.4	(2.7)	2.9	(2.2
	Uruguay		(0.9)	0.6		0.0	(U.4)	1.0	(0.8)		(1.7)		(2.2)			50.0			(1.3)		(2.6)	36.3	(2.4)	14.1	(1.9
	Viet Nam		(0.7)		(1.1)	1.2		0.6	(0.6)		(0.6)			11.9			(2.3)	0.0		11.9		11.5	(2.3)	3.4	(1.8
_	Argentina**	1.1	(0.8)	0.1	(0.1)	0.0	С	0.0	С	2.6	(1.2)	6.5	(1.8)	40.7	(3.6)	77.5	(3.1)	6.8	(1.8)	93.6	(1.9)	48.1	(3.6)	4.8	(1.5
	Kazakhstan**	1.4	(1.2)	1.9	(1.2)	0.8	(1.1)	0.7	(1.1)	0.5	(0.4)	0.6	(0.4)	20.4	(3.3)	29.4	(3.6)	4.6	(1.8)	26.6	(3.3)	17.4	(2.6)	14.3	(2.4)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** http://dx.doi.org/10.1787/888933436498



[Part 3/5]

Table II.4.1 Responsibilities for school governance

						4 1			-		-		-							4 (
			Pe	ercent	age ot	stude	nts in s	chools	wher	e a sch			ng boa	ird ha	consi	derab			ility to	r the t	ollowii	ng:		
		Selecting teachers for hire		ing hers	Establ teacl star sala	ting	Deterr teacl sala incre	hers' ary	the s	ulating chool Iget	Deci on bu alloca withi sch	idget itions n the	stuc discip	ishing lent linary cies	Establ stuc assess poli	lent ment	stude	ssion the	wh texth	osing nich oooks used	Deterr cou		cours	iding iich es are ered
		% S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
9	Australia	3.2 (0.7)	2.2	(0.7)	7.6	(1.0)	10.2	(1.2)	35.0	(1.7)	27.2	(1.8)	18.8	(1.4)	11.4	(1.3)	2.5	(0.6)	1.6	(0.5)	2.1	(0.6)	8.6	(1.2)
OE(Austria Belgium	1.3 (0.8) 20.8 (2.6)	1.3 38.3	(0.8)	0.3	(0.2)	0.1	(0.0)	1.7	(0.8)	22.6 45.5	(3.0)	61.5 34.4	(3.3)	5.7 29.2	(1.5)	0.9	(0.6)	13.1	(2.7)	1.5 4.9	(0.3)	39.0 28.4	(3.2)
	Canada	4.9 (1.0)	8.7	(1.4)	7.7	(1.3)	7.9	(1.3)	15.2	(2.1)	8.5	(1.3)	24.0	(2.2)	15.0	(1.8)	5.9	(1.3)	7.2	(1.4)	2.4	(0.8)	11.0	(1.6)
	Chile	41.9 (4.4)	44.8	(4.1)	42.4	(2.9)	45.8	(3.1)	50.2	(3.5)	62.2	(3.6)	53.7	(4.1)	46.1	(4.4)	36.9	(4.0)	24.2	(3.9)	18.8	(3.3)	45.8	
	Czech Republic	0.3 (0.3)	0.8	(0.5)	0.3	(0.3)	0.3	(0.3)	5.6	(1.3)	4.7	(1.3)	44.0	(3.3)	30.5	(3.2)	0.4	(0.3)	1.1	(0.6)	4.1	(1.2)	9.9	(1.6)
	Denmark Estonia	43.8 (4.3) 23.9 (2.6)	9.3	(2.6)	9.9	(1.8)	7.1 9.9	(2.0)	35.1 36.4	(3.8)	68.0 28.0	(3.7)	69.4 74.8	(3.1)	20.9 58.1	(2.9)	7.9	(1.5)	15.7	(2.0)	7.1 69.4	(1.8)	51.9 44.4	(3.6)
	Finland	6.1 (1.3)	6.1	(1.3)	1.0	(0.7)	2.2	(0.7)	3.4	(1.4)	4.2	(1.5)	9.6	(2.3)	3.2	(1.4)	1.2	(0.7)	0.5	(0.5)	3.0	(1.4)	6.6	(1.6)
	France	3.2 (1.0)	1.5	(0.8)	1.2	(0.7)	1.8	(0.8)	52.5	(3.3)	78.4	(2.6)	77.8	(2.4)	31.2	(3.2)	0.0	С	19.9	(2.7)	0.8	(0.6)	11.4	
	Germany	7.2 (1.7)	1.6	(0.9)	0.5	(0.4)	0.5	(0.4)	3.8	(1.3)	61.7	(3.7)	29.1	(3.2)	35.5	(3.5)	1.2	(0.8)	53.3	(3.3)	22.3	(3.2)	26.8	(3.2)
	Greece Hungary	4.5 (0.8) 21.0 (2.7)	4.9 17.5	(0.7)	3.5	(0.8)	4.1 2.2	(0.9)	4.9 17.5	(0.7)	4.3	(0.9)	2.8 67.6	(0.8) (3.5)	1.7	(0.8)	1.9 34.4	(0.9)	40.5	(3.5)	0.6 33.5	(0.8)	0.6 52.6	(0.8)
	Iceland	3.4 (0.1)	2.5	(0.1)	0.1	(0.0)	3.6	(0.0)	10.5	(0.1)	6.6	(0.2)	16.5	(0.2)	11.3	(0.1)	1.2	(0.1)	0.0	(3.5) C	0.1	(0.0)	1.1	(0.1)
	Ireland	60.3 (3.1)	65.7	(3.1)	5.2	(1.8)	4.4	(1.7)	57.6	(3.4)	53.1	(4.1)	78.5	(3.6)	62.7	(4.3)	81.4	(3.1)	1.3	(0.7)	3.8	(1.6)	70.4	(4.0)
	Israel	2.6 (1.2)	2.1	(1.1)	0.0	C	0.0	C	8.1	(1.8)	18.1	(3.0)	47.0	(3.8)	23.5	(3.5)	9.2	(2.1)	7.6	(1.9)	8.4	(2.6)	13.0	(2.6)
	Italy	0.0 c	0.1	(0.0)	24.1	(0.0)	0.0	(0.0)	19.5 27.2	(3.0)	75.4 21.0	(3.4)	86.0	(2.2)	9.6	(2.2)	33.3	(3.7)	13.1	(2.8)	3.0	(1.1)	44.3 5.7	(3.8)
	Japan Korea	17.9 (2.1) 5.1 (1.8)	21.6	(1.8)	0.6	(1.9)	23.8	(0.6)	24.3	(3.1)	43.4	(3.7)	3.5	(3.3)	16.0	(2.6)	3.4 5.4	(1.8)	4.4	(1.3)	6.6	(2.0)	30.8	(2.0)
	Latvia	6.3 (1.4)	7.7	(1.4)	3.2	(0.7)	11.3	(1.6)	41.7	(3.1)	51.3	(2.9)	68.5	(3.0)	36.9	(2.8)	29.1	(2.1)	19.7		6.8	(1.4)	34.3	(2.8)
	Luxembourg	0.8 (0.0)	5.4	(0.0)	7.8	(0.1)	7.8	(0.1)	31.4	(0.1)	77.1	(0.1)	74.4	(0.1)	24.3	(0.1)	5.3		1.9	(0.0)	1.9	(0.0)	29.9	(0.1)
	Mexico	9.2 (2.0)	13.8	(2.0)	10.2	(1.9)	9.0	(1.8)	26.7	(3.0)	37.9	(3.3)	59.5	(2.9)	30.5	(2.8)	26.2	(2.9)	14.3	(2.4)	11.8	(2.1)	11.3	(1.9)
	Netherlands New Zealand	30.3 (3.5)	35.4 68.6	(4.3)	45.5 8.6	(4.1)	38.7 8.3	(4.3)	45.1 67.2	(4.3)	30.9 50.4	(3.9)	14.0 54.4	(2.9)	5.6 26.7	(2.0)	10.2	(2.8)	0.0	(1.2)	0.6 2.1	(0.6)	19.0 17.2	(3.4)
	Norway	2.3 (1.0)	1.8	(0.9)	0.9	(0.6)	0.9	(0.6)	5.1	(1.6)	10.0	(2.2)	34.0	(3.7)	2.5	(1.1)	1.7	(0.9)	2.1	(1.0)	0.7	(0.5)	4.4	(1.5)
	Poland	0.6 (0.6)	0.6	(0.6)	0.0	С	0.0	С	4.5	(1.6)	8.2	(2.2)	32.3	(3.9)	27.2	(3.7)	5.6	(1.8)	18.3	(3.4)	14.1	(3.0)	10.5	(2.6)
	Portugal	30.6 (3.2)	5.0	(1.3)	2.6	(1.4)	2.6	(1.4)	49.2	(3.8)	58.6	(3.5)	54.8	(3.7)	47.0	(3.7)	57.2	(4.0)	12.1	(2.5)	22.7	(3.1)	56.0	(3.7)
	Slovak Republic Slovenia	3.1 (1.2) 5.5 (0.2)	5.9	(1.6)	0.2	(0.2) C	0.2	(0.2)	8.7 53.0	(1.8)	14.1	(2.2)	22.8	(2.7)	7.6	(0.2)	4.7 12.5	(0.1)	2.3	(0.5)	4.9 6.6	(1.4)	41.1	(0.3)
	Spain	4.6 (1.2)	4.7	(1.2)	0.3	(0.3)	0.3	(0.3)	35.1	(3.3)	48.8	(3.0)	62.0	(3.4)	11.8	(2.3)	26.1	(3.2)	20.0	(2.7)	2.5	(1.1)	18.5	(3.2)
	Sweden	4.3 (1.3)	4.3	(1.2)	5.6	(1.4)	8.6	(1.4)	11.9	(2.0)	9.6	(1.8)	9.7	(2.1)	9.3	(2.3)	4.4	(1.4)	2.5	(1.1)	2.0	(1.0)	1.6	(0.6)
	Switzerland	40.4 (3.8)	37.4	(3.3)	7.4	(1.9)	9.5	(1.8)	42.7	(3.2)	34.3	(3.5)	42.4	(3.7)	19.9	(3.1)	36.3	(3.8)	8.0	(2.0)	7.3	(1.8)	28.1	(3.5)
	Turkey United Kingdom	6.4 (2.2)	4.9 67.5	(2.0)	5.5 48.0	(2.2)	5.9 72.4	(2.3)	55.6 68.7	(3.9)	74.3 43.5	(3.5)	15.3 52.7	(3.2)	12.2 36.4	(2.9)	55.4 34.1	(4.7)	29.6	(3.6)	3.0 1.2	(1.4)	30.7 29.3	(4.0)
	United States	49.3 (3.5) 23.9 (3.6)	31.0	(3.1)	48.2	(3.7)	47.7	(3.8)	44.4	(3.7)	31.8	(3.6)	46.6	(3.5)	40.1	(3.7)	31.8	(3.8)	41.0		29.6	(3.6)	44.3	(3.1)
i	OECD average	14.3 (0.4)	16.1	(0.3)	8.7	(0.3)	10.0	(0.3)	29.8	(0.4)	37.5	(0.5)	42.6	(0.5)	23.8	(0.5)	17.6	(0.4)	13.3	(0.4)	9.0	(0.3)	25.4	
S	Albania	43.2 (3.2)	43.1	(3.4)	44	(1.8)	5.9	(1.9)	55.8	(3.6)	70.6	(3.4)	65.2	(3.6)	20.1	(3.3)	19.2	(2.8)	15.6	(2.7)	27.6	(3.9)	34.8	(3.7)
artners	Algeria	0.6 (0.5)	0.6	(0.6)	0.0	C	0.0	C	5.1	(2.0)	4.4	(2.0)	10.0	(2.6)	46.9	(3.4)	13.3	(3.0)	2.8	(1.3)	1.4	(1.0)	5.2	(1.9)
Pari	Brazil	11.5 (1.7)	12.3	(1.8)	4.7	(1.1)	4.9	(1.1)	23.5	(2.3)	34.6	(2.6)	78.7	(2.3)	50.6	(2.3)	33.9	(2.5)	15.7	(2.1)	16.5	(1.9)	30.2	(2.5)
7	B-S-J-G (China)	27.1 (2.7)	23.0	(2.8)	10.0	(1.9)	16.4	(2.3)	46.7	(4.2)	67.9	(3.5)	64.6	(3.5)	59.8	(3.5)	31.4	(3.2)	17.8	(3.2)	20.0	(3.1)	29.3	(3.3)
	Bulgaria CABA (Argentina)	2.0 (1.2) 15.5 (5.5)	33.5	(1.9)	12.7	(2.0)	10.5	(2.6)	4.8 37.7	(1.4)	16.5 48.0	(2.8)	94.2	(1.8)	53.9 30.9	(3.7)	14.8	(2.6)	36.4		9.0	(2.1)	54.7 24.8	(3.0)
	Colombia	1.9 (0.6)	3.7	(0.9)	1.6	(0.7)	1.8	(0.7)	43.5	(3.6)	69.4	(3.0)	90.1	(2.2)	71.1	(3.3)	43.7	(3.3)	29.5		32.4	(3.4)	43.4	(3.5)
	Costa Rica	3.3 (1.1)	4.3	(1.3)	6.7	(1.6)	7.2	(1.7)	69.7	(3.5)	82.1	(3.0)	4.9	(1.5)	2.3	(0.9)	4.7	(1.6)	1.3	(0.7)	0.9	(0.6)	4.5	(1.4)
	Croatia	86.5 (2.6)	76.3	(3.4)	0.0	C (0.1)	0.7	(0.0)	64.1	(3.6)	84.4	(2.7)	46.3	(4.2)	11.1	(2.5)	34.2	(3.7)	3.4	(1.4)	0.0	C	8.4	(2.4)
	Cyprus* Dominican Republic	10.6 (0.1) 16.7 (2.5)	14.4	(0.1)	5.9	(0.1)	14.2 6.2	(0.1)	20.4 70.9	(0.1)	22.3 61.1	(0.1)	25.1	(0.2)	11.9 34.7	(0.1)	9.0	(0.1)	2.0	(0.0)	6.5	(0.0)	8.6 7.5	(0.1)
	FYROM	50.0 (0.2)	60.2	(0.2)	29.8	(0.2)	32.1	(0.1)	75.7	(0.1)	84.1	(0.1)	68.6	(0.2)	35.6	(0.2)	45.3	(0.2)	32.9	(0.2)	30.0	(0.1)	35.6	(0.2)
	Georgia	20.4 (2.8)	37.9	(3.2)	2.3	(0.8)	8.1	(1.8)	55.0	(3.2)	73.9	(2.5)	60.6	(3.0)	12.9	(1.9)	2.8	(0.7)	20.6		14.0	(2.1)	21.6	(2.6)
	Hong Kong (China)	45.2 (4.2)	70.3	(3.4)	36.8	(4.2)	31.6	(3.8)	63.5	(4.3)	63.7	(4.2)	14.2	(2.9)	12.4	(2.7)	12.8	(2.9)	6.6	(2.2)	2.1	(1.3)	32.4	(4.1)
	Indonesia Jordan	37.0 (2.6) 6.9 (1.3)	9.0	(2.4)	37.3 9.2	(2.5) (1.4)	38.6 9.7	(2.6)	63.1 41.4		58.4 47.5	(3.7)	28.4		14.6 21.8		32.5	(3.4)	9.4	(2.1)	4.9 6.7		10.3	(1.7)
	Kosovo	11.4 (1.1)		(1.0)	0.8	(0.3)	1.7	(0.2)	42.5	(1.4)	56.5	(1.3)	59.7	(1.3)	22.7	(1.0)	37.1	(1.2)	9.2		12.1	(1.0)	14.7	(1.0)
	Lebanon	39.1 (2.9)	35.7	(3.0)	17.6	(2.6)	16.9	(2.3)	40.5	(3.3)	42.9	(3.7)	47.0	(3.3)	45.1	(3.4)	39.2	(3.5)	35.2		26.8	(3.5)	30.6	
	Lithuania	21.4 (2.3)	10.9	(2.0)	23.6	(2.6)	29.3	(2.7)	49.4	(2.9)	48.2	(2.8)	76.1	(2.5)	57.5	(3.0)	5.0	(1.3)	47.4		20.1	(2.3)	45.1	(2.8)
	Macao (China) Malta	47.6 (0.1) 12.1 (0.1)		(0.1)	67.2 4.9	(0.0)	72.0 6.8	(0.0)	69.1 28.5	(0.1)	73.4 30.4	(0.0)	44.5 21.0	(0.1)	39.7 14.9	(0.1)	25.7 12.8	(0.1)	29.9	(0.1)	22.2 3.5	(0.1)	36.3 11.1	
	Moldova	34.2 (3.2)	39.0		23.1	(2.8)	22.9	(2.9)	45.9	(3.7)	78.4	(2.7)	80.4	(2.9)	38.9	(3.3)	43.6	(3.5)	8.6		10.3	(2.1)	55.6	(3.4)
	Montenegro	29.7 (0.2)	20.3	(0.3)	0.6	(0.0)	10.7	(0.1)	69.3	(0.5)	78.1	(0.4)	31.1	(0.4)	0.6	(0.0)	16.0	(0.1)	0.6		0.6	(0.0)	37.6	(0.3)
	Peru	31.8 (2.8)	17.3	(2.5)	1.8	(0.8)	1.7	(0.8)	45.8	(2.8)	56.3	(2.8)	65.6	(2.4)	19.6	(2.8)	33.1	(3.1)	11.6		11.0	(2.1)	15.0	
	Qatar Romania	36.6 (0.1) 61.0 (3.5)	36.7 76.6	(0.1)	34.9 7.0	(0.1)	33.9 5.7	(0.1)	42.6 56.8	(0.1)	45.9 72.3	(0.1)	20.8 78.0	(0.1)	11.9 44.8	(0.1)	18.3	(0.1)	9.7	(0.1)	8.8 16.2	(0.1)	23.6 57.7	(0.1)
	Russia	2.0 (1.2)	9.8	(2.4)		(2.8)	29.1	(4.2)	19.4	(3.4)	52.6	(3.9)	90.6	(2.2)	63.9	(3.7)		(1.9)	41.9		46.4		61.4	
	Singapore	26.1 (1.1)	22.4	(1.2)	9.2	(1.3)	18.4	(1.3)	68.2	(0.9)	72.9	(0.9)	84.3	(0.9)	83.8	(1.2)	31.2	(1.3)	74.6	(1.0)	64.3	(1.1)	81.5	(1.1)
	Chinese Taipei	20.9 (3.0)	25.6	(3.2)	9.1	(1.7)	9.9	(1.8)	24.6	(2.6)		(3.2)	66.2	(3.3)	55.0	(3.5)		(2.3)	21.4		19.0		37.7	(3.2)
	Thailand Trinidad and Tobago	57.0 (3.3) 31.7 (0.1)		(3.8)	30.5	(3.9)	33.0 7.2	(3.2)	55.3 24.3	(3.9)	52.8 23.8	(4.1)	52.0 21.3	(3.7)	40.5 14.6	(3.8)	49.6 21.2		47.4 5.8		25.7 4.5	(3.3)	43.8 16.1	(4.0)
	Tunisia	2.7 (1.3)	3.6		1.3	(0.1)	1.3	(0.1)	12.7	(2.7)	25.0	(3.6)	31.3	(3.9)	11.0	(2.3)	21.3		0.2		0.0	(U.1)	0.8	(0.1)
	United Arab Emirates	23.9 (1.9)	27.9	(2.0)	44.7	(1.9)	48.1	(2.0)	49.7	(2.1)	37.3	(2.2)	19.6	(2.1)	12.1	(1.8)	11.7	(1.9)	7.8	(1.2)	8.0	(1.6)	19.8	(1.8)
	Uruguay	11.1 (1.6)			13.9	(1.2)	14.1	(1.3)	17.1	(1.7)	20.3	(2.0)	26.0	(2.6)		(2.3)	20.1	(2.4)	5.0		4.2	(1.2)	25.8	
	Viet Nam	12.4 (2.5)				(1.5)	21.2		17.5		17.9	(3.4)	55.7		31.6		_	(2.7)		(3.1)	18.4		17.7	
	Argentina**	22.8 (3.1)			4.7	(1.5)	3.4		23.2		28.8	(3.2)	50.7	(3.5)	19.2		17.9		4.0		6.5	(1.6)	9.8	(2.1)
	Kazakhstan**	17.7 (2.7)	23.9	(3.3)	10.7	(2.5)	5.8 5.4	(1.8)	10.3	(2.3)			66.2 15.2	(2.8)	43.8	(3.6)		(3.2)		(3.6)	28.1	(3.5)	53.3 12.9	

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** http://dx.doi.org/10.1787/888933436498



[Part 4/5]

Table II.4.1 Responsibilities for school governance

	a	Pili			ports	tudon	to in o	ob o olo		local		ional o	ducat	ion ou	th ouiti	oo bou		idorol	ala saa	nonsil	.:1:4 6	ou tho	fallowi	n	
			rei	гсена	ge or s	tuaen	15 111 50	lioois	where	locai	or reg	Deci		ion au	uioriu	es nav	e con:	Appr		ponsii	Jility I	or the	lollowi	ng:	
		teac	cting thers hire		ing hers	Establ teac star sala	hers' ting	Detern teach sali incre	hers' ¯ ary	the s	ulating chool Iget		idget itions n the	Establi stud discip poli	linary	Establ stud assess poli	lent ment	stude	nts for ssion the	Choo wh texth are	ich ooks	Deterr cou	rse	wh	iding iich es are ered
	-	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
8	Australia Austria	19.7 75.8	(1.3)	47.7 80.6	(1.7)	77.6 31.4	(1.5)	74.2 26.6	(1.5)	24.0 52.6	(1.6)	4.8 10.4	(1.0)	19.4 8.4	(1.3)	29.1 15.1	(1.8)	16.9 12.1	(1.3)	4.4 0.8	(0.8)	45.6 14.3	(2.1)	18.5 24.7	(1.6) (2.6)
OECD	Belgium	16.9	(2.4)	24.9	(2.4)	4.1	(1.3)	4.1	(1.3)	25.7	(2.6)	22.3	(2.4)		(2.1)	14.1	(2.0)	5.9	(1.7)	0.7	(0.6)	16.2	(2.4)	25.1	(2.8)
	Canada	53.4	(2.5)	74.5	(2.0)	41.5	(2.6)	38.6	(2.4)	67.3	(2.5)	22.0	(2.4)	51.4	(2.6)	58.9	(2.4)	42.9	(2.6)	28.6	(2.6)	18.9	(2.3)	28.5	(2.6)
	Chile	20.4	(2.8)	29.3	(2.3)	23.9	(2.6)	18.6	(2.3)	24.6	(2.3)	15.6	(2.8)	4.0	(1.8)	2.3	(1.2)	7.6	(1.9)	0.9	(0.6)	0.0	С	11.0	(2.6)
	Czech Republic Denmark	0.0	(0.3)	0.0	(2.7)	3.3	(1.0)	9.8	(1.9)	33.9 19.2	(2.9)	14.6	(1.8)	0.8	(0.6)	0.5 9.6	(0.3)	4.6 9.8	(1.2)	0.0	(0.3)	7.1	(1.6)	0.5 18.7	(0.4)
	Estonia	3.3	(1.2)	3.8	(1.0)	30.5	(2.4)	38.7	(2.8)	49.4	(2.7)		(1.2)	11.0	(1.7)	4.3	(0.9)	29.5	(2.7)	0.2	(U.3)	11.5	(1.6)	3.4	(1.0)
	Finland	41.0	(3.6)	69.9	(3.3)	30.2	(3.8)	43.6	(3.8)	63.3	(4.0)	7.4	(2.0)		(3.2)	27.4	(3.5)	39.5	(4.0)	0.7	(0.7)	26.6	(3.4)	32.3	(3.8)
	France	62.4	(3.2)	66.5	(3.1)	22.6	(2.7)	27.5	(2.8)	19.2	(2.4)	3.7	(1.4)	3.2	(1.2)	27.6	(3.1)	66.4	(2.3)	1.9	(1.0)	15.0	(2.3)	24.5	(2.8)
	Germany	70.0	(2.6)	91.9	(1.6)	97.5	(1.0)	96.8	(1.2)	96.8 73.3	(1.2)	70.9	(3.2)	17.4	(3.2)	0.6	(3.5)	27.7 5.3	(3.2)	17.8	(2.5)	70.6	(3.4)	0.0	(3.1)
	Greece Hungary	60.3	(1.4)	62.0	(3.6)	26.7	(3.2)	25.6	(3.1)	60.7	(3.2)	46.0	(3.4)	2.0	(1.0)	1.3	(1.0)	11.7	(2.6)	10.4	(2.1)	6.2	(1.7)	9.5	(2.2)
	Iceland	2.6	(0.1)	6.9	(0.1)	70.3	(0.3)	68.4	(0.3)	62.4	(0.3)	21.6	(0.2)	18.2	(0.2)	17.4	(0.1)	19.5	(0.2)	1.1	(0.0)	5.5	(0.1)	7.7	(0.1)
	Ireland	23.1	(1.6)	20.8	(1.8)	12.2	(1.9)	11.5	(1.8)	24.7	(1.4)	12.4	(1.9)	6.7	(1.9)	3.0	(1.4)	5.3	(1.9)	0.7	(0.5)	0.8	(0.8)	7.6	(2.0)
	Israel	18.3	(2.6)	21.5	(3.0)	30.2	(3.8)	24.1	(3.3)	53.8	(3.6)	22.6	(3.5)	7.2	(1.9)	1.9	(1.0)	39.2	(3.0)	0.5	(0.5)	0.4	(0.4)	12.6	(2.6)
	Italy Japan	31.7 65.7	(3.5)	28.3 65.7	(3.1)	4.8 67.2	(1.2)	4.8 66.6	(1.2)	13.9 54.4	(2.4)	3.0 9.2	(1.2)	1.7	(0.0)	0.7	(0.3)	2.2 3.5	(0.9)	0.7 18.5	(0.5)	6.3	(1.0)	15.7 8.5	(2.8)
	Korea	61.3	(4.1)	62.6	(4.2)	51.2	(4.1)	35.7	(4.0)	65.3	(3.8)	11.1	(2.6)	13.7	(2.7)	13.8	(2.8)	18.9	(3.2)	3.7	(1.5)	8.5	(2.4)	16.5	(2.7)
	Latvia	4.3	(1.2)	5.0	(1.3)	24.5	(2.5)	22.7	(2.5)	33.2	(2.9)	21.9	(2.4)	8.0	(1.6)	11.4	(1.9)	28.4	(2.3)	7.8	(1.2)	4.9	(1.3)	10.7	(1.7)
	Luxembourg	4.4	(0.0)	6.5	(0.1)	6.5	(0.1)	6.5	(0.1)	7.1	(0.1)	0.0	С	0.0	С	0.0	С	0.0	С	9.2	(0.1)	7.7	(0.1)	5.7	(0.1)
	Mexico Netherlands	41.5	(3.0)	51.2	(3.1)	45.7	(3.1)	43.0	(3.3)	33.5	(3.4)	18.9	(2.6)	12.4	(2.2)	24.5	(3.0)	30.3	(2.8)	24.7	(2.7)	27.6	(2.7)	32.0	(2.7)
	New Zealand	m	c m	m	c m	m	c m	m	c m	m	(0.9) m	m	c m	m	c m	m	c m	m	m	m	c m	m	c m	m	c m
	Norway	18.2	(2.6)	42.1	(3.3)	69.7	(3.4)	76.0	(3.2)	46.3	(3.4)	12.3	(2.4)	32.7	(3.2)	23.7	(3.1)	48.3	(3.8)	3.7	(1.4)	10.9	(2.2)	16.4	(3.0)
	Poland	11.4	(2.3)	11.5	(2.3)	28.4	(3.5)	39.3	(3.9)	86.8	(2.5)	58.2	(3.7)	0.8	(0.7)	1.0	(0.7)	17.7	(3.0)	0.0	С	0.0	С	13.9	(3.0)
	Portugal	11.6	(2.0)	7.6		2.5	(0.5)	2.0	(0.2)	9.5		7.1	(1.9)	6.1	(1.6)	4.4	(1.1)	10.7	(2.1)	0.1	(0.0)	5.7	(1.2)	30.9	(2.8)
	Slovak Republic Slovenia	0.9	(0.5) C	0.9	(0.5)	2.1	(1.0)	4.0 0.3	(1.3)	41.5	(3.2)	20.5	(2.3)	0.0	(0.8) C	0.4	(0.4) C	8.8 1.8	(2.3)	0.6	(0.6) C	7.1	(0.8)	9.9	(1.0)
	Spain	64.2	(1.7)	64.0	(1.7)	90.3	(2.0)	88.3	(2.2)	21.6	(2.9)	6.9	(1.5)	17.7	(2.6)	46.3	(3.7)	72.6	(3.2)	6.1	(1.8)	71.4	(3.4)	57.8	(3.5)
	Sweden	4.7	(1.7)	34.6	(3.5)	44.6	(2.9)	39.3	(3.3)	43.7	(3.2)	9.3	(2.1)	1.3	(0.9)	23.8	(3.0)	25.7	(3.0)	1.1	(0.8)	1.9	(1.0)	9.0	(2.0)
	Switzerland	14.9	(2.6)	30.8	(3.2)	84.6	(2.3)	81.9	(2.3)	49.6	(4.3)	18.1	(3.3)	11.1	(2.2)	36.9	(3.8)	34.8	(3.7)	61.1	(2.5)	65.1	(3.6)	69.9	(3.6)
	Turkey United Kingdom	4.2	(2.9)	12.7	(2.9)	10.9	(1.1)	7.8	(0.8)	5.3 19.1	(1.5)	2.8	(1.4)	6.8	(1.9)	3.8 6.1	(1.9)	10.2 39.7	(2.4)	4.1 0.4	(1.9)	2.8 1.9	(1.8)	2.8	(2.0)
	United States	16.9	(2.7)	30.6	(3.2)	60.9	(4.2)	61.7	(4.2)	46.7	(3.9)	18.7	(3.1)	40.9	(3.9)	51.1	(4.0)	45.7	(3.2)	47.8	(3.6)	61.1	(3.9)	48.5	(3.8)
i	OECD average	24.7	(0.4)	31.9	(0.4)	33.5	(0.4)	33.2	(0.4)	39.2	(0.5)	15.7	(0.4)	10.2	(0.3)	14.3	(0.4)	21.9	(0.4)	7.6	(0.2)	15.5	(0.3)	17.6	(0.4)
SLS	Albania	38.6	(3.2)	33.4	(3.6)	12.8	(2.3)	8.8	(1.9)	30.7	(3.7)	11.5	(2.4)		(1.4)	6.3	(2.0)	24.8	(2.9)	0.9	(0.7)	9.0	(2.0)	16.0	(2.6)
Partners	Algeria	78.7	(3.4)	69.1	(3.8)	5.8	(2.1)	1.7	(1.0)	11.8	(2.7)	4.3	(1.8)		(1.7)	1.7	(1.0)	13.3	(3.3)	3.9	(1.6)	0.0	C (2. C)	1.5	(1.1)
Pa	Brazil B-S-J-G (China)	68.4 73.6	(2.3)	69.1 79.3	(2.1)	77.2 83.3	(2.0)	78.2 80.1	(2.0)	64.6 54.7	(2.1)	52.9 19.4	(2.4)	16.2	(2.2)	44.3 24.9	(2.6)	23.2 73.4	(2.4)	5.3 85.7	(1.1)	52.7 78.1	(2.6)	60.8 83.1	(2.5)
	Bulgaria	1.5	(0.9)	2.5	(1.2)	3.0	(1.4)	4.6	(1.6)	21.1	(3.0)	5.0	(1.7)		(1.6)	14.6	(2.9)	12.5	(2.8)	1.3	(0.9)	8.0	(2.0)	5.8	(1.8)
	CABA (Argentina)	37.6	(4.4)	39.9	(4.0)	78.3	(4.4)	79.9	(5.7)	45.2	(5.9)	29.5	(6.2)	15.9	(4.3)	21.7	(6.1)	27.7	(4.6)	4.5	(2.7)	57.7	(5.8)	68.5	(5.9)
	Colombia	69.1	(2.2)	69.2	(2.3)	12.4	(2.4)	7.3	(1.8)	9.1	(2.0)	3.6	(1.4)	3.3	(1.2)	6.0	(1.5)	9.7	(1.6)	3.3	(1.2)	6.5	(1.8)	19.5	(2.9)
	Costa Rica Croatia	11.0	(2.4)	4.3	(1.5)	0.9	(0.6)	0.8	(0.5)	4.9	(1.3)	1.8	(0.8)	6.1	(1.7)	7.5	(1.9)	5.2	(1.8)	1.9	(1.1)	2.7	(1.2)	1.8	(0.9)
	Cyprus*	16.7	(3.0) C	13.6	(2.6) C	0.0	C	0.0	(0.8) C	0.0	(4.1)	25.0	(3.6) C	9.1	(2.0) C	0.0	(0.2)	66.7 0.0	(3.6)	0.0	(1.0) C	0.0	(0.9) C	0.0	(1.3) c
	Dominican Republic	0.6	(0.6)	0.0	С	0.0	С	0.0	С	0.6	(0.6)	0.0	С	0.0	С	0.0	С	0.0	С	0.7	(0.7)	0.7	(0.7)	0.0	С
	FYROM	42.1	(0.2)	33.1	(0.1)	34.5	(0.1)	31.0	(0.1)	51.2	(0.2)	40.2	(0.2)	34.5	(0.1)	32.0	(0.2)	46.8	(0.2)	28.4	(0.1)	28.0	(0.1)	28.1	(0.1)
	Georgia	2.3 m	(0.8)	0.5 m	(0.3)	0.7 m	(0.5)	0.0 m	c m	0.0 m	C	0.6	(0.4) m	0.8 m	(0.6)	0.8 m	(0.6)	0.2 m	(0.2)	0.1 m	(0.1)	0.6 m	(0.4) m	0.6 m	(0.4)
	Hong Kong (China) Indonesia	40.4	m (2.7)	39.2	(2.8)	32.1	m (2.9)	33.1	(3.2)	9.7	m (2.4)	8.9	(2.0)	6.5	m (2.0)	13.4	m (2.4)	24.4	(3.1)	25.7	(2.9)	17.1	(2.6)	20.7	m (2.7)
	Jordan	14.2	(2.5)	11.0	(2.2)	9.3	(1.9)	9.0	(1.9)	8.9	(1.9)	10.6	(2.2)	15.0	(2.4)	19.2	(3.1)	6.9	(1.4)	10.5	(2.1)	8.3	(1.8)	9.3	(2.0)
	Kosovo	91.9	(0.8)	88.6	(0.8)	28.3	(1.1)	16.6	(1.0)	58.5	(1.4)	31.5	(1.4)	37.6	(1.2)	21.1	(1.3)	49.1	(1.3)	11.4	(1.0)	31.8	(1.5)	39.1	(1.4)
	Lebanon Lithuania		(2.2)	9.2	(2.0)	8.2	(1.9)	10.2	(2.3)	10.5		8.9	(2.2)	6.8	(1.7)		(1.8)	6.7	(1.8)	7.9	(2.1)	10.2	(2.4)	10.3	(2.2)
	Macao (China)	3.1	(1.1)	3.8	(0.0)	9.7	(1.8)	12.0 23.5	(1.8)	39.2 15.2		26.0 29.7	(0.0)	3.2	(0.0)	2.1 5.6	(0.7)	12.4 11.1	(1.9)	0.3 1.6	(0.0)	7.0	(0.2)	30.1	(0.8)
	Malta	11.1	(0.1)	11.1	(0.1)	4.2	(0.1)	12.1	(0.1)	28.0		18.5	(0.1)	13.6	(0.1)		(0.1)	50.7	(0.1)	2.0	(0.0)	4.8	(0.1)	9.6	(0.1)
	Moldova		(3.2)	18.7		14.5	(2.1)	9.1	(2.4)	32.6			(1.9)	2.9	(1.2)	28.9	(3.3)	12.8	(2.6)	7.9	(1.8)	7.5	(1.9)	15.1	(2.8)
	Montenegro	0.1	(0.1)	0.1	(0.1)	1.5	(0.0)	0.2	(0.1)	6.2		0.0	(1.0)	0.1	(0.1)	1.6	(0.1)	2.3	(0.2)	0.1	(0.1)	0.1	(0.1)	2.1	(0.2)
	Peru Qatar	65.7 18.6	(1.8)	62.9 19.8		17.2	(2.3)	8.1 7.3	(1.8)	17.8		8.7 15.5	(1.9)	3.8	(1.4)	21.4 17.7	(2.7)	8.6 17.5	(1.8)	15.3 10.7	(2.3)	18.9 14.6	(2.4)	18.6 16.5	(2.4)
	Romania	77.2	(3.3)	41.5	(3.5)	6.6	(1.8)	8.2	(2.0)	15.8	(3.2)	12.8	(2.8)		(2.4)	36.5	(3.6)	42.0	(3.6)	13.9	(2.9)	14.0	(3.0)	33.8	(3.6)
	Russia	1.2	(0.7)	1.0	(0.9)	45.4		50.2	(4.0)	76.6		38.8				10.3		10.4		9.6	(2.3)	26.2	(3.5)	19.4	
	Singapore	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Chinese Taipei Thailand	19.0	(2.2)	13.6	(2.3)	15.2 18.9	(2.3)	12.0 15.4	(2.2)	33.3 10.5	(2.3)	10.6 7.9	(1.9)	10.0	(2.0)	12.8 13.6	(2.1)	41.1 11.0	(3.0)	4.3 3.0	(1.5) (1.4)	6.4 4.6	(1.7)	9.1 6.5	(2.0)
	Trinidad and Tobago	3.8	(0.1)	4.9	(0.1)	1.3	(0.0)	1.1	(0.0)		(0.2)	1.7	(0.1)		(0.3)	19.2		47.0	(0.3)	2.9	(0.0)	4.7	(0.1)	6.1	
	Tunisia	20.3	(3.4)	14.6			(1.2)	2.1	(1.3)		(4.1)	16.9		10.6	(2.6)	13.9	(3.0)	37.7	(4.3)		(1.6)	3.4	(1.5)		(1.2)
	United Arab Emirates		(2.4)	28.0		17.7		14.9	(1.9)		(1.8)	14.1				29.4		32.6	(2.5)	23.7	(2.0)	26.1	(1.9)	24.1	(1.9)
	Uruguay Viet Nam	12.0 67.2		5.6 70.0	(1.7)	0.0 28.9	(3.7)	0.4 46.4	(0.4)	3.3	(1.2)		(1.3)	11.9	(2.1)		(2.6)	9.2 56.2	(2.0)	31.6 18.0	(2.6)	32.8 25.3	(2.9)	19.1	(2.3)
_										_		-													
	Argentina** Kazakhstan**	47.4 5.7	(3.0)	67.8 5.6	(2.4)	89.9 32.0	(2.3)	89.6 12.7	(2.4)	63.1 73.3	(3.6)	40.1 74.2	(3.9)	15.4 15.3		21.8 11.9	(3.5)	32.8 5.0	(3.3)	11.5 13.2	(2.6)	12.9	(3.5)		(2.3)
	Malaysia**						(1.3)	8.6	(2.3)		(2.1)		(2.0)									7.4			(3.7)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** http://dx.doi.org/10.1787/888933436498



[Part 5/5]

Table II.4.1 Responsibilities for school governance

OEC		Selecting					in scho								1				,					
OEC		teachers for hire		ring chers	Establ teacl star sala	hers' ting	Detern teach sala incre	ners' ary		ılating chool lget		n the	Establi stud discip poli	lent linary	Establ stud assess poli	lent ment	Approstuder admito sch	nts for ssion the	Choo wh texth	ich ooks	Deterr cou		cours	iding nich ses are ered
OEC		% S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
OE	Australia Austria	0.2 (0.2)	1.4	(0.5)	3.4	(0.9)	3.5	(0.9)	1.8	(0.6)	0.1	(0.1)	0.6	(0.3)	6.0	(0.9)	0.2	(0.2)	0.3	(0.0)	25.1	(1.5)	7.0	(1.1)
	Austria Belgium	8.0 (1.8) 9.8 (1.8)	10.9	(2.2)	63.9 91.2	(3.1)	65.7 90.8	(3.3)	41.5 16.3	(3.0)	3.9	(0.9)	2.6	(0.4)	32.2 12.5	(3.0)	3.8	(1.1)	5.6 1.7	(1.6)	52.4 44.5	(3.9)	46.7 36.1	(3.1)
	Canada	2.1 (0.8)	11.2	(1.5)	67.2	(2.7)	72.5	(2.4)	16.0	(1.9)	3.1	(0.9)	20.9	(2.2)	44.9	(2.5)	9.8	(1.6)	33.5	(2.4)	77.0	(2.1)	29.2	(2.4)
	Chile	0.0 с	0.0	С	25.7	(3.4)	29.1	(3.4)	2.5	(1.4)	3.9	(1.6)	13.0	(2.6)	22.0	(3.0)	17.5	(3.2)	24.4	(3.4)	57.8	(3.7)	19.0	
	Czech Republic	0.0 c	0.0	C	29.9	(2.7)	34.7	(2.9)	8.3	(1.7)	0.5	(0.4)		(1.3)		(1.0)	2.2	(1.1)	6.0	(1.4)	19.8	(2.2)	10.6	
	Denmark Estonia	0.0 c	0.0	(0.0)	43.6 76.9	(3.2)	47.8 54.9	(3.4)	1.3 8.6	(0.8)	0.2	(0.1)	3.0	(0.4)	29.8 13.1	(3.1)	3.2	(1.4)	0.0 8.0	(1.4)	27.9 5.9	(3.4)	43.3	(3.1)
	Finland	0.0 c	0.0	(O.O)	58.0	(3.7)	51.0	(3.8)	0.3	(0.3)	0.0	(O. 1)		(2.1)	22.2	(3.4)	1.7	(1.1)	0.0	C	37.5	(3.6)	14.1	(2.8)
	France	47.0 (2.8)	59.7		83.1	(2.4)	81.7	(2.2)	13.5	(2.2)	0.9	(0.7)		(1.2)	34.8	(2.8)	2.3	(1.0)	2.7	(1.2)	47.7	(3.2)	42.4	(3.2)
	Germany	m m	04.0	(O, O)	97.2	(1.1)	m oc F	(1.4)	12.0	(2.7)	m	(1.7)	11.7	(2 E)	72.1	(2, 2)	1 F 0	(2,0)	95.9	(1.2)	m oo E	(O. 7)	07.0	(1.1)
	Greece Hungary	94.3 (1.1)	94.9		64.0	(1.1)	96.5 62.8	(1.4)	13.9 11.5	(2.7)	5.3 3.9	(1.7)	11.7 3.3	(2.5)	73.1 5.9	(3.2)	15.8	(2.9)	17.1	(1.3)	98.5 52.9	(0.7)	97.0 54.2	
	Iceland	0.0 c	0.0	C	22.6	(0.2)	24.5	(0.2)	0.0	(2.5) C	0.0	C	12.0	(0.1)	35.5	(0.2)	2.0	(0.1)	9.1	(0.1)	30.1	(0.3)	57.7	(0.2)
	Ireland	6.7 (2.0)	26.2	(3.8)	88.3	(2.0)	86.4	(2.4)	18.8	(2.6)	7.5	(2.2)	7.8	(2.0)	12.9	(2.8)	5.4	(1.8)	0.0	С	56.0	(4.0)	14.7	(3.0)
	Israel	16.9 (2.4)	25.7	(3.3)	73.6	(3.6)	71.8	(3.8)	41.5	(3.9)	12.1	(2.5)	15.2	(2.7)	20.0	(2.9)	9.5	(2.1)	42.0	(3.7)	38.4	(3.7)	50.6	(3.6)
	Italy	68.0 (3.0)	64.4	(3.0)	88.1	(2.2)	85.8	(2.3)	76.8	(2.8)	8.1	(2.6)	0.0	(0.0)	5.9	(1.8)	1.3	(0.9)	0.2	(0.2)	34.0	(3.3)	27.8	(3.7)
	Japan Korea	0.0 c 21.9 (3.6)	0.0	(3.8)	1.6	(0.9)	70.3	(3.9)	11.8	(2.7)	0.0	(1.2)		(2.0)	0.7	(0.7)	0.0	(1.5)	1.4 3.2	(0.8)	1.7 5.1	(0.9)	0.0 6.4	(2.0)
	Latvia	0.9 (0.6)	0.3	(0.3)	66.6	(2.9)	48.4	(2.8)	8.9	(1.5)	2.8	(1.0)		(1.4)	25.4	(2.4)	21.2	(2.6)	24.7	(2.0)	72.8	(2.3)	33.4	(2.7)
	Luxembourg	80.6 (0.1)	83.9	(0.1)	84.1	(0.1)	82.4	(0.1)	62.3	(0.1)	11.2	(0.1)	28.0	(0.1)	84.1	(0.1)	32.8	(0.1)	88.88	(0.0)	83.3	(0.1)	67.4	(0.1)
	Mexico	37.7 (2.8)	30.5		41.5	(2.7)	44.4	(3.1)	18.1	(2.6)	5.6	(1.6)	3.2	(0.9)	18.3	(2.1)	17.1	(2.4)	17.4	(2.3)	58.6	(2.8)	61.6	
	Netherlands	0.0 c 0.7 (0.6)	7.5	(2.0)	23.2 80.7	(3.7)	26.2	(4.1)	1.1 5.7	(0.9)	1.8	(0.9)	0.0	(2.8)	25.4	(4.1)	3.7	(1.7)	0.0 2.4	(1.4)	7.6	(2.2)	14.1	(3.3)
	New Zealand Norway	0.7 (0.6) 0.0 c	0.0	(2.0) C	29.2	(3.2)	76.1 29.6	(3.3)	0.0	(1.9) C	0.0	(U.9)	11.0	(2.7)	51.2	(4.1)	19.5	(3.0)	1.1	(1.4)	54.2	(3.8)	5.0 54.4	(1.9)
	Poland	2.5 (1.2)	2.5		78.4	(3.3)	84.5	(3.0)	4.3	(1.6)	2.1	(1.1)	2.0	(1.1)	5.8	(1.9)	2.9	(1.3)	6.3	(2.0)	2.4	(1.2)	49.9	(3.7)
	Portugal	68.3 (2.9)	84.6	(1.7)	92.4	(1.5)	92.4	(1.4)	37.9	(3.5)	17.2	(2.6)	39.9	(3.3)	55.9	(3.5)	34.6	(3.4)	6.5	(1.7)	67.5	(3.3)	44.0	(3.2)
	Slovak Republic	0.0 c	0.0	C	56.3	(3.3)	55.7	(3.5)	18.7	(2.7)	5.3	(1.4)	1.7	(0.8)	13.2	(2.6)	0.9	(0.6)	19.4	(2.5)	42.9	(3.4)	34.7	(3.2)
	Slovenia Spain	11.5 (0.2) 5.7 (1.8)	23.1 5.7	(0.6)	91.8	(0.2)	86.6 16.2	(0.2)	1.7	(0.4)	13.9	(0.4)	36.7 4.5	(0.4)	53.4 14.5	(0.4)	5.8	(0.6)	32.4 0.9	(0.5)	73.3	(0.3)	76.1 13.6	(0.4)
	Sweden	0.5 (0.5)	0.5	(0.5)	1.6	(0.9)	2.1	(1.1)	0.5	(0.5)	0.0	(U.U)	1.0	(0.7)	16.0	(2.5)	15.0	(2.7)	1.4	(0.8)	45.3	(3.8)	45.2	(3.4)
	Switzerland	0.0 c	0.0	C	1.1	(0.8)	1.7	(1.0)	0.6	(0.6)	0.0	С	0.0	C	3.0	(1.2)	1.0	(0.7)	2.0	(1.0)	18.4	(3.1)	14.8	(2.9)
	Turkey	91.2 (2.3)	88.8		94.0	(2.2)	94.4	(2.1)	46.7	(3.9)	21.9	(3.3)	88.1	(2.8)	91.8	(2.3)	41.6	(4.5)	76.0	(3.2)	95.9	(1.1)	81.2	(3.3)
	United Kingdom	0.1 (0.1)	3.9		17.4	(2.2)	12.1	(1.3)	9.5	(1.9)	0.4	(0.3)		(1.1)		(1.5)	4.9	(1.5)	1.2	(0.9)	18.2	(2.9)	7.8	
	United States	0.0 c	0.0	(0.3)	0.9	(0.6)	0.9	(0.6)	1.8	(1.0)	0.5	(0.5)		(1.6)	13.7 25.2	(2.8)	10.9	(1.3)	4.8	(1.5)	10.0	(2.3)	5.1	(1.9)
	OECD average	16.9 (0.3)	19.7	(0.3)	53.1	(0.4)	32.3	(0.4)	16.7	(0.3)	4.1	(0.2)	10.5	(0.3)	23.2	(0.4)	10.9	(0.3)	15.8	(0.3)	41.4	(0.5)	34.5	(0.5)
ers	Albania	4.7 (1.2)	4.5	(1.9)	81.6	(2.4)	80.9	(2.4)	12.3	(2.6)	3.3	(1.2)	32.7	(3.1)	54.9	(3.5)	14.6	(2.4)	4.9	(1.3)	31.6	(3.5)	23.2	
	Algeria Brazil	7.3 (1.9) 2.7 (1.0)	11.9	(2.5)	92.4	(2.0)	94.5 15.5	(1.6)	21.6 15.2	(3.2)	4.0 9.7	(1.2)	14.0	(3.2)	30.4 8.5	(3.5)	7.3	(1.4)	66.8	(3.2)	82.1	(3.0)	73.3 12.9	(3.0)
	B-S-J-G (China)	1.0 (0.4)	2.8		12.5	(2.5)	13.8	(2.6)	1.3	(0.8)	0.9	(0.5)	7.0	(2.1)	6.6	(2.1)	0.5	(0.3)	11.6	(2.2)	23.7	(3.1)	30.2	(3.9)
	Bulgaria	0.7 (0.5)	2.5		37.0	(3.6)	31.5	(3.7)	47.2	(3.9)		(1.8)	20.6		50.7		5.1	(1.5)	18.6		82.2	(3.3)	77.8	
	CABA (Argentina)	1.7 (1.2)	1.3	(0.9)	27.1	(6.8)	34.1	(7.6)	9.0	(2.5)	9.8	(3.6)	6.2	(1.5)	5.3	(3.4)	0.9	(0.9)	0.8	(0.8)	22.1	(5.2)	25.2	
	Colombia	10.5 (2.1)	9.3		70.8	(2.8)	75.3	(2.6)	27.7	(3.5)	0.4	(0.4)		(1.2)	10.4		2.1	(1.0)	2.9	(1.0)	19.3	(3.0)	12.1	(2.5)
	Costa Rica Croatia	86.1 (2.2) 8.5 (2.2)	86.5 22.5		89.2 99.3	(2.1)	88.7 98.2	(2.4)	22.0 31.4	(3.4)	3.4 6.9	(1.3)	34.5	(3.2)	59.6 72.1	(3.4)	11.0 83.8	(2.2)	23.1 48.7	(3.1)	86.8 90.8	(2.6)	88.7 96.0	
	Cyprus*	83.2 (0.1)	83.2	(0.1)	83.2	(0.1)	81.4	(0.0)	63.5	(0.1)	47.8	(0.1)	51.3	(0.1)		(0.2)	77.0	(0.1)	83.6	(0.1)	84.4	(0.1)	81.9	(0.1)
	Dominican Republic	75.1 (2.6)	75.7		80.8	(1.7)	80.4	(1.8)	22.6	(3.5)	29.6	(3.2)		(3.4)	53.8		9.5	(2.4)	80.9		87.3	(2.3)	89.4	
	FYROM	40.0 (0.2)	44.4	(0.2)	92.7	(0.1)	96.1	(0.0)	44.5	(0.2)	33.5	(0.2)	46.2	(0.2)	65.7	(0.1)	63.8	(0.2)	76.5	(0.1)	87.0	(0.1)	85.7	(0.1)
	Georgia	1.3 (0.7) 8.2 (2.1)	2.7	(1.0)	82.4 65.6	(2.2)	82.7 69.2	(2.3)	9.3	(0.9)	3.6	(0.8)	15.1	(2.6)	53.5	(3.4)	18.4	(2.5)	9.0 5.2	(1.8)	54.7 12.9	(3.1)	9.2	(3.1)
	Hong Kong (China) Indonesia	24.5 (3.1)			29.4		26.2	(2.9)	1.0	(0.7)		(1.0)		(0.4)		(1.3)	2.1				26.4		_	(2.4)
	Jordan	72.3 (2.7)			77.9	(2.2)	76.9	(2.2)	20.0	(2.7)	11.8	(2.3)		(3.8)	50.7	(3.6)		(2.1)		(2.6)	81.6	(2.4)		
	Kosovo	5.4 (0.7)	14.0		83.9	(1.1)	89.4	(0.9)	13.1	(1.0)		(0.7)	37.0		44.2		18.1	(0.5)		(1.0)	48.8	(1.3)	54.2	
	Lebanon	34.0 (2.3)	35.5		55.9	(2.8)	56.9	(2.7)	15.3	(2.5)	11.6	(2.1)		(2.7)	20.6	(2.2)	14.2	(2.5)	40.4	(2.8)	50.8	(3.2)	37.7	
	Lithuania Macao (China)	0.1 (0.1)	0.0		38.2	(2.7)	35.5 6.9	(2.9)	19.4	(2.3)	6.2 0.1	(1.2)	1.1	(1.1)	10.8	(1.7)	1.2	(0.2)	3.8	(0.0)	32.6	(2.8)	9.2	
	Malta	56.5 (0.1)	56.5		89.6	(0.0)	82.6	(0.1)	37.5	(0.1)	12.0		8.3		27.1	(0.1)	34.5	(0.0)	53.2		78.0	(0.1)		
	Moldova	5.8 (1.1)	2.4		61.9	(3.4)	76.9	(3.1)	38.6	(3.7)	3.2	(1.2)	7.6	(2.0)	55.5	(3.6)	19.6	(2.7)	73.6	(2.9)	64.7	(3.2)	34.6	
	Montenegro	26.8 (0.3)	28.6		97.3	(0.1)	70.1	(0.4)	54.6	(0.3)	11.8	(0.2)	59.2	(0.5)	67.5	(0.5)	89.1	(0.3)	90.8	(0.1)	83.6	(0.2)	76.4	
	Peru	14.0 (2.2)	22.6		66.8	(2.0)	72.1	(1.5)	14.9	(2.4)	6.2	(1.7)		(1.5)	27.0	(2.8)	8.9	(1.9)	54.2	(2.6)	49.0	(2.9)	58.5	
	Qatar Romania	22.6 (0.1) 20.6 (3.3)	18.6 15.3		52.7 85.0	(0.1)	53.8 86.5	(0.1)	46.7 36.9	(0.1)	23.0 13.9	(0.1)	48.5 13.0	(0.1)	58.4 46.3	(0.1)	51.8 58.2	(0.1)	58.6 21.9	(0.1)	66.1 41.7	(0.1)	48.3 28.9	
	Russia	0.0 c	0.0	(J.0)	23.1	(3.6)	32.4	(4.2)	14.6	(2.9)	5.1	(2.0)		(0.7)		(2.6)		(1.0)	29.3		48.7		20.6	
	Singapore	80.4 (0.6)	81.3	(0.6)	87.1	(0.6)	84.7	(0.6)	38.0	(0.3)	7.9	(0.1)	20.6	(0.2)	31.0	(0.2)	51.3	(0.4)	29.5	(0.2)	56.7	(0.4)	31.8	(0.3)
	Chinese Taipei	4.0 (1.1)	8.5		68.9	(2.7)	68.7	(2.7)	13.7	(2.6)	1.7	(0.9)	14.7		17.3	(2.9)	29.6		5.2	(1.7)	12.1	(2.4)	14.8	
	Thailand Trinidad and Tobago	10.3 (2.0) 72.0 (0.1)		(1.9)	40.1	(3.3)	15.4 89.5	(2.5)	15.9	(2.4)	8.7 17.4	(2.2)		(2.5)		(2.7)	8.1	(2.1)		(1.8)	7.1 82.2	(2.1)	7.2 54.0	
	Tunisia	80.8 (3.6)	91.8 82.5		90.1	(0.1)	95.2	(1.7)	39.2 53.3	(3.9)	17.4	(3.3)	56.8 26.4		61.2 77.0	(3.7)	66.9 7.1	(2.4)	47.8 93.7		88.8	(2.3)	96.4	
	United Arab Emirates	27.1 (1.4)	28.5		30.7	(1.6)	29.7	(1.7)	19.3	(1.3)		(1.8)	29.2		31.7	(1.9)	16.8	(1.8)	43.7	(2.1)	47.4	(2.2)	44.8	
	Uruguay	73.1 (1.9)	79.8	(1.7)	82.6	(1.3)	81.7	(1.8)	77.0	(1.8)	45.3	(2.6)	43.9	(2.8)	55.9	(3.0)	43.0	(2.7)	48.1	(3.1)	71.7	(2.7)	72.2	(2.6)
	Viet Nam	0.0 с	1.3	(0.9)	64.2	(3.8)	6.5	(1.8)	2.5	(1.2)	1.2	(0.8)	1.1	(0.7)	50.7	(4.1)	2.3	(1.1)	49.2	(4.2)	40.6	(3.4)	5.6	(1.4)
	Argentina**	0.7 (0.6)	1.4			(2.9)	15.5	(2.9)	8.0	(2.0)		(1.5)	2.0	(0.8)	3.6	(1.5)	3.7	(1.2)	4.0	(1.4)	17.2		19.7	
	Kazakhstan** Malaysia**	0.1 (0.0) 69.9 (3.5)	0.6		51.2 93.0		81.8 86.5	(2.3)	17.1	(2.5)	16.2		13.0		37.9 70.4	(3.8)		(1.2)	52.2	(3.4)	61.1 86.9			(2.9)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** http://dx.doi.org/10.1787/888933436498



[Part 1/3]

Table II.4.5 Index of school autonomy¹, science performance and school characteristics

Australia		<u> </u>	Is' repor	udents					By sch	ool socio-	economic	profile ²			
New Note		A				D-44		Cd		Thind .				Top - l	ottom
Australia							•		•		•				S.E.
Austria	Australia														(2.1
Carolade 6,3 10,9 204 10,9 10,7 10,7 10,9 10,9 10,1 10,0 10,1 10,0 10,1 10,0															(3.6
Chie 80 0 1.6 221 220 729 399 708 550 822 3.6 955 2.3 206 94 120	Belgium	69.1	(1.2)	21.3	(1.5)		(2.0)	68.3	(3.4)	70.3	(2.8)	70.8	(2.2)	3.7	(3.0
Ceche Republic 95.5 0.44 10.7 11.4 96.3 0.99 95.1 11.2 95.8 11.2 95.1 0.80 12.2 10.1 Istonia 83.1 0.1 14.7 14.7 14.8 96.3 0.99 95.1 11.2 95.8 11.2 95.8 10.2 95.8 10.2 95.8 10.2 Istonia 83.2 0.7 14.9 0.7 14.9 0.7 14.8 96.3 0.2 18.8		65.3	(0.9)	20.4	(0.9)	65.7	(1.7)		(2.1)		(1.9)	65.1	(3.2)		(3.8)
Demmark 83.3 0.00 14.7 0.79 88.03 2.20 81.3 2.90 83.1 2.50 67.8 0.18 7.4 15 15 15 15 15 15 15 1															(4.3
Islanda	Czech Republic		(0.4)	10.7	(1.4)	96.3	(0.9)	95.1	(1.2)	95.8	(1.2)	95.1	(0.8)	-1.2	(1.2
Finland Finlan															(3.1
France (Sap. 1.2) 2.00 (1.2) 33.6 (2.8) 61.0 (2.6) 88.7 (2.4) 60.3 (2.9) 66.6 3 Germany 62.5 (6.8) 81.2 (2.0) 90.9 (6.2) 31.7 (2.3) 62.3 (2.3) 62.3 (2.9) 66.6 3 Germany 62.5 (3.0) 81.2 (2.0) 91.6 (3.1) 81.2 (2.1) 81.6 (2.1) 81.															(2.8
Germany Ger															(4.1
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United Arab Emirates 59.0 (1.0) 41.0 (0.6) 40.5 (4.0) 40.3 (4.0) 65.3 (3.5) 90.5 (2.6) 50.0 (5 Uruguay 41.7 (1.2) 29.8 (0.7) 32.7 (3.6) 31.8 (2.7) 31.4 (3.1) 70.7 (2.8) 38.0 (4 Viet Nam 45.7 (2.0) 25.9 (1.2) 36.9 (4.0) 42.0 (3.9) 54.3 (5.3) 49.5 (4.6) 12.6 (6 Argentina** 51.4 (1.1) 19.0 (0.8) 45.0 (2.6) 48.0 (3.2) 50.9 (3.0) 62.0 (2.8) 17.1 (3 Kazakhstan** 59.2 (1.3) 18.1 (0.8) 58.2 (2.2) 61.0 (2.6) 58.6 (3.5) 58.9 (2.6) 0.7 (3															
Uruguay 41.7 (1.2) 29.8 (0.7) 32.7 (3.6) 31.8 (2.7) 31.4 (3.1) 70.7 (2.8) 38.0 (4 Viet Nam 45.7 (2.0) 25.9 (1.2) 36.9 (4.0) 42.0 (3.9) 54.3 (5.3) 49.5 (4.6) 12.6 (6 Argentina** 51.4 (1.1) 19.0 (0.8) 45.0 (2.6) 48.0 (3.2) 50.9 (3.0) 62.0 (2.8) 17.1 (3 Kazakhstan** 59.2 (1.3) 18.1 (0.8) 58.2 (2.2) 61.0 (2.6) 58.6 (3.5) 58.9 (2.6) 0.7 (3															
Viet Nam 45.7 (2.0) 25.9 (1.2) 36.9 (4.0) 42.0 (3.9) 54.3 (5.3) 49.5 (4.6) 12.6 (6 Argentina** 51.4 (1.1) 19.0 (0.8) 45.0 (2.6) 48.0 (3.2) 50.9 (3.0) 62.0 (2.8) 17.1 (3 Kazakhstan** 59.2 (1.3) 18.1 (0.8) 58.2 (2.2) 61.0 (2.6) 58.6 (3.5) 58.9 (2.6) 0.7 (3															
Argentina** 51.4 (1.1) 19.0 (0.8) 45.0 (2.6) 48.0 (3.2) 50.9 (3.0) 62.0 (2.8) 17.1 (3.8) Kazakhstan** 59.2 (1.3) 18.1 (0.8) 58.2 (2.2) 61.0 (2.6) 58.6 (3.5) 58.9 (2.6) 0.7 (3.0)															(6.
Kazakhstan** 59.2 (1.3) 18.1 (0.8) 58.2 (2.2) 61.0 (2.6) 58.6 (3.5) 58.9 (2.6) 0.7 (3															
															(3.
Malaysia** 40.9 (1.4) 24.8 (1.0) 39.9 (2.6) 34.6 (4.7) 43.8 (4.3) 45.1 (3.5) 5.2 (4.7)	Kazakhstan** Malaysia**	59.2 40.9		18.1 24.8					(2.6)					0.7 5.2	(3.

^{1.} The index of school autonomy is calculated as the percentage of tasks for which the principal, the teachers or the school governing board have considerable responsibility.

2. The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS).

Note: Values that are statistically significant are indicated in bold (see Annex A3).

*See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 2/3]

Table II.4.5 Index of school autonomy¹, science performance and school characteristics

					By schoo	location						By type	of school		
		(few	a or village er than	(3 0	wn 00 to		ity ver	City w	uual auaa	D.,	blic	Duit	vate	Duivata	nubl
		%	people) S.E.	100 000	S.E.	%	S.E.	% dif.	ural area S.E.	%	S.E.	%	S.E.	Private % dif.	- pubi S.E
	Australia	72.5	(3.6)	76.4	(1.3)	77.9	(0.8)	5.4	(3.6)	70.6	(0.8)	87.1	(0.8)	16.6	(1.
ľ	Austria	61.3	(3.3)	58.3	(1.8)	58.8	(1.9)	-2.5	(3.8)	58.6	(1.4)	60.3	(3.4)	1.7	(3.2
	Belgium	79.1	(2.3)	71.7	(1.6)	64.2	(2.5)	-14.9	(3.8)	W	W	W	W	W	,
ı	Canada	65.2	(2.7)	67.6	(1.5)	63.7	(1.4)	-1.5	(3.0)	64.0	(0.8)	78.4	(5.9)	14.4	(5.9
	Chile	67.8	(9.3)	75.3	(2.8)	84.0	(1.7)	16.2	(9.5)	61.7	(2.8)	92.1	(1.3)	30.4	(3.
	Czech Republic	96.9 84.6	(0.8)	95.9	(0.6)	96.1	(0.8)	-0.8	(1.2)	95.6 80.6	(0.4)	98.8	(0.6)	3.2 11.3	(0.
	Denmark Estonia	90.1	(1.7)	82.4 88.3	(1.6)	84.5 87.3	(2.0)	0.0 -2.8	(2.7)	87.7	(1.4)	91.9 96.8	(1.5)	9.1	(2.
	Finland	79.2	(2.4)	72.7	(1.6)	78.7	(2.2)	-0.5	(3.0)	74.7	(1.2)	98.8	(0.9)	24.2	(1.
	France	71.7	(3.4)	57.4	(1.6)	59.5	(2.3)	-12.2	(4.0)	54.8	(1.3)	75.3	(1.9)	20.5	(2.
	Germany	57.7	(3.1)	61.6	(1.1)	66.0	(1.5)	8.3	(3.7)	62.1	(0.7)	72.0	(3.4)	10.0	(3.
	Greece	29.9	(2.7)	25.3	(1.4)	26.9	(1.6)	-3.0	(3.2)	24.1	(0.7)	74.4	(4.8)	50.3	(4
	Hungary	54.6	(8.0)	63.9	(1.8)	63.1	(2.4)	8.6	(9.0)	58.6	(1.4)	86.3	(2.1)	27.7	(2
	Iceland	83.9	(0.2)	81.1	(0.1)	80.5	(0.3)	-3.5	(0.3)	81.5	(0.1)	m	m	m	
	Ireland	73.4	(2.7)	73.5	(1.3)	79.5	(2.0)	6.2	(3.7)	66.2	(1.5)	81.4	(1.1)	15.1	(1.
	Israel Italy	75.1 44.9	(4.6) (14.9)	74.1 55.6	(2.3)	77.3 62.6	(1.8)	2.3 17.7	(5.0) (15.2)	m 56.5	m (1.1)	89.3	m (3.3)	32.8	(3.
	Japan	m	(14.9) m	66.2	(2.3)	76.0	(1.2)	m	(13.2) m	61.5	(1.1)	98.6	(1.5)	37.2	(1.
	Korea	m	m	67.0	(2.9)	66.3	(1.1)	m	m	60.9	(0.9)	76.6	(1.9)	15.7	(2.
	Latvia	84.0	(1.6)	84.2	(1.2)	85.1	(1.7)	1.1	(2.5)	84.4	(0.8)	87.4	(6.2)	3.0	(6.
	Luxembourg	m	m	66.4	(0.0)	69.3	(0.0)	m	m	64.7	(0.0)	83.6	(0.1)	18.9	(0
	Mexico	34.3	(3.0)	43.4	(2.2)	51.4	(2.3)	17.1	(4.0)	39.1	(1.3)	89.5	(2.6)	50.4	(2
	Netherlands	m	m (2. F)	92.0	(2.8)	91.9	(3.3)	m	m	93.3	(2.4)	95.1	(1.7)	1.8	(1
	New Zealand	83.9	(3.5)	85.1	(2.2)	84.8	(1.0)	0.8	(3.7)	84.0	(1.2)	97.2	(2.4)	13.2	(2
	Norway Poland	73.3 80.6	(2.0)	72.9 79.0	(1.6)	73.4 76.3	(2.5)	0.1 -4.4	(3.6)	72.9 78.3	(1.1)	92.0 90.2	(4.4) (4.8)	19.1 11.9	(4
	Portugal	64.4	(2.5)	61.3	(1.2)	64.4	(3.4)	0.0	(4.2)	60.3	(1.0)	90.2	(3.7)	30.6	(4
	Slovak Republic	88.3	(2.3)	88.3	(1.0)	88.9	(1.6)	0.6	(2.9)	87.4	(0.9)	95.4	(1.3)	8.0	(1.
	Slovenia	74.4	(1.2)	76.5	(0.3)	78.2	(0.1)	3.8	(1.2)	76.5	(0.2)	77.0	(0.1)	0.5	(0.
	Spain	51.3	(3.4)	53.9	(1.4)	64.8	(2.0)	13.5	(4.2)	49.4	(1.3)	75.2	(1.5)	25.8	(2
	Sweden	82.9	(2.6)	88.1	(1.2)	88.0	(1.8)	5.1	(3.0)	87.0	(1.1)	90.6	(1.7)	3.5	(2
	Switzerland	75.4	(3.2)	68.4	(1.7)	71.3	(3.9)	-4.1	(5.3)	68.7	(1.5)	86.1	(8.4)	17.4	(8
	Turkey	27.1	(4.5)	27.2	(2.3)	30.3	(3.1)	3.3	(5.5)	26.1	(1.4)	89.4	(6.3)	63.3	(6
	United Kingdom	96.0	(1.3)	91.8	(1.6)	94.6	(0.8)	-1.4	(1.5)	93.4	(0.8)	99.6	(0.2)	6.2	(0.
i	United States	83.7	(4.1)	82.1	(2.3)	76.7	(3.4)	-7.0	(5.3)	79.4	(1.8)	95.6	(2.9)	16.2	(3.
	OECD average	70.6	(0.8)	70.7	(0.3)	72.6	(0.3)	1.7	(0.9)	68.1	(0.2)	86.7	(0.6)	19.0	(0.
	Albania Algeria	64.8 38.9	(2.3)	63.3 45.3	(2.4)	71.1 35.2	(3.2)	6.3 -3.8	(3.9) (5.0)	62.2 43.0	(1.3)	95.6 m	(2.3) m	33.3 m	(2.
	Brazil	49.6	(3.5)	47.3	(1.3)	52.5	(2.3)	2.9	(4.0)	42.7	(0.9)	95.7	(1.2)	53.0	(1.
	B-S-J-G (China)	35.7	(6.3)	46.5	(2.3)	62.8	(2.8)	27.2	(7.2)	48.6	(1.7)	78.6	(5.6)	30.0	(5
	Bulgaria	85.2	(4.1)	82.1	(1.7)	79.5	(2.4)	-5.7	(4.8)	82.1	(1.1)	m	m	m	
	CABA (Argentina)	m	m	m	m	63.2	(2.4)	m	m	47.4	(3.7)	79.5	(3.0)	32.1	(5
	Colombia	61.8	(1.9)	64.6	(1.7)	69.9	(1.6)	8.0	(2.6)	59.6	(0.7)	89.9	(3.7)	30.3	(3
	Costa Rica	48.8	(2.8)	51.4	(1.8)	61.1	(4.6)	12.3	(5.0)	45.8	(1.1)	94.6	(1.7)	48.8	(2
	Croatia	m	m	65.0	(1.6)	61.4	(1.8)	m	m	63.4	(1.2)	68.6	(5.3)	5.2	(5.
	Cyprus*	30.5	(0.2)	29.6	(0.1)	41.1	(0.2)	10.6	(0.3)	22.7 39.7	(0.0)	90.2	(0.3)	67.5	(0
	Dominican Republic FYROM	37.2 68.8	(2.6)	47.1 70.9	(2.0)	60.2 74.2	(3.4)	23.0 5.4	(4.0)	70.7	(1.2)	80.6 100.0	(2.4) C	40.9 29.3	(2
	Georgia	75.1	(1.3)	72.8	(2.1)	78.6	(1.9)	3.5	(2.3)	74.4	(1.0)	88.9	(3.9)	14.6	(4.
	Hong Kong (China)	m	m	m	m	84.0	(2.3)	m	m	65.2	(12.2)	86.7	(2.1)	21.5	(12
	Indonesia	83.0	(2.2)	81.6	(1.8)	83.2	(3.6)	0.2	(4.5)	71.3	(1.5)	97.8	(0.6)	26.6	(1.
	Jordan	35.8	(4.8)	32.7	(1.9)	39.9	(2.6)	4.2	(5.9)	28.3	(1.3)	62.9	(3.6)	34.6	(3.
	Kosovo	47.9	(2.7)	41.2	(0.6)	48.6	(1.1)	0.7	(3.0)	42.6	(0.6)	97.0	(0.8)	54.4	(1.
	Lebanon	63.7	(5.8)	73.4	(1.9)	79.2	(2.8)	15.5	(6.7)	51.9	(2.3)	93.7	(0.9)	41.8	(2
	Lithuania Macao (China)	91.1 m	(1.5) m	92.5 m	(1.1) m	89.5 98.7	(0.0)	-1.6 m	(1.7) m	91.0 m	(0.7) m	93.3 99.8	(2.9)	2.3 m	(3
	Malta	59.0	(0.1)	52.2	(0.1)	90.7 m	(0.0) m	m	m	36.8	(0.1)	76.1	(0.0)	39.3	(0.
	Moldova	71.7	(1.6)	70.5	(2.6)	68.8	(3.1)	-2.9	(3.6)	70.8	(1.3)	m	(0.0) m	m	(0)
	Montenegro	m	m	59.5	(0.1)	54.4	(0.1)	m	m	57.9	(0.1)	m	m	m	
	Peru	58.4	(2.2)	64.5	(1.8)	72.6	(5.6)	14.3	(6.3)	54.8	(1.2)	85.3	(3.4)	30.4	(3
		44.3	(0.2)	56.7	(0.1)	71.3	(0.1)	27.0	(0.2)	42.8	(0.1)	93.7	(0.1)	50.9	(0
	Qatar		(2.0)	66.2	(1.6)	71.2	(2.2)	0.2	(3.0)	68.1	(1.2)	m	m	m	
	Qatar Romania	70.9	(1.0)	80.7	(2.2)	84.4	(1.4)	10.2	(2.1)	81.5	(1.2)	m	(E 9)	m 14.1	(5
	Qatar Romania Russia	70.9 74.2	(1.8)			74.7	(0.7)	m m	m m	73.2 66.9	(0.0)	87.3 91.3	(5.8)	14.1 24.4	(5.
	Qatar Romania Russia Singapore	70.9 74.2 m	m	m	m (2.1)	75 O			111						(5.
	Qatar Romania Russia Singapore Chinese Taipei	70.9 74.2 m m	m m	m 74.1	(2.1)	75.0 91.3		-1 7	(3.6)	897	(19)	94/	(49)	5.5	
	Qatar Romania Russia Singapore Chinese Taipei Thailand	70.9 74.2 m m 93.0	m m (1.5)	m 74.1 92.8	(2.1) (1.5)	91.3	(3.5)	-1.7 m	(3.6) m	89.2 59.1	(1.9)	94.7 93.2	(4.9)	5.5 34.1	
	Qatar Romania Russia Singapore Chinese Taipei	70.9 74.2 m m	m m	m 74.1	(2.1)			-1.7 m 2.2	(3.6) m (4.8)	59.2 59.1 29.5	(0.1) (1.1)	94./ 93.2 77.5	(4.9) (0.5) (3.8)	5.5 34.1 48.0	(0
	Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	70.9 74.2 m m 93.0 59.5	m m (1.5) (0.2)	m 74.1 92.8 62.1	(2.1) (1.5) (0.1)	91.3 m	(3.5) m	m	m	59.1	(0.1)	93.2	(0.5)	34.1	(0. (4. (2.
	Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	70.9 74.2 m m 93.0 59.5 25.1 14.3 27.8	m (1.5) (0.2) (4.2) (4.1) (5.5)	m 74.1 92.8 62.1 32.0 40.4 38.3	(2.1) (1.5) (0.1) (1.5) (3.8) (1.9)	91.3 m 27.3 72.6 48.2	(3.5) m (2.5) (2.0) (2.1)	m 2.2 58.2 20.4	m (4.8) (4.7) (5.9)	59.1 29.5 18.0 31.9	(0.1) (1.1) (2.0) (1.3)	93.2 77.5 89.8 95.6	(0.5) (3.8) (0.9) (1.4)	34.1 48.0 71.8 63.8	(0 (4 (2 (2
	Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	70.9 74.2 m m 93.0 59.5 25.1 14.3	m (1.5) (0.2) (4.2) (4.1)	m 74.1 92.8 62.1 32.0 40.4	(2.1) (1.5) (0.1) (1.5) (3.8)	91.3 m 27.3 72.6	(3.5) m (2.5) (2.0)	m 2.2 58.2	(4.8) (4.7)	59.1 29.5 18.0	(0.1) (1.1) (2.0)	93.2 77.5 89.8	(0.5) (3.8) (0.9)	34.1 48.0 71.8	(0 (4 (2
	Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	70.9 74.2 m m 93.0 59.5 25.1 14.3 27.8	m (1.5) (0.2) (4.2) (4.1) (5.5)	m 74.1 92.8 62.1 32.0 40.4 38.3	(2.1) (1.5) (0.1) (1.5) (3.8) (1.9)	91.3 m 27.3 72.6 48.2	(3.5) m (2.5) (2.0) (2.1)	m 2.2 58.2 20.4	m (4.8) (4.7) (5.9)	59.1 29.5 18.0 31.9	(0.1) (1.1) (2.0) (1.3)	93.2 77.5 89.8 95.6	(0.5) (3.8) (0.9) (1.4)	34.1 48.0 71.8 63.8	(0 (4 (2 (2

^{1.} The index of school autonomy is calculated as the percentage of tasks for which the principal, the teachers or the school governing board have considerable responsibility.

2. The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS).

Note: Values that are statistically significant are indicated in bold (see Annex A3).

*See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink *** The profile is the profile is measured by the PISA index of economic, social and cultural status (ESCS).

*** Coverage is too small to ensure comparability (see Annex A4).

StatLink *** The profile is measured by the PISA index of economic, social and cultural status (ESCS).

*** The profile is measured by the PISA index of economic, social and cultural status (ESCS).

*** See note at the beginning of this Annex.

*** Coverage is too small to ensure comparability (see Annex A4).



[Part 3/3]

Table II.4.5 Index of school autonomy¹, science performance and school characteristics

				By educa	tion level			Before	e account	ing for stud	dents'		accountii		
		Lower se educa (ISCE	ation '	Upper se educa (ISCE	condary ation	ISCED 3 -	ISCED 2	Chain science percenta incre on the ii school au	nge score per ge point ease ndex of	Explained in stu perfor	I variance udent mance ed x 100)	Cha in science percenta incre on the i	nge score per ge point ease ndex of	Explained in str perfor	d variance udent rmance red x 100)
		%	S.E.	%	S.E.	% dif.	S.E.	Score dif.	S.E.	%	S.E.	Score dif.	S.E.	%	S.E.
	Australia	75.7	(0.8)	75.3	(1.4)	-0.5	(1.2)	0.60	(0.1)	1.5	(0.4)	0.08	(0.1)	16.2	(1.1)
OFCD	Austria	53.8	(2.4)	58.4	(1.3)	4.6	(2.6)	0.37	(0.3)	0.4	(0.7)	0.14	(0.2)	31.3	(1.8)
5	Belgium	59.9	(2.9)	70.0	(1.3)	10.1	(2.9)	0.47	(0.2)	1.0	(0.8)	0.23	(0.1)	36.1	(2.0)
	Canada	65.9	(1.7)	65.2	(1.0)	-0.7	(1.7)	0.06	(0.1)	0.0	(0.1)	0.02	(0.1)	11.5	(1.0)
	Chile	65.2	(4.7)	80.9	(1.6)	15.7	(4.7)	0.84	(0.2)	5.0	(1.4)	0.14	(0.1)	26.4	(1.6)
	Czech Republic	95.8	(0.5)	95.3	(0.8)	-0.4	(0.9)	-0.13	(0.3)	0.0	(0.1)	0.01	(0.2)	33.2	(2.1)
	Denmark	83.1	(1.0)	91.9	(8.6)	8.8	(8.6)	0.31	(0.2)	0.3	(0.3)	0.10	(0.2)	12.0	(1.4)
	Estonia	88.2	(0.7)	88.1	(2.5)	-0.1	(2.5)	-0.17	(0.2)	0.1	(0.2)	-0.17	(0.1)	11.1	(1.3)
	Finland	74.8	(1.4)	m	m (1.2)	m	m (2.5)	0.21	(0.2)	0.1	(0.2)	0.18	(0.1)	11.2	(1.4)
	France	59.1	(2.3)	58.3	(1.3)	-0.8	(2.5)	0.09	(0.2)	0.0	(0.2)	-0.28	(0.1)	38.3	(2.2)
	Germany	62.4	(0.8)	65.5	(3.6)	3.1	(3.8)	-0.49	(0.3)	0.3	(0.6)	-0.32	(0.2)	35.6	(2.3)
	Greece	23.5	(2.3)	26.5	(0.9)	3.0	(2.6)	0.90	(0.2)	2.4	(1.1)	-0.09	(0.2)	23.4	(2.7)
	Hungary Iceland	58.3 81.5	(2.5)	63.8 m	(1.4) m	5.5 m	(3.0) m	0.28 0.48	(0.2)	0.4 0.4	(0.7)	-0.09 0.42	(0.1)	43.4 5.4	(2.2)
	Ireland	75.1	(0.1)		(0.9)	0.3	(0.5)	0.48	(0.1)	1.5	(0.8)	0.18	(0.1)	15.4	
	Israel	70.7	(2.4)	75.4 76.2	(1.5)	5.5	(2.4)	0.84	(0.3)	2.2	(1.4)	0.18	(0.2)	23.2	(1.4)
	Italy	53.5	(3.0)	56.8	(1.3)	3.4	(3.1)	0.33	(0.3)	0.1	(0.5)	0.06	(0.2)	23.8	(2.4)
	Japan	m	(3.0) m	73.3	(0.9)	m	(J.1)	-0.10	(0.2)	0.1	(0.2)	-0.69	(0.1)	30.4	(2.4)
	Korea	61.1	(2.4)	66.9	(1.1)	5.8	(2.8)	0.31	(0.4)	0.2	(0.5)	-0.03	(0.1)	17.9	(2.1)
	Latvia	84.0	(0.9)	88.1	(1.5)	4.1	(1.4)	0.17	(0.1)	0.1	(0.2)	0.06	(0.1)	12.5	(1.4)
	Luxembourg	65.8	(0.0)	70.1	(0.1)	4.3	(0.1)	0.21	(0.1)	0.1	(0.1)	-0.26	(0.1)	34.5	(1.0)
	Mexico	41.7	(1.9)	47.7	(1.9)	5.9	(2.5)	0.49	(0.1)	3.2	(1.2)	-0.04	(0.1)	17.3	(2.0)
	Netherlands	91.6	(2.1)	88.9	(3.8)	-2.7	(3.1)	-0.02	(0.3)	0.0	(0.3)	-0.08	(0.2)	36.5	(4.5)
	New Zealand	84.9	(2.0)	84.9	(1.1)	0.0	(1.1)	0.21	(0.2)	0.1	(0.2)	0.27	(0.2)	19.7	(1.9)
	Norway	72.7	(1.1)	m	m	m	m	-0.03	(0.2)	0.0	(0.1)	0.08	(0.2)	8.6	(0.9)
	Poland	77.7	(1.2)	m	m	m	m	-0.10	(0.2)	0.0	(0.1)	-0.04	(0.1)	15.6	(1.6)
	Portugal	60.8	(1.3)	61.9	(1.4)	1.1	(1.4)	0.07	(0.3)	0.0	(0.1)	-0.32	(0.2)	20.0	(2.0)
١	Slovak Republic	87.8	(1.1)	88.8	(1.2)	1.0	(1.6)	0.00	(0.4)	0.0	(0.2)	0.19	(0.2)	30.3	(2.4)
	Slovenia	71.8	(3.3)	76.8	(0.0)	4.9	(3.3)	0.39	(0.1)	0.4	(0.2)	0.32	(0.1)	35.8	(1.3)
١	Spain	57.5	(0.9)	m	m (C 4)	m 0.7	m (C 4)	0.51	(0.1)	1.2	(0.6)	-0.28	(0.1)	14.6	(1.2)
ı	Sweden	87.8	(0.9)	78.1	(6.4)	-9.7	(6.4)	0.43	(0.3)	0.3	(0.4)	-0.09	(0.2)	16.4	(1.7)
ì	Switzerland	69.3 33.9	(1.7)	71.1 28.8	(2.8)	1.8 -5.1	(3.3)	0.19 -0.10	(0.2)	0.2	(0.4)	-0.10 -0.23	(0.2)	24.4 26.7	(2.0)
	Turkey United Kingdom	67.7	(1.4)	91.5	(2.0)	23.8	(1.8)	0.15	(0.2)	0.1	(0.4)	0.05	(0.2)	18.8	(1.7)
ì	United States	77.7	(2.8)	80.4	(1.8)	2.8	(1.9)	0.15	(0.1)	0.4	(0.4)	0.18	(0.1)	14.3	(1.6)
	OECD average	68.8	(0.4)	71.5	(0.5)	3.3	(0.6)	0.25	(0.0)	0.6	(0.1)	-0.01	(0.0)	22.6	(0.3)
_															
	Albania	64.4 43.9	(1.8)	67.1 40.3	(1.9)	2.8 -3.6	(2.5)	-0.42	m (0.3)	m 1.0	m (1.3)	-0.38	m (0.2)	m 10.3	m (2.7)
1	Algeria Brazil	46.6	(1.4)	50.2	(1.3)	3.5	(1.9)	1.06	(0.3)	9.2	(1.9)	0.37	(0.2)	22.7	(2.2)
3	B-S-J-G (China)	48.5	(1.9)	56.7	(2.8)	8.2	(3.3)	0.85	(0.1)	3.9	(1.6)	-0.01	(0.1)	34.7	(3.0)
	Bulgaria	85.9	(3.2)	81.0	(1.4)	-4.9	(3.4)	-0.72	(0.2)	1.3	(1.3)	-0.19	(0.2)	38.4	(2.8)
	CABA (Argentina)	62.4	(2.4)	71.0	(5.5)	8.6	(6.1)	1.37	(0.3)	12.8	(4.0)	-0.31	(0.2)	32.8	(3.5)
	Colombia	64.4	(1.1)	67.8	(1.2)	3.4	(1.0)	0.89	(0.2)	4.8	(1.7)	0.05	(0.1)	20.2	(2.5)
	Costa Rica	53.0	(1.6)	50.6	(1.5)	-2.4	(1.3)	-0.29	(0.1)	0.7	(0.7)	-0.05	(0.1)	22.4	(2.1)
	Croatia	m	m	63.6	(1.2)	m	m	0.08	(0.3)	0.0	(0.2)	0.40	(0.2)	26.4	(2.0)
	Cyprus*	23.8	(0.6)	34.1	(0.1)	10.3	(0.6)	0.63	(0.0)	4.8	(0.6)	-0.06	(0.0)	17.2	(0.9)
	Dominican Republic	41.5	(2.0)	50.6	(1.4)	9.1	(2.5)	0.90	(0.2)	8.7	(2.6)	-0.04	(0.1)	26.0	(3.1)
	FYROM	m	m	71.4	(0.1)	m	m	-0.02	(0.1)	0.0	(0.0)	-0.05	(0.1)	13.5	(1.1)
	Georgia	75.0	(1.0)	76.0	(1.0)	1.0	(0.9)	0.59	(0.2)	1.1	(0.6)	0.14	(0.1)	15.2	(1.6)
	Hong Kong (China)	85.0	(2.5)	83.6	(2.3)	-1.4	(1.4)	-0.11	(0.1)	0.1	(0.4)	-0.23	(0.1)	13.4	(1.9)
	Indonesia	80.7	(1.5)	83.7	(1.5)	2.9	(2.1)	-0.41	(0.2)	1.2	(1.1)	-0.32	(0.1)	24.2	(3.0)
	Jordan	35.6	(1.3)	m	m (O.F)	m	m	0.49	(0.1)	2.1	(1.1)	-0.07	(0.1)	12.4	(2.2)
	Kosovo	49.5	(2.0)	42.1	(0.5)	-7.4	(2.1)	0.02	(0.1)	0.0	(0.1)	-0.25	(0.1)	14.7	(1.4)
	Lebanon	67.2	(2.1)	75.4	(1.6)	8.2	(2.4)	1.00	(0.1)	8.6	(2.1)	0.29	(0.1)	19.7	(3.2)
	Lithuania Macao (China)	91.1 98.6	(0.6)	98.8	m (0.0)	0.2	m (0.1)	0.30 1.01	(0.2)	0.1	(0.2)	0.44 0.91	(0.2)	21.7 2.8	(2.3)
	Malta	98.6 m	(0.0) m	53.0	(0.0)	m	(U.1) m	1.70	(0.2)	13.2	(1.0)	0.91	(0.2)	24.5	(1.1)
	Moldova	71.0	(1.3)	71.5	(2.5)	0.6	(2.5)	-0.26	(0.1)	0.3	(0.3)	-0.23	(0.1)	14.3	(1.7)
	Montenegro	59.2	(2.4)	58.1	(0.0)	-1.1	(2.4)	0.31	(0.1)	0.5	(0.2)	-0.23	(0.1)	17.2	(0.9)
	Peru	61.0	(1.0)	65.2	(1.4)	4.1	(1.4)	0.62	(0.1)	3.6	(1.5)	-0.09	(0.1)	30.0	(2.2)
	Qatar	57.3	(0.2)	65.1	(0.1)	7.8	(0.2)	1.12	(0.0)	13.5	(0.5)	0.87	(0.0)	21.4	(0.7)
	Romania	68.2	(1.2)	m	m	m	m	-0.26	(0.2)	0.3	(0.5)	-0.09	(0.2)	23.2	(2.9)
	Russia	81.0	(1.4)	83.8	(1.4)	2.8	(1.3)	0.53	(0.2)	1.1	(0.9)	0.21	(0.2)	9.9	(1.8)
	Singapore	75.6	(4.1)	73.8	(0.5)	-1.8	(3.6)	1.35	(0.1)	4.6	(0.9)	-0.12	(0.2)	26.2	(1.5)
	Chinese Taipei	66.2	(1.5)	79.1	(1.4)	12.8	(2.0)	-0.64	(0.2)	1.5	(0.9)	-0.55	(0.2)	29.4	(2.5)
	Thailand	90.6	(1.3)	89.9	(2.1)	-0.7	(1.8)	0.09	(0.2)	0.1	(0.3)	0.05	(0.1)	18.0	(3.1)
	Trinidad and Tobago	58.7	(0.2)	63.4	(0.1)	4.7	(0.2)	1.30	(0.1)	6.3	(0.7)	0.63	(0.1)	37.5	(1.1)
	Tunisia	31.0	(1.8)	30.0	(1.4)	-1.0	(2.4)	-0.15	(0.2)	0.1	(0.3)	-0.19	(0.2)	18.8	(3.6)
	United Arab Emirates	52.8	(3.4)	60.0	(1.1)	7.2	(3.7)	0.99	(0.1)	16.5	(1.8)	0.70	(0.1)	21.5	(2.1)
	Uruguay	34.6	(1.9)	45.9	(1.3)	11.3	(2.0)	0.77	(0.1)	7.0	(1.4)	-0.14	(0.1)	26.4	(1.8)
	Viet Nam	39.8	(3.2)	46.2	(2.1)	6.5	(3.9)	0.00	(0.2)	0.0	(0.2)	-0.22	(0.1)	20.1	(4.2)
	Argentina**	50.2	(1.3)	52.2	(1.3)	1.9	(1.4)	0.54	(0.2)	1.6	(1.0)	-0.08	(0.1)	19.3	(2.2)
	Kazakhstan**	56.1	(1.1)	57.7	(1.8)	1.6	(1.3)	-0.46	(0.2)	1.2	(1.1)	-0.53	(0.2)	10.3	(2.5)
	Malaysia**	35.0	(4.1)	41.1	(1.3)	6.1	(3.8)	0.17	(0.2)	0.3	(0.7)	-0.02	(0.1)	18.2	(2.4)

^{1.} The index of school autonomy is calculated as the percentage of tasks for which the principal, the teachers or the school governing board have considerable responsibility.

2. The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS).

Note: Values that are statistically significant are indicated in bold (see Annex A3).

*See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink *** Indicated *** StatLink** StatLink** Indicated *** StatLink** StatLink** Indicated *** StatLink** StatL



Table II.4.6 School type

		Percentage of stu	dents enrolled in:	
	Government o	r public schools ¹	Private	schools ²
	%	S.E.	%	S.E.
Australia	56.3	(0.8)	43.7	(0.8)
Austria	87.4	(2.2)	12.6	(2.2)
Belgium	W	W	W	W
Canada	90.3	(1.0)	9.7	(1.0)
Chile	36.9	(1.6)	63.1	(1.6)
Czech Republic	91.8	(1.4)	8.2	(1.4)
Denmark	76.8	(2.3)	23.2	(2.3)
Estonia	95.8	(1.0)	4.2	(1.0)
Finland	95.5	(1.5)	4.5	(1.5)
France	79.0	(1.3)	21.0	(1.3)
Germany	92.7	(1.6)	7.3	(1.6)
Greece	95.1	(0.7)	4.9	(0.7)
Hungary	82.0	(2.3)	18.0	(2.3)
Iceland Ireland	99.4	(0.1)	0.6	(0.1)
	42.7	(1.0)	57.3	(1.0)
Israel	m 95.9	m (1.1)	m 4.1	m (1.1)
Italy		(1.1)	31.8	(1.1)
Japan Korea	68.2 65.3	(3.8)	34.7	(1.0) (3.8)
Latvia	98.0	(0.7)	2.0	(0.7)
Luxembourg	84.4	(0.7)	15.6	(0.1)
Mexico	87.5	(1.4)	12.5	(1.4)
Netherlands	39.9	(4.6)	60.1	(4.6)
New Zealand	93.4	(1.2)	6.6	(1.2)
Norway	98.1	(1.0)	1.9	(1.0)
Poland	96.5	(1.0)	3.5	(1.0)
Portugal	94.5	(0.6)	5.5	(0.6)
Slovak Republic	88.4	(2.1)	11.6	(2.1)
Slovenia	97.4	(0.0)	2.6	(0.0)
Spain	68.7	(1.2)	31.3	(1.2)
Sweden	82.1	(1.0)	17.9	(1.0)
Switzerland	93.9	(1.0)	6.1	(1.0)
Turkey	95.2	(2.1)	4.8	(2.1)
United Kingdom	93.7	(1.7)	6.3	(1.7)
United States	92.3	(1.3)	7.7	(1.3)
OECD average	82.4	(0.3)	17.6	(0.3)
Albania	88.4	(1.8)	11.6	(1.8)
Algeria	98.5	(1.0)	1.5	(1.0)
Brazil B-S-J-G (China)	85.5	(1.4)	14.5 10.6	(1.4) (2.1)
Bulgaria	89.4 98.8	(2.1) (0.8)	1.2	(0.8)
CABA (Argentina)	50.8	(4.7)	49.2	(4.7)
Colombia (Argentina)	75.9	(1.8)	24.1	(1.8)
Costa Rica	87.6	(2.3)	12.4	(2.3)
Croatia	97.7	(1.1)	2.3	(1.1)
Cyprus*	84.0	(0.1)	16.0	(0.1)
Dominican Republic	77.7	(1.8)	22.3	(1.8)
FYROM	98.1	(0.0)	1.9	(0.0)
Georgia	92.6	(0.8)	7.4	(0.8)
Hong Kong (China)	6.5	(0.3)	93.5	(0.3)
Indonesia	59.2	(1.5)	40.8	(1.5)
Jordan	80.0	(1.1)	20.0	(1.1)
Kosovo	97.5	(0.5)	2.5	(0.5)
Lebanon	49.7	(1.6)	50.3	(1.6)
Lithuania	97.7	(1.1)	2.3	(1.1)
Macao (China)	2.7	(0.0)	97.3	(0.0)
Malta	58.2	(0.1)	41.8	(0.1)
			1.5	(0.9)
Moldova	98.5	(0.9)		(0.0)
Moldova Montenegro	99.4	(0.0)	0.6	(0.0)
Moldova Montenegro Peru	99.4 68.6	(0.0) (1.8)	0.6 31.4	(1.8)
Moldova Montenegro Peru Qatar	99.4 68.6 58.2	(0.0) (1.8) (0.1)	0.6 31.4 41.8	(1.8) (0.1)
Moldova Montenegro Peru Qatar Romania	99.4 68.6 58.2 98.9	(0.0) (1.8) (0.1) (0.8)	0.6 31.4 41.8 1.1	(1.8) (0.1) (0.8)
Moldova Montenegro Peru Qatar Romania Russia	99.4 68.6 58.2 98.9 99.0	(0.0) (1.8) (0.1) (0.8) (0.7)	0.6 31.4 41.8 1.1 1.0	(1.8) (0.1) (0.8) (0.7)
Moldova Montenegro Peru Qatar Romania Russia Singapore	99.4 68.6 58.2 98.9 99.0 91.6	(0.0) (1.8) (0.1) (0.8) (0.7) (0.7)	0.6 31.4 41.8 1.1 1.0 8.4	(1.8) (0.1) (0.8) (0.7) (0.7)
Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei	99.4 68.6 58.2 98.9 99.0 91.6 66.2	(0.0) (1.8) (0.1) (0.8) (0.7) (0.7) (0.9)	0.6 31.4 41.8 1.1 1.0 8.4 33.8	(1.8) (0.1) (0.8) (0.7) (0.7) (0.9)
Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand	99.4 68.6 58.2 98.9 99.0 91.6 66.2 85.2	(0.0) (1.8) (0.1) (0.8) (0.7) (0.7) (0.9) (0.7)	0.6 31.4 41.8 1.1 1.0 8.4 33.8 14.8	(1.8) (0.1) (0.8) (0.7) (0.7) (0.9) (0.7)
Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	99.4 68.6 58.2 98.9 99.0 91.6 66.2 85.2 92.0	(0.0) (1.8) (0.1) (0.8) (0.7) (0.7) (0.9) (0.7) (0.1)	0.6 31.4 41.8 1.1 1.0 8.4 33.8 14.8 8.0	(1.8) (0.1) (0.8) (0.7) (0.7) (0.9) (0.7) (0.1)
Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	99.4 68.6 58.2 98.9 99.0 91.6 66.2 85.2 92.0 97.9	(0.0) (1.8) (0.1) (0.8) (0.7) (0.7) (0.9) (0.7) (0.1) (1.0)	0.6 31.4 41.8 1.1 1.0 8.4 33.8 14.8 8.0 2.1	(1.8) (0.1) (0.8) (0.7) (0.7) (0.9) (0.7) (0.1) (1.0)
Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	99.4 68.6 58.2 98.9 99.0 91.6 66.2 85.2 92.0 97.9 42.6	(0.0) (1.8) (0.1) (0.8) (0.7) (0.7) (0.9) (0.7) (0.1) (1.0) (1.3)	0.6 31.4 41.8 1.1 1.0 8.4 33.8 14.8 8.0 2.1	(1.8) (0.1) (0.8) (0.7) (0.7) (0.9) (0.7) (0.1) (1.0) (1.3)
Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	99.4 68.6 58.2 98.9 99.0 91.6 66.2 85.2 92.0 97.9 42.6 84.6	(0.0) (1.8) (0.1) (0.8) (0.7) (0.7) (0.9) (0.7) (0.1) (1.0) (1.3) (0.8)	0.6 31.4 41.8 1.1 1.0 8.4 33.8 14.8 8.0 2.1 57.4	(1.8) (0.1) (0.8) (0.7) (0.7) (0.7) (0.9) (0.7) (0.1) (1.0) (1.3) (0.8)
Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	99.4 68.6 58.2 98.9 99.0 91.6 66.2 85.2 92.0 97.9 42.6	(0.0) (1.8) (0.1) (0.8) (0.7) (0.7) (0.9) (0.7) (0.1) (1.0) (1.3)	0.6 31.4 41.8 1.1 1.0 8.4 33.8 14.8 8.0 2.1	(1.8) (0.1) (0.8) (0.7) (0.7) (0.9) (0.7) (0.1) (1.0) (1.3)
Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam Argentina**	99.4 68.6 58.2 98.9 99.0 91.6 66.2 85.2 92.0 97.9 42.6 84.6 95.9	(0.0) (1.8) (0.1) (0.8) (0.7) (0.7) (0.9) (0.7) (0.1) (1.0) (1.3) (0.8) (1.0)	0.6 31.4 41.8 1.1 1.0 8.4 33.8 14.8 8.0 2.1 57.4 15.4 4.1	(1.8) (0.1) (0.8) (0.7) (0.7) (0.9) (0.7) (0.1) (1.0) (1.3) (0.8) (1.0)
Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	99.4 68.6 58.2 98.9 99.0 91.6 66.2 85.2 92.0 97.9 42.6 84.6 95.9	(0.0) (1.8) (0.1) (0.8) (0.7) (0.7) (0.9) (0.7) (0.1) (1.0) (1.3) (0.8) (1.0)	0.6 31.4 41.8 1.1 1.0 8.4 33.8 14.8 8.0 2.1 57.4 15.4 4.1	(1.8) (0.1) (0.8) (0.7) (0.7) (0.9) (0.7) (0.1) (1.0) (1.3) (0.8) (1.0)

^{1.} Schools that are directly or indirectly managed by a public education authority, government agency, or governing board, appointed by a public authority or elected by public franchise.

2. Schools that are directly or indirectly managed by a non-government organisation, such as a church, trade union, business, or other private institution.

** See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

** Cathink ** Indiana ** Indiana** Intro- I



[Part 1/3]

Table II.4.10 Attendance at public schools, science performance and school characteristics

	l principa	All st	udents					By sch	ool socio-	economic	profile1			
	Ave	rage	Varia	bility	Rottom	quarter	Second	l quarter	Third	quarter	Ton (quarter		botton arter
	%	S.E.	S.D.	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	% dif.	S.E
Australia	56.3	(0.8)	49.6	(0.1)	95.3	(1.7)	71.8	(3.5)	37.2	(3.8)	23.5	(2.6)	-71.8	(3.2
Austria	87.4	(2.2)	33.2	(2.5)	93.2	(4.3)	95.2	(3.5)	92.0	(3.6)	69.7	(7.5)	-23.5	(9.
Belgium	W	W	w	W	W	W	W	W	W	W	W	W	W	,
Canada	90.3	(1.0)	29.6	(1.4)	99.8	(0.2)	94.6	(3.5)	95.8	(3.3)	71.8	(4.3)	-28.0	(4.4
Chile	36.9	(1.6)	48.2	(0.4)	66.4	(6.1)	44.4	(7.8)	32.8	(7.3)	5.5	(3.7)	-60.9	(7.2
Czech Republic	91.8	(1.4)	27.4	(2.2)	96.7	(2.6)	95.7	(2.8)	86.5	(3.8)	88.6	(3.7)	-8.0	(3.8)
Denmark	76.8	(2.3)	42.2	(1.4)	93.4	(3.2)	81.3	(6.8)	76.4	(8.7)	55.9	(10.7)	-37.5	(11.
Estonia	95.8	(1.0)	20.1	(2.4)	98.6	(1.2)	98.6	(1.4)	96.2	(0.2)	89.6	(3.7)	-9.0	(3.9
Finland	95.5	(1.5)	20.7	(3.4)	100.0	С	100.0	С	96.7	(2.4)	85.4	(5.8)	-14.6	(5.8
France	79.0	(1.3)	40.7	(0.9)	93.5	(3.2)	80.2	(5.5)	81.3	(5.0)	62.7	(5.0)	-30.8	(5.9
Germany	92.7	(1.6)	26.0	(2.7)	100.0	С	92.6	(3.9)	91.1	(4.8)	87.2	(4.7)	-12.8	(4.2
Greece	95.1	(0.7)	21.6	(1.4)	100.0	(2 F)	100.0	C (4.0)	100.0	C (C 2)	80.5	(2.7)	-19.5	(2.2
Hungary	82.0	(2.3)	38.4	(1.9)	88.1	(2.5)	93.4	(4.0)	74.5	(6.3)	72.8	(6.7)	-15.3	(7.
Iceland	99.4	(0.1)	7.6	(0.4)	99.0	(0.2)	100.0	(6 O)	99.7 29.4	(0.0)	98.9	(0.2)	-0.1	(0.
Ireland	42.7	(1.0)	49.5	(0.1)	59.2	(6.9)	60.0	(6.9)		(8.9)	22.0	(6.6)	-37.3	(9.
Israel	m	m	m	m	m oz a	m (1.5)	m	m (2, 4)	m on 4	m	m	m	m	(2
Italy	95.9	(1.1)	19.8	(2.7)	97.3	(1.5)	96.6	(2.4)	98.4	(1.2)	91.1	(3.4)	-6.2	(3.
Japan	68.2 65.3	(1.0)	46.6 47.6	(0.4)	78.3 70.9	(5.2)	79.0 70.5	(5.3)	71.1 65.5	(6.6)	44.3 54.4	(5.6)	-34.0 -16.4	(8.
Korea	98.0	(3.8)	13.9	(1.2)	100.0	(7.1)	98.5	(7.8)	98.1	(9.4)	95.5	(9.0) (2.4)	-16.4	(11.
Luxombourg				(2.3)				(1.5)	98.1	(1.4)				
Luxembourg	84.4 87.5	(0.1)	36.3 33.0	(0.1)	84.4 96.5	(0.1)	82.4 96.3	(0.1)	92.3	(0.1)	78.3 61.7	(0.2)	-6.1 -34.8	(0.
Mexico Netherlands	39.9		49.0		40.0	(10.9)	40.3	(10.2)	23.4		53.9	(9.3)	13.9	(13.
Netnerlands New Zealand	93.4	(4.6) (1.2)	24.7	(1.0)	100.0		100.0		94.0	(8.4)	81.5	(4.4)	-18.5	(13.
	93.4				96.8	(2.5)		(1.3)	98.2	(1.5)	97.6	(2.5)	0.7	(3.
Norway Poland	98.1	(1.0)	13.5 18.3	(3.4) (2.4)	98.2	(2.5)	100.0	(1.3) c	100.0	(0.8)	87.6	(3.6)	-10.6	(4.
Portugal	94.5	(0.6)	22.8	(1.2)	97.4	(1.3)	98.8	(1.2)	97.5	(1.8)	84.5	(2.4)	-10.8	(2.
Slovak Republic	88.4	(2.1)	32.0	(2.5)	92.6	(3.3)	89.1	(4.3)	92.4	(3.5)	79.4	(5.6)	-13.3	(6.
Slovenia	97.4	(0.0)	15.8	(0.1)	100.0		100.0	(4.3) C	97.5	(0.1)	92.3	(0.1)	-7.7	(0.
Spain	68.7	(1.2)	46.4	(0.1)	90.6	(4.1)	95.8	(3.1)	70.3	(5.5)	18.1	(6.0)	-72.4	(7.
		(1.2)	38.3								64.2		-72.4	
Sweden Switzerland	82.1 93.9	(1.0)	23.9	(0.8)	96.0 99.8	(2.5)	96.7 100.0	(3.6)	71.7 88.0	(6.1)	87.5	(6.4) (4.1)	-12.3	(7. (4.
	95.9		21.3					(6 E)	100.0				-12.5	
Turkey	93.7	(2.1)	24.3	(4.6)	100.0	C C	93.4 96.7	(6.5) (5.5)	98.3	(4.7)	87.5 79.8	(5.7) (4.9)	-12.3	(5.
United Kingdom United States	92.3	(1.7)	26.6	(2.1)	100.0	С	95.5	(4.7)	97.3	(4.4)	76.6	(5.9)	-23.4	(5.
OECD average	82.4	(0.3)	31.1	(0.3)	90.8	(0.7)	88.1	(0.8)	81.6	(0.9)	69.0	(0.9)	-21.8	(1.
Albania	88.4	(1.8)	32.1	(2.1)	90.1	(6.8)	87.9	(8.1)	81.7	(10.9)	93.0	(4.1)	3.0	(8.
Algeria	98.5	(1.0)	12.0	(4.4)	96.3	(3.6)	100.0	С	100.0	С	97.7	(2.2)	1.4	(4.
Brazil	85.5	(1.4)	35.2	(1.5)	99.6	(0.4)	99.8	(0.3)	97.2	(1.5)	48.8	(5.0)	-50.8	(5.
B-S-J-G (China)	89.4	(2.1)	30.8	(2.6)	91.7	(3.7)	85.6	(5.6)	95.8	(6.2)	84.3	(6.5)	-7.4	(7.
Bulgaria	98.8	(0.8)	10.9	(3.5)	100.0	C	100.0	C	100.0	C	95.1	(3.1)	-4.9	(3.
CABA (Argentina)	50.8	(4.7)	50.0	(0.2)	96.8	(9.5)	61.5	(16.4)	25.9	(13.1)	16.2	(12.2)	-80.6	(13.
Colombia	75.9	(1.8)	42.7	(1.1)	95.4	(3.0)	91.9	(3.8)	83.5	(5.4)	35.1	(5.1)	-60.3	(5.
Costa Rica	87.6	(2.3)	33.0	(2.7)	84.6	(4.9)	89.8	(5.0)	81.2	(5.5)	94.6	(3.3)	9.9	(5.
Croatia	97.7	(1.1)	15.0	(3.7)	100.0	(1.8)	96.0	(2.9)	100.0	С	94.7	(3.5)	-5.3	(4.
Cyprus*	84.0	(0.1)	36.7	(0.1)	93.9	(0.3)	100.0	C (1.4)	92.0	(0.1)	50.1	(0.3)	-43.8	(0.
Dominican Republic	77.7	(1.8)	41.6	(1.2)	98.5	(1.5)	97.9	(1.4)	82.8	(6.8)	32.6	(6.4)	-66.0	(6
FYROM	98.1	(0.0)	13.5	(0.1)	100.0	C (O 4)	100.0	(O, O)	100.0	(2, 2)	92.0	(0.1)	-8.0	(0.
Georgia	92.6	(0.8)	26.2	(1.3)	99.4	(0.4)	99.9	(0.0)	94.6	(2.2)	75.4	(3.7)	-24.0	(3.
Hong Kong (China)	6.5	(0.3)	24.7	(0.5)	6.4	(0.9)	4.8	(1.8)	5.0	(4.0)	9.9	(3.8)	3.5	(3
Indonesia	59.2	(1.5)	49.2	(0.3)	48.2	(7.2)	63.9	(7.0)	72.6	(5.5)	51.8	(8.0)	3.6	(12
Jordan	80.0	(1.1) (0.5)	40.0 15.5	(0.8)	88.7 100.0	(3.2)	86.7	(3.9)	92.6	(3.7)	51.6	(4.3)	-37.1	(5
	07.5		1 12 5							11 20	91.4	(2.1)	-8.6	(2
Kosovo	97.5					(2.6)	100.0	(F 2)	98.7		2.0	(2.4)	0 = (1.4
Kosovo Lebanon	49.7	(1.6)	50.0	(0.0)	89.4	(3.6)	75.3	(5.3)	30.5	(6.6)	3.8	(2.4)	-85.6	
Kosovo Lebanon Lithuania	49.7 97.7	(1.6) (1.1)	50.0 15.0	(0.0) (3.6)	89.4 100.0	(3.6) c	75.3 100.0	(5.3) c	30.5 100.0	(6.6) (1.8)	90.7	(4.1)	-9.3	(4.
Kosovo Lebanon Lithuania Macao (China)	49.7 97.7 2.7	(1.6) (1.1) (0.0)	50.0 15.0 16.3	(0.0) (3.6) (0.1)	89.4 100.0 9.3	(3.6) c (0.1)	75.3 100.0 0.0	(5.3) C	30.5 100.0 0.6	(6.6) (1.8) (0.0)	90.7 1.0	(4.1) (0.0)	-9.3 -8.3	(4.
Kosovo Lebanon Lithuania Macao (China) Malta	49.7 97.7 2.7 58.2	(1.6) (1.1) (0.0) (0.1)	50.0 15.0 16.3 49.3	(0.0) (3.6) (0.1) (0.0)	89.4 100.0 9.3 99.1	(3.6) C (0.1) (0.2)	75.3 100.0 0.0 92.8	(5.3) c c (0.1)	30.5 100.0 0.6 39.3	(6.6) (1.8) (0.0) (0.3)	90.7 1.0 0.0	(4.1) (0.0) C	-9.3 -8.3 -99.1	(4 (0 (0
Kosovo Lebanon Lithuania Macao (China) Malta Moldova	49.7 97.7 2.7 58.2 98.5	(1.6) (1.1) (0.0) (0.1) (0.9)	50.0 15.0 16.3 49.3 12.3	(0.0) (3.6) (0.1) (0.0) (3.5)	89.4 100.0 9.3 99.1 99.1	(3.6) C (0.1) (0.2) (1.3)	75.3 100.0 0.0 92.8 100.0	(5.3) c c (0.1) (0.1)	30.5 100.0 0.6 39.3 98.2	(6.6) (1.8) (0.0) (0.3) (1.8)	90.7 1.0 0.0 96.5	(4.1) (0.0) C (2.6)	-9.3 -8.3 -99.1 -2.6	(4. (0. (0. (2.
Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro	49.7 97.7 2.7 58.2 98.5 99.4	(1.6) (1.1) (0.0) (0.1) (0.9) (0.0)	50.0 15.0 16.3 49.3 12.3 7.6	(0.0) (3.6) (0.1) (0.0) (3.5) (0.3)	89.4 100.0 9.3 99.1 99.1 97.7	(3.6) c (0.1) (0.2) (1.3) (0.2)	75.3 100.0 0.0 92.8 100.0 100.0	(5.3) c c (0.1) (0.1) c	30.5 100.0 0.6 39.3 98.2 100.0	(6.6) (1.8) (0.0) (0.3) (1.8)	90.7 1.0 0.0 96.5 100.0	(4.1) (0.0) c (2.6) c	-9.3 -8.3 -99.1 -2.6 2.3	(4. (0. (0. (2.
Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru	49.7 97.7 2.7 58.2 98.5 99.4 68.6	(1.6) (1.1) (0.0) (0.1) (0.9) (0.0) (1.8)	50.0 15.0 16.3 49.3 12.3 7.6 46.4	(0.0) (3.6) (0.1) (0.0) (3.5) (0.3) (0.7)	89.4 100.0 9.3 99.1 99.1 97.7 96.7	(3.6) c (0.1) (0.2) (1.3) (0.2) (2.0)	75.3 100.0 0.0 92.8 100.0 100.0 92.4	(5.3) c c (0.1) (0.1) c (3.6)	30.5 100.0 0.6 39.3 98.2 100.0 67.7	(6.6) (1.8) (0.0) (0.3) (1.8) c (6.3)	90.7 1.0 0.0 96.5 100.0 18.6	(4.1) (0.0) c (2.6) c (5.5)	-9.3 -8.3 -99.1 -2.6 2.3 -78.1	(4. (0. (0. (2. (0. (6.
Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar	49.7 97.7 2.7 58.2 98.5 99.4 68.6 58.2	(1.6) (1.1) (0.0) (0.1) (0.9) (0.0) (1.8) (0.1)	50.0 15.0 16.3 49.3 12.3 7.6 46.4 49.3	(0.0) (3.6) (0.1) (0.0) (3.5) (0.3) (0.7) (0.0)	89.4 100.0 9.3 99.1 99.1 97.7 96.7 73.0	(3.6) c (0.1) (0.2) (1.3) (0.2) (2.0) (0.3)	75.3 100.0 0.0 92.8 100.0 100.0 92.4 54.0	(5.3) c c (0.1) (0.1) c (3.6) (0.3)	30.5 100.0 0.6 39.3 98.2 100.0 67.7 75.7	(6.6) (1.8) (0.0) (0.3) (1.8) c (6.3) (0.3)	90.7 1.0 0.0 96.5 100.0 18.6 29.1	(4.1) (0.0) c (2.6) c (5.5) (0.3)	-9.3 -8.3 -99.1 -2.6 2.3 -78.1 -43.9	(4. (0. (2. (0. (6.
Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania	49.7 97.7 2.7 58.2 98.5 99.4 68.6 58.2 98.9	(1.6) (1.1) (0.0) (0.1) (0.9) (0.0) (1.8) (0.1) (0.8)	50.0 15.0 16.3 49.3 12.3 7.6 46.4 49.3 10.3	(0.0) (3.6) (0.1) (0.0) (3.5) (0.3) (0.7) (0.0) (3.9)	89.4 100.0 9.3 99.1 99.1 97.7 96.7 73.0 100.0	(3.6) C (0.1) (0.2) (1.3) (0.2) (2.0) (0.3) C	75.3 100.0 0.0 92.8 100.0 100.0 92.4 54.0 98.3	(5.3) c c (0.1) (0.1) c (3.6) (0.3) (1.7)	30.5 100.0 0.6 39.3 98.2 100.0 67.7 75.7 100.0	(6.6) (1.8) (0.0) (0.3) (1.8) C (6.3) (0.3)	90.7 1.0 0.0 96.5 100.0 18.6 29.1 97.3	(4.1) (0.0) c (2.6) c (5.5) (0.3) (2.7)	-9.3 -8.3 -99.1 -2.6 2.3 -78.1 -43.9 -2.7	(4. (0. (0. (2. (0. (6. (0.
Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia	49.7 97.7 2.7 58.2 98.5 99.4 68.6 58.2 98.9	(1.6) (1.1) (0.0) (0.1) (0.9) (0.0) (1.8) (0.1) (0.8) (0.7)	50.0 15.0 16.3 49.3 12.3 7.6 46.4 49.3 10.3	(0.0) (3.6) (0.1) (0.0) (3.5) (0.3) (0.7) (0.0) (3.9) (3.3)	89.4 100.0 9.3 99.1 99.1 97.7 96.7 73.0 100.0 100.0	(3.6) c (0.1) (0.2) (1.3) (0.2) (2.0) (0.3) c	75.3 100.0 0.0 92.8 100.0 100.0 92.4 54.0 98.3 100.0	(5.3) c c (0.1) (0.1) c (3.6) (0.3) (1.7)	30.5 100.0 0.6 39.3 98.2 100.0 67.7 75.7 100.0 98.1	(6.6) (1.8) (0.0) (0.3) (1.8) c (6.3) (0.3) c (1.4)	90.7 1.0 0.0 96.5 100.0 18.6 29.1 97.3 97.8	(4.1) (0.0) c (2.6) c (5.5) (0.3) (2.7) (2.2)	-9.3 -8.3 -99.1 -2.6 2.3 -78.1 -43.9 -2.7 -2.2	(4. (0. (0. (2. (0. (6. (0. (2. (2.
Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore	49.7 97.7 2.7 58.2 98.5 99.4 68.6 58.2 98.9 99.0 91.6	(1.6) (1.1) (0.0) (0.1) (0.9) (0.0) (1.8) (0.1) (0.8) (0.7) (0.7)	50.0 15.0 16.3 49.3 12.3 7.6 46.4 49.3 10.3 10.1 27.7	(0.0) (3.6) (0.1) (0.0) (3.5) (0.3) (0.7) (0.0) (3.9) (3.3) (1.0)	89.4 100.0 9.3 99.1 99.1 97.7 96.7 73.0 100.0 100.0	(3.6) c (0.1) (0.2) (1.3) (0.2) (2.0) (0.3) c c	75.3 100.0 0.0 92.8 100.0 100.0 92.4 54.0 98.3 100.0 94.1	(5.3) c c (0.1) (0.1) c (3.6) (0.3) (1.7) c (2.0)	30.5 100.0 0.6 39.3 98.2 100.0 67.7 75.7 100.0 98.1 97.3	(6.6) (1.8) (0.0) (0.3) (1.8) c (6.3) (0.3) c (1.4) (0.0)	90.7 1.0 0.0 96.5 100.0 18.6 29.1 97.3 97.8 75.3	(4.1) (0.0) c (2.6) c (5.5) (0.3) (2.7) (2.2) (4.5)	-9.3 -8.3 -99.1 -2.6 2.3 -78.1 -43.9 -2.7 -2.2 -24.7	(4. (0. (0. (2. (0. (6. (0. (2. (2. (4.
Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei	49.7 97.7 2.7 58.2 98.5 99.4 68.6 58.2 98.9 99.0 91.6 66.2	(1.6) (1.1) (0.0) (0.1) (0.9) (0.0) (1.8) (0.1) (0.8) (0.7) (0.7) (0.9)	50.0 15.0 16.3 49.3 12.3 7.6 46.4 49.3 10.3 10.1 27.7 47.3	(0.0) (3.6) (0.1) (0.0) (3.5) (0.3) (0.7) (0.0) (3.9) (3.3) (1.0) (0.3)	89.4 100.0 9.3 99.1 99.1 97.7 96.7 73.0 100.0 100.0 48.8	(3.6) c (0.1) (0.2) (1.3) (0.2) (2.0) (0.3) c c c (6.1)	75.3 100.0 0.0 92.8 100.0 100.0 92.4 54.0 98.3 100.0 94.1 76.5	(5.3) c c (0.1) (0.1) c (3.6) (0.3) (1.7) c (2.0) (7.0)	30.5 100.0 0.6 39.3 98.2 100.0 67.7 75.7 100.0 98.1 97.3 72.5	(6.6) (1.8) (0.0) (0.3) (1.8) c (6.3) (0.3) c (1.4) (0.0) (6.7)	90.7 1.0 0.0 96.5 100.0 18.6 29.1 97.3 97.8 75.3 67.2	(4.1) (0.0) c (2.6) c (5.5) (0.3) (2.7) (2.2) (4.5) (6.1)	-9.3 -8.3 -99.1 -2.6 2.3 -78.1 -43.9 -2.7 -2.2 -24.7 18.4	(4. (0. (0. (2. (0. (6. (0. (2. (2. (4. (9.
Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand	49.7 97.7 2.7 58.2 98.5 99.4 68.6 58.2 98.9 99.0 91.6 66.2 85.2	(1.6) (1.1) (0.0) (0.1) (0.9) (0.0) (1.8) (0.1) (0.8) (0.7) (0.7) (0.9) (0.7)	50.0 15.0 16.3 49.3 12.3 7.6 46.4 49.3 10.3 10.1 27.7 47.3 35.5	(0.0) (3.6) (0.1) (0.0) (3.5) (0.3) (0.7) (0.0) (3.9) (3.3) (1.0) (0.3) (0.7)	89.4 100.0 9.3 99.1 99.1 97.7 96.7 73.0 100.0 100.0 48.8 91.9	(3.6) c (0.1) (0.2) (1.3) (0.2) (2.0) (0.3) c c c (6.1) (3.8)	75.3 100.0 0.0 92.8 100.0 100.0 92.4 54.0 98.3 100.0 94.1 76.5 84.9	(5.3) c c (0.1) (0.1) c (3.6) (0.3) (1.7) c (2.0) (7.0) (4.1)	30.5 100.0 0.6 39.3 98.2 100.0 67.7 75.7 100.0 98.1 97.3 72.5 84.2	(6.6) (1.8) (0.0) (0.3) (1.8) C (6.3) (0.3) C (1.4) (0.0) (6.7) (4.7)	90.7 1.0 0.0 96.5 100.0 18.6 29.1 97.3 97.8 75.3 67.2 79.9	(4.1) (0.0) c (2.6) c (5.5) (0.3) (2.7) (2.2) (4.5) (6.1) (3.7)	-9.3 -8.3 -99.1 -2.6 2.3 -78.1 -43.9 -2.7 -2.2 -24.7 18.4 -12.0	(4. (0. (0. (2. (0. (6. (0. (2. (2. (4. (9. (6.
Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	49.7 97.7 2.7 58.2 98.5 99.4 68.6 58.2 98.9 99.0 91.6 66.2 85.2	(1.6) (1.1) (0.0) (0.1) (0.9) (0.0) (1.8) (0.1) (0.8) (0.7) (0.7) (0.9) (0.7) (0.9) (0.7)	50.0 15.0 16.3 49.3 12.3 7.6 46.4 49.3 10.3 10.1 27.7 47.3 35.5 27.1	(0.0) (3.6) (0.1) (0.0) (3.5) (0.3) (0.7) (0.0) (3.9) (3.3) (1.0) (0.3) (0.7) (0.2)	89.4 100.0 9.3 99.1 99.7 96.7 73.0 100.0 100.0 100.0 48.8 91.9	(3.6) c (0.1) (0.2) (1.3) (0.2) (2.0) (0.3) c c c (6.1) (3.8) (0.3)	75.3 100.0 0.0 92.8 100.0 100.0 92.4 54.0 98.3 100.0 94.1 76.5 84.9	(5.3) c c (0.1) (0.1) c (3.6) (0.3) (1.7) c (2.0) (7.0) (4.1) (0.1)	30.5 100.0 0.6 39.3 98.2 100.0 67.7 75.7 100.0 98.1 97.3 72.5 84.2 81.2	(6.6) (1.8) (0.0) (0.3) (1.8) c (6.3) (0.3) c (1.4) (0.0) (6.7) (4.7) (0.6)	90.7 1.0 0.0 96.5 100.0 18.6 29.1 97.3 97.8 75.3 67.2 79.9 92.4	(4.1) (0.0) c (2.6) c (5.5) (0.3) (2.7) (2.2) (4.5) (6.1) (3.7) (0.5)	-9.3 -8.3 -99.1 -2.6 2.3 -78.1 -43.9 -2.7 -2.2 -24.7 18.4 -12.0 -2.6	(4 (0) (2) (0) (6) (0) (2) (4) (9) (6) (0)
Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	49.7 97.7 2.7 58.2 98.5 99.4 68.6 58.2 98.9 91.6 66.2 85.2 92.0 97.9	(1.6) (1.1) (0.0) (0.1) (0.9) (0.0) (1.8) (0.1) (0.8) (0.7) (0.7) (0.7) (0.7) (0.1) (1.0)	50.0 15.0 16.3 49.3 12.3 7.6 46.4 49.3 10.1 27.7 47.3 35.5 27.1 14.4	(0.0) (3.6) (0.1) (0.0) (3.5) (0.3) (0.7) (0.0) (3.9) (3.3) (1.0) (0.3) (0.7) (0.2) (3.4)	89.4 100.0 9.3 99.1 99.7 96.7 73.0 100.0 100.0 48.8 91.9 95.0 98.7	(3.6) c (0.1) (0.2) (1.3) (0.2) (2.0) (0.3) c c c (6.1) (3.8) (0.3) (1.1)	75.3 100.0 0.0 92.8 100.0 92.4 54.0 98.3 100.0 94.1 76.5 84.9 98.6 100.0	(5.3)	30.5 100.0 0.6 39.3 98.2 100.0 67.7 75.7 100.0 98.1 97.3 72.5 84.2 81.2	(6.6) (1.8) (0.0) (0.3) (1.8) c (6.3) (0.3) c (1.4) (0.0) (6.7) (4.7) (0.6) c	90.7 1.0 0.0 96.5 100.0 18.6 29.1 97.3 97.8 75.3 67.2 79.9 92.4	(4.1) (0.0) c (2.6) c (5.5) (0.3) (2.7) (2.2) (4.5) (6.1) (3.7) (0.5) (4.1)	-9.3 -8.3 -99.1 -2.6 2.3 -78.1 -43.9 -2.7 -2.2 -24.7 18.4 -12.0 -2.6 -6.1	(4. (0. (0. (0. (2. (2. (4. (9. (6. (0. (4. (4. (4. (4. (4. (4. (4. (4. (4. (4
Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	49.7 97.7 2.7 58.2 98.5 99.4 68.6 58.2 98.9 99.0 91.6 66.2 85.2 92.0 97.9	(1.6) (1.1) (0.0) (0.1) (0.9) (0.0) (1.8) (0.1) (0.8) (0.7) (0.7) (0.9) (0.7) (0.1) (1.0) (1.3)	50.0 15.0 16.3 49.3 12.3 7.6 46.4 49.3 10.1 27.7 47.3 35.5 27.1 14.4 49.4	(0.0) (3.6) (0.1) (0.0) (3.5) (0.3) (0.7) (0.0) (3.9) (3.3) (1.0) (0.3) (0.7) (0.2)	89.4 100.0 9.3 99.1 97.7 96.7 73.0 100.0 100.0 48.8 91.9 95.0 98.7 58.2	(3.6)	75.3 100.0 0.0 92.8 100.0 100.0 92.4 54.0 98.3 100.0 94.1 76.5 84.9 98.6 100.0 62.3	(5.3)	30.5 100.0 0.6 39.3 98.2 100.0 67.7 75.7 100.0 98.1 97.3 72.5 84.2 81.2 100.0 38.9	(6.6) (1.8) (0.0) (0.3) (1.8) C (6.3) (0.3) C (1.4) (0.0) (6.7) (4.7) (0.6) C	90.7 1.0 0.0 96.5 100.0 18.6 29.1 97.3 97.8 75.3 67.2 79.9 92.4 92.6 9.6	(4.1) (0.0) c (2.6) c (5.5) (0.3) (2.7) (2.2) (4.5) (6.1) (3.7) (0.5) (4.1)	-9.3 -8.3 -99.1 -2.6 -2.3 -78.1 -43.9 -2.7 -2.2 -24.7 18.4 -12.0 -2.6 -6.1 -48.6	(4 (0) (0) (6) (6) (2) (2) (4) (9) (6) (0) (4)
Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	49.7 97.7 2.7 58.2 98.5 99.4 68.6 58.2 98.9 99.0 91.6 66.2 85.2 92.0 97.9 42.6 84.6	(1.6) (1.1) (0.0) (0.1) (0.9) (0.0) (1.8) (0.1) (0.8) (0.7) (0.7) (0.7) (0.7) (0.7) (1.0) (1.3) (0.8)	50.0 15.0 16.3 49.3 12.3 7.6 46.4 49.3 10.3 10.1 27.7 47.3 35.5 27.1 14.4 49.4 36.1	(0.0) (3.6) (0.1) (0.0) (3.5) (0.3) (0.7) (0.0) (3.9) (3.3) (1.0) (0.3) (0.7) (0.2) (3.4) (0.2) (0.2)	89.4 100.0 9.3 99.1 97.7 96.7 73.0 100.0 100.0 48.8 91.9 95.0 98.7 58.2 100.0	(3.6)	75.3 100.0 0.0 92.8 100.0 100.0 92.4 54.0 98.3 100.0 94.1 76.5 84.9 98.6 100.0 62.3	(5.3)	30.5 100.0 0.6 39.3 98.2 100.0 67.7 75.7 100.0 98.1 97.3 72.5 84.2 81.2 100.0 38.9	(6.6) (1.8) (0.0) (0.3) (1.8) c (6.3) (0.3) c (1.4) (0.0) (6.7) (4.7) (0.6) c (5.0) (2.5)	90.7 1.0 0.0 96.5 100.0 18.6 29.1 97.3 97.8 75.3 67.2 79.9 92.4 92.6 9.6 38.6	(4.1) (0.0) c (2.6) c (5.5) (0.3) (2.7) (2.2) (4.5) (6.1) (3.7) (0.5) (4.1) (3.3) (3.4)	-9.3 -8.3 -99.1 -2.6 -2.3 -78.1 -43.9 -2.7 -2.2 -24.7 18.4 -12.0 -2.6 -6.1 -48.6 -61.4	(4. (0. (0. (2. (2. (4. (9. (6. (3. (4. (6. (3. (4. (4. (4. (4. (4. (4. (4. (4. (4. (4
Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	49.7 97.7 2.7 58.2 98.5 99.4 68.6 58.2 98.9 99.0 91.6 66.2 85.2 92.0 97.9	(1.6) (1.1) (0.0) (0.1) (0.9) (0.0) (1.8) (0.1) (0.8) (0.7) (0.7) (0.9) (0.7) (0.1) (1.0) (1.3)	50.0 15.0 16.3 49.3 12.3 7.6 46.4 49.3 10.1 27.7 47.3 35.5 27.1 14.4 49.4	(0.0) (3.6) (0.1) (0.0) (3.5) (0.3) (0.7) (0.0) (3.9) (3.3) (1.0) (0.3) (0.7) (0.2)	89.4 100.0 9.3 99.1 97.7 96.7 73.0 100.0 100.0 48.8 91.9 95.0 98.7 58.2	(3.6)	75.3 100.0 0.0 92.8 100.0 100.0 92.4 54.0 98.3 100.0 94.1 76.5 84.9 98.6 100.0 62.3	(5.3)	30.5 100.0 0.6 39.3 98.2 100.0 67.7 75.7 100.0 98.1 97.3 72.5 84.2 81.2 100.0 38.9	(6.6) (1.8) (0.0) (0.3) (1.8) C (6.3) (0.3) C (1.4) (0.0) (6.7) (4.7) (0.6) C	90.7 1.0 0.0 96.5 100.0 18.6 29.1 97.3 97.8 75.3 67.2 79.9 92.4 92.6 9.6	(4.1) (0.0) c (2.6) c (5.5) (0.3) (2.7) (2.2) (4.5) (6.1) (3.7) (0.5) (4.1)	-9.3 -8.3 -99.1 -2.6 -2.3 -78.1 -43.9 -2.7 -2.2 -24.7 18.4 -12.0 -2.6 -6.1 -48.6	(4. (0. (0. (2. (2. (4. (9. (6. (3. (4. (6. (3. (4. (4. (4. (4. (4. (4. (4. (4. (4. (4
Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	49.7 97.7 2.7 58.2 98.5 99.4 68.6 58.2 98.9 99.0 91.6 66.2 85.2 92.0 97.9 42.6 84.6	(1.6) (1.1) (0.0) (0.1) (0.9) (0.0) (1.8) (0.1) (0.8) (0.7) (0.7) (0.7) (0.7) (0.7) (1.0) (1.3) (0.8)	50.0 15.0 16.3 49.3 12.3 7.6 46.4 49.3 10.3 10.1 27.7 47.3 35.5 27.1 14.4 49.4 36.1	(0.0) (3.6) (0.1) (0.0) (3.5) (0.3) (0.7) (0.0) (3.9) (3.3) (1.0) (0.3) (0.7) (0.2) (3.4) (0.2) (0.2)	89.4 100.0 9.3 99.1 97.7 96.7 73.0 100.0 100.0 48.8 91.9 95.0 98.7 58.2 100.0	(3.6)	75.3 100.0 0.0 92.8 100.0 100.0 92.4 54.0 98.3 100.0 94.1 76.5 84.9 98.6 100.0 62.3	(5.3)	30.5 100.0 0.6 39.3 98.2 100.0 67.7 75.7 100.0 98.1 97.3 72.5 84.2 81.2 100.0 38.9	(6.6) (1.8) (0.0) (0.3) (1.8) c (6.3) (0.3) c (1.4) (0.0) (6.7) (4.7) (0.6) c (5.0) (2.5)	90.7 1.0 0.0 96.5 100.0 18.6 29.1 97.3 97.8 75.3 67.2 79.9 92.4 92.6 9.6 38.6	(4.1) (0.0) c (2.6) c (5.5) (0.3) (2.7) (2.2) (4.5) (6.1) (3.7) (0.5) (4.1) (3.3) (3.4)	-9.3 -8.3 -99.1 -2.6 -2.3 -78.1 -43.9 -2.7 -2.2 -24.7 18.4 -12.0 -2.6 -6.1 -48.6 -61.4	(4. (0. (0. (2. (2. (4. (9. (6. (3. (3. (3. (3. (3. (3. (3. (3. (3. (3
Kosovo Lebanon Lithuania	49.7 97.7 2.7 58.2 98.5 99.4 68.6 58.2 98.9 91.6 66.2 85.2 92.0 97.9 42.6 84.6 95.9	(1.6) (1.1) (0.0) (0.1) (0.9) (0.0) (1.8) (0.7) (0.7) (0.7) (0.7) (0.1) (1.3) (0.8) (1.0)	50.0 15.0 16.3 49.3 12.3 7.6 46.4 49.3 10.3 10.1 27.7 47.3 35.5 27.1 14.4 49.4 36.1 19.7	(0.0) (3.6) (0.1) (0.0) (3.5) (0.3) (0.7) (0.0) (3.9) (3.3) (1.0) (0.3) (0.7) (0.2) (3.4) (0.2) (0.7) (0.2)	89.4 100.0 9.3 99.1 99.1 97.7 96.7 73.0 100.0 100.0 100.0 48.8 91.9 95.0 98.7 58.2 100.0	(3.6)	75.3 100.0 0.0 92.8 100.0 100.0 92.4 54.0 98.3 100.0 94.1 76.5 84.9 98.6 100.0 62.3 100.0	(5.3)	30.5 100.0 0.6 39.3 98.2 100.0 67.7 75.7 100.0 98.1 97.3 72.5 84.2 81.2 100.0 90.8	(6.6) (1.8) (0.0) (0.3) (1.8) c (6.3) (0.3) c (1.4) (0.0) (6.7) (4.7) (0.6) c (5.0) (2.5) (5.5)	90.7 1.0 0.0 96.5 100.0 18.6 29.1 97.8 75.3 67.2 79.9 92.4 92.6 9.6 38.6	(4.1) (0.0) c (2.6) c (5.5) (0.3) (2.7) (2.2) (4.5) (6.1) (3.7) (0.5) (4.1) (3.3) (3.4) (3.1)	-9.3 -8.3 -99.1 -2.6 2.3 -78.1 -43.9 -2.7 -2.2 -24.7 18.4 -12.0 -6.1 -48.6 -6.1 -48.6	(4. (4. (6. (3. (3. (3. (3. (3. (3. (4. (4. (4. (4. (4. (4. (4. (4. (4. (4

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex:

* Coverage is too small to ensure comparability (see Annex A4).

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[Part 2/3]

Table II.4.10 Attendance at public schools, science performance and school characteristics

						location						By educa	ation level		
		(few	a or village er than	(3.0	wn 00 to	(or	ity ver	City		educ	econdary ation	educ	econdary cation	ICCED 2	ICCEP
		%	people) S.E.	%	S.E.	%	9 people) S.E.	% dif.	ural area S.E.	%	S.E.	%	ED 3) S.E.	% dif.	S.E.
	Australia	78.5	(7.1)	59.8	(3.0)	53.7	(1.4)	-24.8	(7.3)	55.4	(0.8)	60.8	(2.2)	5.3	(2.2)
	Austria	90.8	(5.6)	92.5	(2.5)	77.8	(5.5)	-13.0	(7.9)	95.3	(3.3)	87.2	(2.2)	-8.0	(3.4)
5	Belgium	W	W	W	W	W	W	W	W	W	W	W	W	W	W
	Canada	99.9	(0.1)	92.4	(1.9)	87.5	(1.9)	-12.4	(1.9)	79.4	(2.6)	91.7	(0.9)	12.3	(2.3)
	Chile	81.5	(14.5)	48.4	(5.7)	29.7	(3.0)	-51.8	(15.0)	70.7	(5.7)	34.8	(1.6)	-35.9	(6.0
	Czech Republic	97.0	(2.1)	94.3	(1.8)	82.7	(4.0)	-14.3	(4.3)	97.6	(0.8)	84.8	(2.8)	-12.8	(2.7
	Denmark	60.2	(8.6)	83.4	(2.9)	65.9	(8.4)	5.7	(12.1)	76.7	(2.3)	m	m (4.0)	m	(4.1
	Estonia	97.6 100.0	(2.4)	95.0	(1.5)	95.3 84.1	(1.6)	-2.3	(2.9)	95.8 95.5	(1.0)	94.7	(4.0)	-1.1	(4.1
	Finland France	65.8	(13.4)	100.0 81.4	(2.2)	78.0	(5.1) (4.3)	-15.9 12.2	(5.1) (13.6)	79.4	(1.5)	78.9	m (1.3)	-0.5	(3.0
ì	Germany	82.2	(10.0)	95.2	(1.5)	90.1	(3.9)	8.0	(10.7)	92.5	(1.7)	99.1	(0.8)	6.6	(1.5
	Greece	95.8	(3.1)	96.3	(1.7)	94.1	(2.2)	-1.7	(3.8)	100.0	(1.7)	94.8	(0.7)	-5.2	(0.7
	Hungary	89.6	(9.9)	85.2	(3.5)	77.9	(4.1)	-11.7	(11.2)	90.9	(3.6)	81.0	(2.5)	-9.9	(4.3
Ī	Iceland	100.0	С	100.0	С	98.0	(0.2)	-2.0	(0.2)	99.4	(0.1)	m	m	m	1
	Ireland	58.9	(8.0)	44.4	(4.0)	24.7	(6.1)	-34.2	(11.1)	43.4	(1.2)	41.4	(1.4)	-2.0	(1.2
	Israel	m	m	m	m	m	m	m	m	m	m	m	m	m	1
	Italy	98.2	(1.3)	98.1	(0.8)	90.5	(3.6)	-7.7	(3.8)	100.0	C	95.9	(1.2)	-4.1	(1.2
į	Japan	m	m	85.6	(4.2)	61.5	(2.0)	m	m	m	m	68.2	(1.0)	m	1
	Korea	m	m	60.1	(12.9)	66.3	(4.1)	m	m (O. E)	78.7	(6.1)	64.0	(4.2)	-14.7	(7
	Latvia	100.0	С	97.5	(1.3)	97.4	(0.7)	-2.6	(0.7)	98.1	(0.7)	95.9	(4.0)	-2.2	(4.
	Luxembourg	07.4	(2.5)	93.1	(0.1)	72.8	(0.1)	m 19.7	(2 O)	87.2	(0.1)	80.7	(0.1)	-6.5	(0.
	Mexico Netherlands	97.4 m	(2.5) m	94.4 37.6	(1.9)	78.8 45.2	(2.3)	-18.7 m	(3.0) m	90.1 40.4	(2.1)	85.9 38.4	(1.8)	-4.2 -2.0	(2.
	New Zealand	82.8	(13.6)	96.1	(2.6)	92.0	(2.0)	9.1	(14.2)	92.2	(3.5)	93.5	(1.2)	1.4	(2.
	Norway	100.0	(13.0) C	97.9	(1.2)	97.1	(3.0)	-2.9	(3.0)	98.1	(1.0)	93.3 m	(1.2) m	m	(2.
	Poland	98.7	(1.2)	98.8	(1.2)	90.1	(3.0)	-8.7	(3.3)	96.5	(1.0)	m	m	m	
	Portugal	100.0	(0.0)	97.8	(1.4)	80.4	(4.8)	-19.6	(4.8)	98.8	(0.9)	92.2	(0.7)	-6.6	(1.
	Slovak Republic	98.1	(1.6)	87.7	(2.5)	78.6	(7.6)	-19.6	(7.6)	92.9	(2.1)	84.4	(3.5)	-8.5	(3.
	Slovenia	85.5	(1.1)	99.1	(0.0)	94.7	(0.1)	9.2	(1.1)	100.0	С	97.3	(0.0)	-2.7	(0.
	Spain	96.2	(3.9)	79.1	(2.5)	46.7	(5.1)	-49.5	(6.7)	68.8	(1.2)	m	m	m	
	Sweden	93.0	(5.4)	87.0	(2.3)	68.8	(4.4)	-24.2	(7.3)	81.8	(1.0)	100.0	С	18.2	(1.
	Switzerland	82.4	(8.0)	95.3	(1.4)	92.9	(5.4)	10.5	(11.2)	95.0	(1.0)	90.1	(1.9)	-4.8	(1.
	Turkey	100.0	C	98.4	(1.4)	93.2	(3.4)	-6.8	(3.4)	100.0	С	95.1	(2.2)	-4.9	(2.
	United Kingdom	86.5	(8.3)	95.4	(2.0)	90.5	(3.7)	4.0	(9.6)	100.0	C (1.7)	93.7	(1.7)	-6.3	(1.
	United States	93.2	(6.0)	91.7	(2.8)	93.0	(3.8)	-0.3	(7.8)	94.1	(1.7)	92.2	(1.3)	-2.0	(1
	OECD average	90.0	(1.2)	85.3	(0.6)	77.1	(0.7)	-9.9	(1.5)	86.4	(0.4)	80.7	(0.5)	-4.6	(0.2
	Albania	94.9	(0.9)	91.3	(2.2)	78.9	(7.0)	-16.0	(7.0)	94.1	(1.5)	85.0	(2.8)	-9.1	(3.5
	Algeria	100.0	С	98.7	(1.3)	96.5	(3.3)	-3.5	(3.3)	98.8	(1.1)	97.5	(2.5)	-1.3	(2.
	Brazil B-S-J-G (China)	100.0 94.1	(8.6)	93.4 94.9	(1.6)	77.1 81.9	(3.1)	-22.9 -12.1	(3.1)	92.5 88.2	(2.0)	83.9 91.2	(1.6)	-8.6 3.0	(2.
	Bulgaria	100.0	(0.0) C	98.9	(1.1)	98.6	(1.1)	-12.1	(1.1)	100.0	(1.5) c	98.8	(0.8)	-1.2	(0.
	CABA (Argentina)	m	m	m	m	51.0	(5.1)	m	m	50.8	(4.5)	51.4	(18.8)	0.6	(18.
	Colombia	87.7	(6.5)	90.6	(2.8)	63.2	(3.1)	-24.5	(7.5)	81.1	(2.1)	72.6	(2.1)	-8.5	(2.
	Costa Rica	95.9	(2.9)	87.8	(2.6)	70.0	(9.2)	-25.9	(8.7)	86.6	(2.5)	88.7	(2.6)	2.1	(2.
	Croatia	m	m	99.9	(0.1)	95.8	(2.5)	m	m	m	m	97.7	(1.1)	m	
	Cyprus*	77.4	(0.2)	85.9	(0.1)	81.2	(0.2)	3.8	(0.3)	95.0	(0.7)	83.3	(0.1)	-11.7	(0.
	Dominican Republic	94.9	(3.1)	80.3	(3.4)	59.2	(7.8)	-35.7	(8.2)	94.2	(1.6)	73.4	(2.1)	-20.8	(2.
	FYROM	100.0	С	98.9	(0.0)	96.7	(0.0)	-3.3	(0.0)	m	m	98.1	(0.0)	m	
	Georgia	99.7	(0.2)	93.3	(1.6)	87.1	(1.9)	-12.6	(1.9)	96.1	(0.9)	91.5	(0.9)	-4.6	(0.
	Hong Kong (China)	m	m (F.O)	m	m	6.5	(0.3)	m	m (0.2)	6.4	(0.3)	6.6	(0.3)	0.2	(0.
	Indonesia	48.7 90.5	(5.0)	67.7	(3.3)	45.5	(7.5)	-3.2	(9.3)	63.7	(1.6)	54.1	(2.6)	-9.6	(3.
	Jordan Kosovo	96.8	(5.9)	82.9 98.9	(2.6)	71.6 94.8	(4.4)	-18.8 -2.0	(8.1)	80.0 99.6	(1.1)	96.8	m (0.6)	-2.8	(0.
	Lebanon	61.4	(6.8)	50.9	(3.3)	37.4	(6.0)	-2.0 -24.0	(9.8)	63.1	(3.2)	44.4	(1.7)	-18.7	(3.
	Lithuania	100.0	(0.0) C	98.9	(0.9)	95.1	(2.7)	-4.9	(2.7)	97.7	(1.1)	m	(1.7) m	m	().
	Macao (China)	m	m	m	(0. <i>5</i>)	2.7	(0.0)	m	(2.7) m	3.2	(0.1)	2.3	(0.1)	-0.9	(0.
	Malta	60.0	(0.2)	57.5	(0.1)	m	m	m	m	m	m	58.1	(0.1)	m	(
	Moldova	99.1	(0.8)	100.0	Ć	93.9	(4.2)	-5.3	(4.2)	98.7	(0.8)	94.9	(5.1)	-3.8	(5.
	Montenegro	m	m	100.0	С	100.0	С	m	m	100.0	С	99.4	(0.0)	-0.6	(0.
	Peru	88.3	(3.7)	65.4	(3.1)	49.1	(7.7)	-39.2	(9.0)	81.4	(1.6)	64.4	(2.1)	-17.1	(2.
	Qatar	90.5	(0.3)	64.0	(0.2)	49.9	(0.1)	-40.6	(0.3)	62.0	(0.3)	57.2	(0.1)	-4.8	(0.
	Romania	100.0	С	99.3	(0.7)	97.8	(2.2)	-2.2	(2.2)	98.9	(0.8)	m	m (2.5)	m	(2
	Russia	100.0	C	100.0	C	98.0	(1.3)	-2.0	(1.3)	99.5	(0.5)	95.8	(2.5)	-3.6	(2.
	Singapore Chinese Taipei	m	m	66.6	m (4.1)	91.8 65.5	(0.8)	m	m	87.7 89.3	(14.0) (0.7)	91.8 53.7	(0.4)	4.2 -35.6	(13.
	Thailand	82.0	m (4.2)	86.3	(4.1)	87.4	(5.7)	5.5	m (8.5)	89.3	(0.7)	84.1	(0.8)	-35.6	(2.
	Trinidad and Tobago	96.9	(0.3)	91.1	(0.1)	07.4 m	(3.7) m	3.3 m	(o.5)	92.0	(0.2)	92.1	(0.0)	0.1	(0.
	Tunisia	100.0	(0.3) C	99.0	(0.6)	95.0	(3.2)	-5.0	(3.2)	97.4	(1.5)	98.2	(1.3)	0.1	(1.
	United Arab Emirates	93.9	(5.6)	66.5	(4.9)	26.8	(2.8)	-67.1	(6.4)	45.5	(3.8)	42.2	(1.6)	-3.4	(4.
	Uruguay	100.0	(3.0) C	92.3	(1.5)	71.8	(2.5)	-28.2	(2.5)	96.3	(0.4)	77.5	(1.2)	-18.8	(1.
	Viet Nam	96.7	(1.8)	95.8	(2.7)	94.8	(2.8)	-2.0	(3.3)	98.5	(2.0)	95.7	(1.0)	-2.8	(1.
		03.3	(4.5)	82 A	(2.1)	71.2	(3.6)	_22.0	(5.9)	20.0					
	Argentina** Kazakhstan**	93.3 100.0	(4.5) c	82.0 99.8	(3.1) (0.2)	71.3 90.7	(3.6)	-22.0 -9.3	(5.8)	82.3 99.6	(1.8) (0.5)	76.1 99.7	(2.3)	- 6.2 0.2	(2.

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

** See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 3/3]

Table II.4.10 Attendance at public schools, science performance and school characteristics

	Before account	ing for students' an	d schools' socio-e	conomic profile	After accounti	ng for students' an	d schools' socio-e	conomic prof
	when the st	science score udent attends c school	in student	d variance performance red x 100)	when the st	science score udent attends ic school	in student p	d variance performance red x 100)
	Score dif.	S.E.	%	S.E.	Score dif.	S.E.	%	S.E.
Australia	-43	(3.5)	4.5	(0.7)	0	(4.0)	16.6	(1.1)
Austria	-25	(15.6)	0.7	(0.9)	20	(8.9)	31.8	(1.8)
Belgium	W	w	W	W	W	W	W	W
Canada	-37	(7.4)	1.5	(0.6)	-10	(6.0)	11.6	(1.0)
Chile	-46	(4.8)	6.5	(1.4)	-4	(5.8)	26.6	(1.6)
Czech Republic	-7	(10.8)	0.0	(0.2)	26	(7.0)	33.7	(2.1)
Denmark	-16	(9.0)	0.5	(0.6)	-2	(6.9)	11.7	(1.4)
Estonia	-9	(14.2)	0.0	(0.2)	21	(9.7)	11.1	(1.3)
Finland	-42	(16.0)	0.8	(0.7)	-17	(11.7)	10.9	(1.4)
France	-27	(7.2)	1.2	(0.6)	21	(5.8)	38.8	(2.3)
Germany	-46	(8.8)	1.5	(0.8)	-15	(11.0)	35.4	(2.3)
Greece	-68	(11.3)	2.5	(0.7)	37	(10.7)	24.1	(2.7)
Hungary	-19	(9.9)	0.6	(0.6)	14	(5.6)	44.2	(2.2)
Iceland	C	(5.5) C	0.0	(0.1)	C	(3.0) C	5.1	(0.8)
Ireland	-26	(4.6)	2.1	(0.7)	-11	(4.3)	15.2	(1.3)
Israel	m	m (17.0)	m	m (0.2)	m	m	m	m (2.4)
Italy	7	(17.8)	0.0	(0.2)	41	(14.7)	25.1	(2.4)
Japan Karaa	16	(5.9)	0.7	(0.5)	50	(5.2)	33.9	(2.2)
Korea	-20	(8.3)	1.0	(0.9)	-7	(5.8)	18.0	(2.1)
Latvia	-11	(18.2)	0.0	(0.1)	10	(14.8)	12.4	(1.4)
Luxembourg	0	(2.9)	0.0	(0.0)	16	(2.9)	34.7	(1.0)
Mexico	-30	(8.3)	2.0	(1.0)	16	(5.5)	17.7	(2.0)
Netherlands	4	(13.0)	0.0	(0.4)	-5	(8.8)	36.0	(4.7)
New Zealand	-67	(11.1)	2.7	(1.0)	-7	(15.2)	19.6	(1.9)
Norway	1	(22.7)	0.0	(0.1)	1	(20.3)	8.7	(0.9)
Poland	-67	(12.0)	1.9	(0.7)	-18	(6.7)	15.5	(1.5)
Portugal	-50	(12.2)	1.6	(0.6)	8	(12.7)	20.0	(2.0)
Slovak Republic	-22	(15.4)	0.5	(0.7)	2	(7.2)	30.4	(2.3)
Slovenia	-64	(10.4)	1.1	(0.4)	8	(10.2)	35.5	(1.3)
Spain	-30	(4.5)	2.4	(0.7)	8	(4.2)	14.4	(1.2)
Sweden	-15	(8.1)	0.3	(0.3)	15	(7.2)	16.6	(1.7)
Switzerland	-16	(13.3)	0.1	(0.3)	31	(15.6)	24.9	(2.0)
Turkey	-4	(20.0)	0.0	(0.3)	61	(18.0)	28.9	(4.1)
United Kingdom	-65	(10.7)	2.6	(0.9)	6	(5.9)	19.2	(1.8)
United States	-17	(9.8)	0.2	(0.3)	26	(16.2)	14.6	(1.7)
OECD average	-28	(2.1)	1.4	(0.1)	10	(1.8)	22.9	(0.4)
Albania	m	m	m	m	m	m	m	m
Algeria	С	С	1.1	(1.8)	С	C	10.4	(3.3)
		C						
	-94	(8.5)	13.8	(2.4)	-25	(9.9)	22.2	(2.2)
Brazil			13.8 0.0	(2.4)	-25 9	(9.9)	22.2 34.7	(2.2)
	-94	(8.5)						
Brazil B-S-J-G (China)	-94 -6	(8.5) (15.1)	0.0	(0.2)	9	(14.8)	34.7	(3.0)
Brazil B-S-J-G (China) Bulgaria CABA (Argentina)	-94 -6 c	(8.5) (15.1) c (12.7)	0.0 0.1	(0.2) (0.1) (3.9)	9 c	(14.8) c (10.6)	34.7 39.2 33.6	(3.0) (2.8) (3.7)
Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia	-94 -6 c -47 -53	(8.5) (15.1) c (12.7) (7.2)	0.0 0.1 7.4 8.2	(0.2) (0.1) (3.9) (2.1)	9 c 17 -4	(14.8) c (10.6) (6.2)	34.7 39.2 33.6 20.3	(3.0) (2.8) (3.7) (2.5)
Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica	-94 -6 c -47 -53 6	(8.5) (15.1) c (12.7) (7.2) (8.5)	0.0 0.1 7.4 8.2 0.1	(0.2) (0.1) (3.9) (2.1) (0.3)	9 c 17	(14.8) c (10.6) (6.2) (5.3)	34.7 39.2 33.6 20.3 22.4	(3.0) (2.8) (3.7) (2.5) (2.1)
Brazil B-S-J-C (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia	-94 -6 c -47 -53	(8.5) (15.1) c (12.7) (7.2)	0.0 0.1 7.4 8.2	(0.2) (0.1) (3.9) (2.1)	9 c 17 -4	(14.8) c (10.6) (6.2)	34.7 39.2 33.6 20.3	(3.0) (2.8) (3.7) (2.5)
Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus*	-94 -6 c -47 -53 6 -17 -36	(8.5) (15.1) c (12.7) (7.2) (8.5) (16.6) (3.1)	0.0 0.1 7.4 8.2 0.1 0.1 2.1	(0.2) (0.1) (3.9) (2.1) (0.3) (0.2) (0.4)	9 c 17 -4 -4 -2	(14.8) c (10.6) (6.2) (5.3) (11.8) (3.7)	34.7 39.2 33.6 20.3 22.4 26.0 17.4	(3.0) (2.8) (3.7) (2.5) (2.1) (2.0) (0.9)
Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic	-94 -6 c -47 -53 6 -17 -36 -51	(8.5) (15.1) c (12.7) (7.2) (8.5) (16.6) (3.1) (8.1)	0.0 0.1 7.4 8.2 0.1 0.1 2.1 8.6	(0.2) (0.1) (3.9) (2.1) (0.3) (0.2) (0.4) (2.6)	9 c 17 -4 -4 -2 14	(14.8) c (10.6) (6.2) (5.3) (11.8) (3.7) (9.2)	34.7 39.2 33.6 20.3 22.4 26.0 17.4 26.4	(3.0) (2.8) (3.7) (2.5) (2.1) (2.0) (0.9) (3.2)
Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM	-94 -6 -6 -47 -53 -6 -17 -36 -51 -59	(8.5) (15.1) c (12.7) (7.2) (8.5) (16.6) (3.1) (8.1) (5.6)	0.0 0.1 7.4 8.2 0.1 0.1 2.1 8.6 0.9	(0.2) (0.1) (3.9) (2.1) (0.3) (0.2) (0.4) (2.6) (0.2)	9 c 17 -4 -4 -2 14 13	(14.8) c (10.6) (6.2) (5.3) (11.8) (3.7) (9.2) (6.2)	34.7 39.2 33.6 20.3 22.4 26.0 17.4 26.4	(3.0) (2.8) (3.7) (2.5) (2.1) (2.0) (0.9) (3.2) (1.1)
Brazil Br-S-J-G (China) B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia	-94 -6 -6 -47 -53 -6 -17 -36 -51 -59	(8.5) (15.1) c (12.7) (7.2) (8.5) (16.6) (3.1) (8.1) (5.6) (5.9)	0.0 0.1 7.4 8.2 0.1 0.1 2.1 8.6 0.9 2.6	(0.2) (0.1) (3.9) (2.1) (0.3) (0.2) (0.4) (2.6) (0.2) (0.6)	9 c 17 -4 -4 -2 14 13 -14	(14.8) c (10.6) (6.2) (5.3) (11.8) (3.7) (9.2) (6.2) (7.6)	34.7 39.2 33.6 20.3 22.4 26.0 17.4 26.4 14.2	(3.0) (2.8) (3.7) (2.5) (2.1) (2.0) (0.9) (3.2) (1.1) (1.6)
Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China)	-94 -6 -6 -47 -53 -6 -17 -36 -51 -59 -56 16	(8.5) (15.1) c (12.7) (7.2) (8.5) (16.6) (3.1) (8.1) (5.6) (5.9) (6.5)	0.0 0.1 7.4 8.2 0.1 0.1 2.1 8.6 0.9 2.6 0.3	(0.2) (0.1) (3.9) (2.1) (0.3) (0.2) (0.4) (2.6) (0.2) (0.6) (0.2)	9 c 17 -4 -4 -2 14 13 -14 -12	(14.8) c (10.6) (6.2) (5.3) (11.8) (3.7) (9.2) (6.2) (7.6) (6.0)	34.7 39.2 33.6 20.3 22.4 26.0 17.4 26.4 14.2 15.0 13.3	(3.0) (2.8) (3.7) (2.5) (2.1) (2.0) (0.9) (3.2) (1.1) (1.6) (1.8)
Brazil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China)	-94 -6 -6 -47 -53 -6 -17 -36 -51 -59 -56 16	(8.5) (15.1) c (12.7) (7.2) (8.5) (16.6) (3.1) (8.1) (5.6) (5.9) (6.5) (6.0)	0.0 0.1 7.4 8.2 0.1 0.1 2.1 8.6 0.9 2.6 0.3 1.3	(0.2) (0.1) (3.9) (2.1) (0.3) (0.2) (0.4) (2.6) (0.2) (0.6) (0.2) (1.0)	9 c 17 -4 -4 -2 14 13 -14 -12 16	(14.8) c (10.6) (6.2) (5.3) (11.8) (3.7) (9.2) (6.2) (7.6) (6.0) (4.6)	34.7 39.2 33.6 20.3 22.4 26.0 17.4 26.4 14.2 15.0 13.3 24.7	(3.0) (2.8) (3.7) (2.5) (2.1) (2.0) (0.9) (3.2) (1.1) (1.6) (1.8) (3.0)
Brazil B-S-J-G (China) B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan	-94 -6 -6 -47 -53 -6 -17 -36 -51 -59 -56 -16 -16 -30	(8.5) (15.1) c (12.7) (7.2) (8.5) (16.6) (3.1) (8.1) (5.6) (5.9) (6.5) (6.0)	0.0 0.1 7.4 8.2 0.1 0.1 2.1 8.6 0.9 2.6 0.3 1.3 2.0	(0.2) (0.1) (3.9) (2.1) (0.3) (0.2) (0.4) (2.6) (0.2) (0.6) (0.2) (1.0) (0.8)	9 c 17 -4 -4 -2 14 13 -14 -12 16 16	(14.8) c (10.6) (6.2) (5.3) (11.8) (3.7) (9.2) (6.2) (7.6) (6.0) (4.6) (6.8)	34.7 39.2 33.6 20.3 22.4 26.0 17.4 26.4 14.2 15.0 13.3 24.7 12.6	(3.0) (2.8) (3.7) (2.5) (2.1) (2.0) (0.9) (3.2) (1.1) (1.6) (1.8) (3.0) (2.2)
Brazil Br-S-J-G (China) B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo	-94 -6 -6 -47 -53 -6 -17 -36 -51 -59 -56 16 16 -30 -49	(8.5) (15.1) c (12.7) (7.2) (8.5) (16.6) (3.1) (8.1) (5.6) (5.9) (6.5) (6.0) (6.0) (13.3)	0.0 0.1 7.4 8.2 0.1 0.1 2.1 8.6 0.9 2.6 0.3 1.3 2.0	(0.2) (0.1) (3.9) (2.1) (0.3) (0.2) (0.4) (2.6) (0.2) (0.6) (0.2) (1.0) (0.8) (0.6)	9 c 17 -4 -4 -2 14 13 -14 -12 16 16 -3 17	(14.8) c (10.6) (6.2) (5.3) (11.8) (3.7) (9.2) (6.2) (7.6) (6.0) (4.6) (6.8) (13.1)	34.7 39.2 33.6 20.3 22.4 26.0 17.4 26.4 14.2 15.0 13.3 24.7 12.6 14.3	(3.0) (2.8) (3.7) (2.5) (2.1) (2.0) (0.9) (3.2) (1.1) (1.6) (1.8) (3.0) (2.2) (1.5)
Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon	-94 -6 -47 -53 -6 -17 -36 -51 -59 -56 16 -16 -30 -49 -61	(8.5) (15.1) c (12.7) (7.2) (8.5) (16.6) (3.1) (8.1) (5.6) (5.9) (6.5) (6.0) (6.0) (13.3) (6.9)	0.0 0.1 7.4 8.2 0.1 0.1 2.1 8.6 0.9 2.6 0.3 1.3 2.0 1.1	(0.2) (0.1) (3.9) (2.1) (0.3) (0.2) (0.4) (2.6) (0.2) (0.6) (0.2) (1.0) (0.8) (0.6) (2.4)	9 c 17 -4 -4 -2 14 13 -14 -12 16 16 -3 17 -17	(14.8) c (10.6) (6.2) (5.3) (11.8) (3.7) (9.2) (6.2) (7.6) (6.0) (4.6) (6.8) (13.1) (7.1)	34.7 39.2 33.6 20.3 22.4 26.0 17.4 26.4 14.2 15.0 13.3 24.7 12.6 14.3 19.5	(3.0) (2.8) (3.7) (2.5) (2.1) (2.0) (0.9) (3.2) (1.1) (1.6) (3.0) (2.2) (1.5) (3.2)
Brazil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania	-94 -6 -6 -47 -53 -6 -17 -36 -51 -59 -56 -16 -30 -49 -61 -72	(8.5) (15.1) c (12.7) (7.2) (8.5) (16.6) (3.1) (5.6) (5.9) (6.5) (6.0) (6.0) (13.3) (6.9) (31.8)	0.0 0.1 7.4 8.2 0.1 0.1 2.1 8.6 0.9 2.6 0.3 1.3 2.0 1.1 11.2	(0.2) (0.1) (3.9) (2.1) (0.3) (0.2) (0.4) (2.6) (0.2) (0.6) (0.2) (1.0) (0.8) (0.6) (2.4) (1.5)	9 c 17 -4 -4 -2 14 13 -14 -12 16 16 -3 17 -17	(14.8) c (10.6) (6.2) (5.3) (11.8) (3.7) (9.2) (6.2) (7.6) (6.0) (4.6) (6.8) (13.1) (7.1) (25.0)	34.7 39.2 33.6 20.3 22.4 26.0 17.4 26.4 14.2 15.0 13.3 24.7 12.6 14.3 19.5 21.4	(3.0) (2.8) (3.7) (2.5) (2.1) (2.0) (0.9) (3.2) (1.1) (1.6) (1.8) (3.0) (2.2) (1.5) (3.2) (2.4)
Brazil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China)	-94 -6 -6 -47 -53 -6 -17 -36 -51 -59 -56 -16 -16 -30 -49 -61 -72	(8.5) (15.1) c (12.7) (7.2) (8.5) (16.6) (3.1) (8.1) (5.6) (5.9) (6.5) (6.0) (13.3) (6.9) (31.8) c	0.0 0.1 7.4 8.2 0.1 0.1 2.1 8.6 0.9 2.6 0.3 1.3 2.0 1.1 11.2	(0.2) (0.1) (3.9) (2.1) (0.3) (0.2) (0.4) (2.6) (0.2) (0.6) (0.2) (1.0) (0.8) (0.6) (2.4) (1.5) (0.3)	9 c 17 -4 -4 -2 14 13 -14 -12 16 16 -3 17 -17 -10 c	(14.8) c (10.6) (6.2) (5.3) (11.8) (3.7) (9.2) (6.2) (7.6) (6.0) (4.6) (6.8) (13.1) (7.1) (25.0) c	34.7 39.2 33.6 20.3 22.4 26.0 17.4 26.4 14.2 15.0 13.3 24.7 12.6 14.3 19.5 21.4 2.9	(3.0) (2.8) (3.7) (2.5) (2.1) (2.0) (0.9) (3.2) (1.1) (1.6) (1.8) (3.0) (2.2) (1.5) (3.2) (2.4) (0.5)
Brazil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta	-94 -6 -6 -47 -53 -6 -17 -36 -51 -59 -56 -16 -16 -30 -49 -61 -72 -79	(8.5) (15.1) c (12.7) (7.2) (8.5) (16.6) (3.1) (8.1) (5.6) (5.9) (6.5) (6.0) (6.0) (13.3) (6.9) (31.8) c (3.3)	0.0 0.1 7.4 8.2 0.1 0.1 2.1 8.6 0.9 2.6 0.3 1.3 2.0 1.1 11.2 1.4	(0.2) (0.1) (3.9) (2.1) (0.3) (0.2) (0.4) (2.6) (0.2) (0.6) (0.2) (1.0) (0.8) (0.6) (2.4) (1.5) (0.3) (0.9)	9 c 17 -4 -4 -2 14 13 -14 -12 16 16 -3 17 -17 -10 c	(14.8) c (10.6) (6.2) (5.3) (11.8) (3.7) (9.2) (6.2) (7.6) (6.0) (4.6) (6.8) (13.1) (7.1) (25.0) c (5.7)	34.7 39.2 33.6 20.3 22.4 26.0 17.4 26.4 14.2 15.0 13.3 24.7 12.6 14.3 19.5 21.4 2.9 22.5	(3.0) (2.8) (3.7) (2.5) (2.1) (2.0) (0.9) (3.2) (1.1) (1.6) (1.8) (3.0) (2.2) (1.5) (3.2) (2.4) (0.5) (1.2)
Brazil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova	-94 -6 -7 -53 -6 -17 -36 -51 -59 -56 -16 -30 -49 -61 -72 -79	(8.5) (15.1) c (12.7) (7.2) (8.5) (16.6) (3.1) (5.6) (5.9) (6.5) (6.0) (6.0) (13.3) (6.9) (31.8) c (3.3)	0.0 0.1 7.4 8.2 0.1 0.1 2.1 8.6 0.9 2.6 0.3 1.3 2.0 1.1 11.2 1.4 1.0 0.5	(0.2) (0.1) (3.9) (2.1) (0.3) (0.2) (0.4) (2.6) (0.2) (0.6) (0.2) (1.0) (0.8) (0.6) (2.4) (1.5) (0.3) (0.9) (0.9)	9 c 17 -4 -4 -4 -12 14 13 -14 -12 16 16 -3 17 -17 -10 c	(14.8) c (10.6) (6.2) (5.3) (11.8) (3.7) (9.2) (6.2) (7.6) (6.0) (4.6) (6.8) (13.1) (7.1) (25.0) c (5.7) c	34.7 39.2 33.6 20.3 22.4 26.0 17.4 26.4 14.2 15.0 13.3 24.7 12.6 14.3 19.5 21.4 2.9 22.5 14.2	(3.0) (2.8) (3.7) (2.5) (2.1) (2.0) (0.9) (3.2) (1.1) (1.6) (3.0) (2.2) (1.5) (3.2) (2.4) (0.5) (1.2)
Brazil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro	-94 -6 -6 -47 -53 -6 -17 -36 -51 -59 -56 -16 -30 -49 -61 -72 -79	(8.5) (15.1) c (12.7) (7.2) (8.5) (16.6) (3.1) (8.1) (5.6) (5.9) (6.5) (6.0) (13.3) (6.9) (31.8) c (3.3) c c	0.0 0.1 7.4 8.2 0.1 0.1 2.1 8.6 0.9 2.6 0.3 1.3 2.0 1.1 11.2 1.4 1.0 11.4 0.5 0.1	(0.2) (0.1) (3.9) (2.1) (0.3) (0.2) (0.4) (2.6) (0.2) (1.0) (0.8) (0.6) (2.4) (1.5) (0.3) (0.9) (0.9)	9 c 17 -4 -4 -4 -2 14 13 -12 16 16 -3 17 -10 c 13 c c	(14.8) c (10.6) (6.2) (5.3) (11.8) (3.7) (9.2) (6.2) (7.6) (6.0) (4.6) (6.8) (13.1) (7.1) (25.0) c c c c	34.7 39.2 33.6 20.3 22.4 26.0 17.4 26.4 14.2 15.0 13.3 24.7 12.6 14.3 19.5 21.4 2.9 22.5 14.2 17.1	(3.0) (2.8) (3.7) (2.5) (2.1) (2.0) (0.9) (3.2) (1.1) (1.6) (1.8) (3.0) (2.2) (1.5) (3.2) (2.4) (0.5) (1.2) (1.7) (0.9)
Brazil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru	-94 -6 -6 -47 -53 -6 -17 -36 -51 -59 -56 -16 -30 -49 -61 -72 -79 -79 -79 -79 -79 -79 -79 -79 -79 -79	(8.5) (15.1) c (12.7) (7.2) (8.5) (16.6) (3.1) (8.1) (5.6) (5.9) (6.5) (6.0) (13.3) (6.9) (31.8) c (3.3) c (5.3)	0.0 0.1 7.4 8.2 0.1 0.1 2.1 8.6 0.9 2.6 0.3 1.3 2.0 1.1 11.2 1.4 1.0 11.4 0.5 0.1 12.6	(0.2) (0.1) (3.9) (2.1) (0.3) (0.2) (0.4) (2.6) (0.2) (0.6) (0.2) (1.0) (0.8) (0.6) (2.4) (1.5) (0.3) (0.9) (0.9) (0.1) (2.1)	9 c 17 -4 -4 -4 -2 114 13 -14 -12 116 16 -3 17 -10 c 13 c c -3 -3	(14.8) c (10.6) (6.2) (5.3) (11.8) (3.7) (9.2) (6.2) (7.6) (6.0) (4.6) (6.8) (13.1) (7.1) (25.0) c (5.7) c c (4.7)	34.7 39.2 33.6 20.3 22.4 26.0 17.4 26.4 14.2 15.0 13.3 24.7 12.6 14.3 19.5 21.4 2.9 22.5 14.2	(3.0) (2.8) (3.7) (2.5) (2.1) (2.0) (0.9) (3.2) (1.1) (1.6) (1.8) (3.0) (2.2) (1.5) (3.2) (2.4) (0.5) (1.2) (1.7) (0.9) (0.9)
Brazil Brazil G(China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar	-94 -6 -6 -47 -53 -6 -17 -36 -51 -59 -56 -16 -16 -30 -49 -61 -72 -79	(8.5) (15.1) c (12.7) (7.2) (8.5) (16.6) (3.1) (8.1) (5.6) (5.9) (6.5) (6.0) (13.3) (6.9) (31.8) c c (3.3) c c (5.3) (1.5)	0.0 0.1 7.4 8.2 0.1 0.1 2.1 8.6 0.9 2.6 0.3 1.3 2.0 1.1 11.2 1.4 1.0 11.4 0.5 0.1 12.6 13.9	(0.2) (0.1) (3.9) (2.1) (0.3) (0.2) (0.4) (2.6) (0.2) (0.6) (0.2) (1.0) (0.8) (0.6) (2.4) (1.5) (0.3) (0.9) (0.9) (0.1) (2.1) (0.5)	9 c 17 -4 -4 -4 -2 14 13 -14 -12 16 16 -3 17 -10 c 13 c c -3 -58	(14.8) c (10.6) (6.2) (5.3) (11.8) (3.7) (9.2) (6.2) (7.6) (6.0) (4.6) (6.8) (13.1) (7.1) (25.0) c c (4.7) (1.5)	34.7 39.2 33.6 20.3 22.4 26.0 17.4 26.4 14.2 15.0 13.3 24.7 12.6 14.3 19.5 21.4 2.9 22.5 14.2 17.1 29.9 21.9	(3.0) (2.8) (3.7) (2.5) (2.1) (2.0) (0.9) (3.2) (1.1) (1.6) (3.0) (2.2) (1.5) (3.2) (2.4) (0.5) (1.2) (1.7) (0.9) (2.2) (0.7)
Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Litihuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania	-94 -6 -6 -47 -53 -6 -17 -36 -51 -59 -56 -16 -30 -49 -61 -72 -72 -79 -74 -6 -74 -6	(8.5) (15.1) c (12.7) (7.2) (8.5) (16.6) (3.1) (8.1) (5.6) (5.9) (6.5) (6.0) (13.3) (6.9) (31.8) c c c (5.3) (1.5) c	0.0 0.1 7.4 8.2 0.1 0.1 2.1 8.6 0.9 2.6 0.3 1.3 2.0 1.1 11.2 1.4 1.0 11.4 0.5 0.1 12.6 0.9	(0.2) (0.1) (3.9) (2.1) (0.3) (0.2) (0.4) (2.6) (0.2) (1.0) (0.8) (0.6) (2.4) (1.5) (0.3) (0.9) (0.1) (2.1) (0.5) (0.2)	9 c 17 -4 -4 -4 -2 14 13 -14 -12 16 16 -3 17 -17 -10 c 13 c c -3 -58 c	(14.8) c (10.6) (6.2) (5.3) (11.8) (3.7) (9.2) (6.2) (7.6) (6.0) (4.6) (6.8) (13.1) (7.1) (25.0) c c (4.7) (1.5) c	34.7 39.2 33.6 20.3 22.4 26.0 17.4 26.4 14.2 15.0 13.3 24.7 12.6 14.3 19.5 21.4 2.9 22.5 14.2 17.1 29.9 21.9 23.4	(3.0) (2.8) (3.7) (2.5) (2.1) (2.0) (0.9) (3.2) (1.1) (1.6) (1.8) (3.0) (2.2) (1.5) (3.2) (2.4) (0.5) (1.2) (1.7) (0.9) (2.2) (0.7) (0.7)
Brazil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Iordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia	-94 -6 -6 -47 -53 -6 -17 -36 -51 -59 -56 -16 -30 -49 -61 -72 -79 -79 -79 -74 -6 -74 -72 -79 -74 -72 -75 -75 -74 -75 -76 -76 -77 -76 -77 -76 -77 -76 -77 -76 -77 -76 -77 -77	(8.5) (15.1) c (12.7) (7.2) (8.5) (16.6) (3.1) (8.1) (5.6) (5.9) (6.5) (6.0) (13.3) (6.9) (31.8) c (3.3) c (5.3) (1.5) c c	0.0 0.1 7.4 8.2 0.1 0.1 2.1 8.6 0.9 2.6 0.3 1.3 2.0 1.1 11.2 1.4 0.5 0.1 12.6 13.9 0.1 0.1	(0.2) (0.1) (3.9) (2.1) (0.3) (0.2) (0.4) (2.6) (0.2) (1.0) (0.8) (0.6) (2.4) (1.5) (0.3) (0.9) (0.9) (0.1) (2.1) (0.5) (0.2)	9 c 17 -4 -4 -4 -2 14 13 -14 -12 16 16 -3 17 -17 -10 c 13 c -3 -58 c c c	(14.8)	34.7 39.2 33.6 20.3 22.4 26.0 17.4 26.4 14.2 15.0 13.3 24.7 12.6 14.3 19.5 21.4 2.9 22.5 14.2 17.1 29.9 21.9 21.9 21.9 21.9	(3.0) (2.8) (3.7) (2.5) (2.1) (2.0) (0.9) (3.2) (1.1) (1.6) (1.8) (3.0) (2.2) (1.5) (3.2) (2.4) (0.5) (1.2) (1.7) (0.9) (2.2) (0.7) (2.9) (1.9)
Brazil Brazil BS-SI-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore	-94 -6 -6 -47 -53 -6 -17 -36 -51 -59 -56 -16 -30 -49 -61 -72 -79	(8.5) (15.1) c (12.7) (7.2) (8.5) (16.6) (3.1) (8.1) (5.6) (5.9) (6.5) (6.0) (6.0) (13.3) (6.9) (31.8) c c (5.3) (1.5) c (9.5)	0.0 0.1 7.4 8.2 0.1 0.1 2.1 8.6 0.9 2.6 0.3 1.3 2.0 1.1 11.2 1.4 1.0 11.4 0.5 0.1 12.6 13.9 0.1 0.1 0.2	(0.2) (0.1) (3.9) (2.1) (0.3) (0.2) (0.4) (2.6) (0.2) (1.0) (0.8) (0.6) (2.4) (1.5) (0.3) (0.9) (0.9) (0.1) (2.1) (0.5) (0.2) (0.2) (0.2) (0.2) (0.2) (0.2)	9 c 17 -4 -4 -4 -2 14 13 -14 -12 16 16 -3 17 -17 -10 c 13 c c -3 -58 c c 60 60	(14.8) c (10.6) (6.2) (5.3) (11.8) (3.7) (9.2) (6.2) (7.6) (6.0) (4.6) (6.8) (13.1) (7.1) (25.0) c (5.7) c c (4.7) (1.5) c (8.5)	34.7 39.2 33.6 20.3 22.4 26.0 17.4 26.4 14.2 15.0 13.3 24.7 12.6 14.3 19.5 21.4 2.9 22.5 14.2 17.1 29.9 21.9 23.4 9.7 28.3	(3.0) (2.8) (3.7) (2.5) (2.1) (2.0) (0.9) (3.2) (1.1) (1.6) (1.8) (3.0) (2.2) (2.4) (0.5) (1.2) (1.7) (0.9) (2.2) (0.7) (2.9) (1.8) (1.8)
Brazil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei	-94 -6 -6 -47 -53 -6 -17 -36 -51 -59 -56 -16 -30 -49 -61 -72 -c -79 -c -79 -c -79 -74 -74 -74 -77 -77 -77 -77 -77 -77 -77	(8.5) (15.1) c (12.7) (7.2) (8.5) (16.6) (3.1) (8.1) (5.6) (5.9) (6.5) (6.0) (13.3) (6.9) (31.8) c c (3.3) c c c (5.3) (1.5) c c (9.5) (5.3)	0.0 0.1 7.4 8.2 0.1 0.1 2.1 8.6 0.9 2.6 0.3 1.3 2.0 1.1 11.2 1.4 1.0 11.4 0.5 0.1 12.6 13.9 0.1 0.1 0.2 5.0	(0.2) (0.1) (3.9) (2.1) (0.3) (0.2) (0.4) (2.6) (0.2) (0.6) (0.2) (1.0) (0.8) (0.6) (2.4) (1.5) (0.3) (0.9) (0.9) (0.1) (2.1) (0.5) (0.2) (0.2) (0.2) (1.0)	9 c 17 -4 -4 -4 -2 14 13 -14 -12 16 16 -3 17 -17 -10 c -3 -58 - c	(14.8) c (10.6) (6.2) (5.3) (11.8) (3.7) (9.2) (6.2) (7.6) (6.0) (4.6) (6.8) (13.1) (7.1) (25.0) c (5.7) c c c (4.7) (1.5) c c (8.5) (3.5)	34.7 39.2 33.6 20.3 22.4 26.0 17.4 26.4 14.2 15.0 13.3 24.7 12.6 14.3 19.5 21.4 2.9 22.5 14.2 17.1 29.9 21.9 23.4 9.7 28.3 32.3	(3.0) (2.8) (3.7) (2.5) (2.1) (2.0) (0.9) (3.2) (1.1) (1.6) (3.0) (2.2) (1.5) (3.2) (2.4) (0.5) (1.2) (1.7) (0.9) (2.2) (1.7) (0.9) (2.2) (1.1) (1.2)
Brazil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Iordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand	-94 -6 -6 -47 -53 -6 -17 -36 -51 -59 -56 -16 -30 -49 -61 -72 -79	(8.5) (15.1) c (12.7) (7.2) (8.5) (16.6) (3.1) (8.1) (5.6) (5.9) (6.5) (6.0) (6.0) (13.3) (6.9) (31.8) c c (5.3) (1.5) c c (9.5) (5.3) (9.5)	0.0 0.1 7.4 8.2 0.1 0.1 2.1 8.6 0.9 2.6 0.3 1.3 2.0 1.1 11.2 1.4 0.5 0.1 12.6 13.9 0.1 0.1 0.2 5.0 1.6	(0.2) (0.1) (3.9) (2.1) (0.3) (0.2) (0.4) (2.6) (0.2) (0.6) (0.2) (1.0) (0.8) (0.6) (2.4) (1.5) (0.3) (0.9) (0.1) (2.1) (0.5) (0.2) (0.2) (0.2) (1.0)	9 c 17 -4 -4 -4 -2 14 13 -14 -12 16 16 -3 17 -17 -10 c 13 c -3 -58 c -6 0 41	(14.8) c (10.6) (6.2) (5.3) (11.8) (3.7) (9.2) (6.2) (7.6) (6.0) (4.6) (6.8) (13.1) (7.1) (25.0) c (5.7) c c (4.7) (1.5) c c (8.5) (3.5) (5.9)	34.7 39.2 33.6 20.3 22.4 26.0 17.4 26.4 14.2 15.0 13.3 24.7 12.6 14.3 19.5 21.4 2.9 22.5 14.2 17.1 29.9 21.9 23.4 9.7 28.3 32.3 21.3	(3.0) (2.8) (3.7) (2.5) (2.1) (2.0) (0.9) (3.2) (1.1) (1.6) (1.8) (3.0) (2.2) (1.5) (3.2) (2.4) (0.5) (1.2) (1.7) (0.9) (2.2) (0.7) (2.9) (1.8) (1.2) (2.4) (3.0)
Brazil Br-S-J-G (China) B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	-94 -6 -6 -47 -53 -6 -17 -36 -51 -59 -56 -16 -30 -49 -61 -72 -79 -79 -79 -74 -72 -74 -72 -77 -74 -72 -77 -77 -77 -77 -77 -77 -77 -77 -77	(8.5) (15.1) c (12.7) (7.2) (8.5) (16.6) (3.1) (8.1) (5.6) (5.9) (6.5) (6.0) (13.3) (6.9) (31.8) c c (5.3) (1.5) c c (9.5) (5.3) (9.5) (5.3)	0.0 0.1 7.4 8.2 0.1 0.1 2.1 8.6 0.9 2.6 0.3 1.3 2.0 1.1 11.2 1.4 1.0 11.4 0.5 0.1 12.6 13.9 0.1 0.1 0.2 5.0 1.6 0.9	(0.2) (0.1) (3.9) (2.1) (0.3) (0.2) (0.4) (2.6) (0.2) (0.6) (0.2) (1.0) (0.8) (0.6) (2.4) (1.5) (0.3) (0.9) (0.9) (0.1) (2.1) (0.5) (0.2) (0.2) (1.0) (0.3)	9 c 17 -4 -4 -4 -2 114 13 -14 -12 116 16 -3 17 -17 -10 c c 13 c c c 60 41 41 -14	(14.8) c (10.6) (6.2) (5.3) (11.8) (3.7) (9.2) (6.2) (7.6) (6.0) (4.6) (6.8) (13.1) (7.1) (25.0) c (5.7) c c c (4.7) (1.5) c (8.5) (3.5) (5.9) (5.4)	34.7 39.2 33.6 20.3 22.4 26.0 17.4 26.4 14.2 15.0 13.3 24.7 12.6 14.3 19.5 21.4 2.9 22.5 14.2 17.1 29.9 21.9 23.4 29.9 21.9 2	(3.0) (2.8) (3.7) (2.5) (2.1) (2.0) (0.9) (3.2) (1.1) (1.6) (1.8) (3.0) (2.2) (1.5) (3.2) (2.4) (0.5) (1.2) (1.7) (0.9) (2.2) (0.7) (2.9) (1.8) (1.2) (2.4) (3.0) (1.2)
Brazil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	-94 -6 -6 -47 -53 -51 -59 -56 -16 -30 -49 -61 -72 - c -79 - c -79 - c -17 -47 -28 -32 -8	(8.5) (15.1) c (12.7) (7.2) (8.5) (16.6) (3.1) (8.1) (5.6) (5.9) (6.5) (6.0) (6.0) (13.3) c c (5.3) (1.5) c c (5.3) (1.5) c (9.5) (5.3) (9.5) (5.8) (19.9)	0.0 0.1 7.4 8.2 0.1 0.1 2.1 8.6 0.9 2.6 0.3 1.3 2.0 1.1 11.2 1.4 1.0 11.4 0.5 0.1 12.6 13.9 0.1 0.1 0.2 5.0 1.6 0.9 0.0	(0.2) (0.1) (3.9) (2.1) (0.3) (0.2) (0.4) (2.6) (0.2) (0.6) (0.2) (1.0) (0.8) (0.6) (2.4) (1.5) (0.3) (0.9) (0.9) (0.1) (2.1) (0.5) (0.2) (0.2) (1.0) (1.1) (0.5)	9 c 17 -4 -4 -4 -2 14 13 -14 -12 16 16 -3 17 -17 -10 c c 3 3 -58 c c c 60 41 -14 44 44	(14.8) c (10.6) (6.2) (5.3) (11.8) (3.7) (9.2) (6.2) (7.6) (6.0) (4.6) (6.8) (13.1) (7.1) (25.0) c c (5.7) c c c (4.7) (1.5) c (8.5) (3.5) (5.9) (5.4) (17.7)	34.7 39.2 33.6 20.3 22.4 26.0 17.4 26.4 14.2 15.0 13.3 24.7 12.6 14.3 19.5 21.4 2.9 22.5 14.2 17.1 29.9 21.9 23.4 9.7 28.3 32.3 21.3 36.6 19.3	(3.0) (2.8) (3.7) (2.5) (2.1) (2.0) (0.9) (3.2) (1.1) (1.6) (3.0) (2.2) (2.4) (0.5) (1.2) (1.7) (0.9) (2.2) (0.7) (2.9) (1.8) (3.0) (1.2) (2.2) (0.7) (2.9) (1.8) (3.0) (2.2) (3.0) (3.2) (3.2) (4.1) (4.2) (5.1) (5.2) (6.2) (6.2) (6.2) (7.2)
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Brazil Br-S-J-G (China) B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	-94 -6 -6 -47 -53 -6 -17 -36 -51 -59 -56 -16 -30 -49 -61 -72 -79 -70 -79 -74 -74 -74 -77 -77 -77 -76 -86 -86 -86 -86 -86 -86 -86 -86 -86 -8	(8.5) (15.1) c (12.7) (7.2) (8.5) (16.6) (3.1) (8.1) (5.6) (5.9) (6.5) (6.0) (13.3) (6.9) (31.8) c (5.3) (1.5) c c (9.5) (5.3) (9.5) (5.8) (19.9) (5.2) (5.1) (9.6)	0.0 0.1 7.4 8.2 0.1 0.1 2.1 8.6 0.9 2.6 0.3 1.3 2.0 1.1 11.2 1.4 1.0 11.4 0.5 0.1 12.6 13.9 0.1 0.1 0.2 5.0 0.1 0.1 0.2 5.0 1.6 0.9 0.0 13.9 12.8 1.3	(0.2) (0.1) (3.9) (2.1) (0.3) (0.2) (0.4) (2.6) (0.2) (0.6) (0.2) (1.0) (0.8) (0.6) (2.4) (1.5) (0.3) (0.9) (0.9) (0.1) (2.1) (0.5) (0.2) (0.2) (1.0) (1.1) (0.5) (0.2) (0.2) (1.0) (1.1) (0.3) (0.2) (1.0) (1.1) (0.3) (0.2) (0.2) (1.0) (1.1) (0.3) (0.2) (0.2) (0.2) (1.0) (1.1) (0.3) (0.2) (1.0) (1.1) (0.3) (0.2) (1.0) (0.2) (0.2) (1.0) (1.1) (0.3) (0.2) (1.0) (0.2) (0.2) (0.2) (0.2) (1.0) (0.2) (0.2) (0.2) (0.3)	9 c 17 -4 -4 -4 -2 114 13 -14 -12 116 16 -3 17 -17 -10 c 13 -58 c c 60 41 -14 44 -53 21 52	(14.8) c (10.6) (6.2) (5.3) (11.8) (3.7) (9.2) (6.2) (7.6) (6.0) (4.6) (6.8) (13.1) (7.1) (25.0) c (5.7) c c (4.7) (1.5) c c (8.5) (3.5) (5.9) (5.4) (17.7) (4.8) (8.0)	34.7 39.2 33.6 20.3 22.4 26.0 17.4 26.4 14.2 15.0 13.3 24.7 12.6 14.3 19.5 21.4 2.9 22.5 14.2 17.1 29.9 21.9 23.4 9.7 28.3 32.3 36.6 19.3 36.6 19.3 21.2 26.6 21.1	(3.0) (2.8) (3.7) (2.5) (2.1) (2.0) (0.9) (3.2) (1.1) (1.6) (1.8) (3.0) (2.2) (1.5) (3.2) (2.4) (0.5) (1.2) (1.7) (0.9) (2.2) (0.7) (2.9) (1.8) (1.2) (2.4) (3.0) (1.2) (3.7) (2.1) (1.9) (4.4)
Brazil Br-S-J-G (China) B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	-94 -6 -6 -47 -53 -6 -17 -36 -51 -59 -56 -16 -30 -49 -61 -72 -79 -70 -74 -74 -74 -77 -77 -76 -86 -86	(8.5) (15.1) c (12.7) (7.2) (8.5) (16.6) (3.1) (8.1) (5.6) (5.9) (6.5) (6.0) (13.3) (6.9) (31.8) c c (5.3) (1.5) c c (9.5) (5.3) (9.5) (5.8) (19.9)	0.0 0.1 7.4 8.2 0.1 0.1 2.1 8.6 0.9 2.6 0.3 1.3 2.0 1.1 11.2 1.4 1.0 11.4 0.5 0.1 12.6 13.9 0.1 0.1 0.2 5.0 0.1 0.1 0.2 5.0 0.1 0.1 0.2 5.0 1.6 0.9 0.0	(0.2) (0.1) (3.9) (2.1) (0.3) (0.2) (0.4) (2.6) (0.2) (0.6) (0.2) (1.0) (0.8) (0.6) (2.4) (1.5) (0.3) (0.9) (0.9) (0.1) (2.1) (0.5) (0.2) (0.2) (1.0) (1.1) (0.3) (0.2) (1.1) (0.3) (0.2) (1.1) (1.5)	9 c 17 -4 -4 -4 -2 114 13 -14 -12 116 16 -3 17 -17 -10 c 13 -58 c c 600 411 -14 44 -53 21	(14.8) c (10.6) (6.2) (5.3) (11.8) (3.7) (9.2) (6.2) (7.6) (6.0) (4.6) (6.8) (13.1) (7.1) (25.0) c (5.7) c c (4.7) (1.5) c c (8.5) (3.5) (3.5) (5.9) (5.4) (17.7) (4.8) (8.0)	34.7 39.2 33.6 20.3 22.4 26.0 17.4 26.4 14.2 15.0 13.3 24.7 12.6 14.3 19.5 21.4 2.9 22.5 14.2 17.1 29.9 21.9 23.4 9.7 28.3 32.3 31.3 36.6 19.3 21.2 26.6	(3.0) (2.8) (3.7) (2.5) (2.1) (2.0) (0.9) (3.2) (1.1) (1.6) (1.8) (3.0) (2.2) (1.5) (3.2) (2.4) (0.5) (1.2) (1.7) (0.9) (2.2) (0.7) (2.9) (1.8) (1.2) (2.4) (3.0) (1.2) (3.7) (2.1) (1.9)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

* Coverage is too small to ensure comparability (see Annex A4).

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Table II.4.15 Criteria for choosing a school

	ults based on pare	1113 30	11 10	307 13		Perce	ntage (ng a scl		r their	child,				
		The so is a si dista from l	hort nce	The s has a reput	good	The so	ers cular rses	The s adhe a part relig	chool res to	The se particapproapeda	chool s a cular ach to	Other mem attend sch	family bers ed the	Expe are (e.g. to books, and b	nses low uition,	The so has fin aid ava such school school or g	chool ancial ilable, as a I loan, arship	The so has an and pl sch clim	active easant ool	Th acad achieve of stud in the s	emic ements dents school	Ther safe s	
		%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Q.	Australia	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
OECD	Austria	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
0	Belgium (Fl. Comm.)	52.8	(1.4)	93.5	(0.4)	93.0	(0.4)	24.7	(1.0)	14.7	(0.7)	19.5	(0.8)	18.9	(0.6)	21.3	(0.7)	90.0	(0.6)	67.0	(1.1)	91.2	(0.5)
	Canada Chile	53.7	m (1.4)	91.7	(0.5)	84.0	m (0.7)	36.6	(1.5)	m 46.6	(0.9)	39.5	(1.0)	60.3	(0.8)	63.0	m (0.8)	92.3	(0.5)	m 86.0	(0.7)	92.4	(0.5)
	Czech Republic	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Denmark	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Estonia Finland	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	France	61.8	(0.9)	90.6	(0.4)	67.8	(0.8)	9.5	(0.7)	m 12.8	(0.5)	24.5	(0.6)	41.4	(0.8)	m m	m m	86.5	(0.5)	m 86.4	(0.5)	94.0	(0.3)
	Germany	61.9	(1.1)	87.2	(0.7)	73.3	(1.0)	14.1	(0.9)	18.1	(0.8)	17.8	(0.7)	22.8	(0.8)	17.4	(0.7)	91.7	(0.6)	69.8	(0.8)	90.6	(0.5)
	Greece	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Hungary	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Iceland Ireland	m 46.2	m (1.3)	97.1	(0.3)	84.9	(0.6)	m 29.4	(0.8)	83.0	(0.6)	40.1	m (1.0)	41.9	(1.1)	28.9	m (0.8)	92.7	m (0.4)	m 92.7	(0.3)	98.3	(0.2)
	Israel	40.2 m	(1.3) m	97.1 m	(0.3)	m	(0.0) m	29.4 m	(0.0) m	m	(0.0) m	40.1 m	(1.0) m	41.9 m	(1.1) m	20.9 m	(0.0) m	92.7 m	(0.4) m	92.7 m	(0.3) m	90.5 m	(0.2) m
	Italy	27.2	(0.9)	80.8	(0.7)	73.3	(0.7)	21.2	(0.8)	29.8	(0.7)	20.7	(0.7)	29.6	(0.8)	m	m	81.1	(0.6)	61.0	(0.9)	89.6	(0.5)
	Japan	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Korea	69.3	(0.9)	87.3	(0.6)	75.5	(0.7)	20.4	(0.7)	65.9	(0.8)	13.8	(0.6)	44.7	(0.8)	46.9	(0.9)	93.3	(0.4)	87.6	(0.6)	95.8	(0.4)
	Latvia Luxembourg	55.9	(0.9)	90.6	(0.5)	78.3	m (0.8)	m 14.4	(0.5)	m 27.7	(0.7)	m 27.3	(0.7)	m 31.7	m (0.8)	m 31.8	m (0.7)	89.4	(0.5)	m 82.8	(0.6)	93.7	(0.4)
	Mexico	67.7	(1.0)	89.6	(0.5)	83.4	(0.6)	16.8	(0.6)	65.2	(0.7)	41.7	(1.0)	64.9	(0.8)	69.4	(0.8)	90.0	(0.5)	85.4	(0.5)	91.7	(0.4)
	Netherlands	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	New Zealand	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Norway Poland	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m
	Portugal	72.9	(1.1)	93.8	(0.4)	91.7	(0.4)	24.1	(0.8)	37.7	(0.8)	39.0	(1.0)	63.6	(0.8)	59.5	(1.0)	94.0	(0.3)	88.8	(0.5)	96.7	(0.3)
	Scotland (UK)	45.5	(1.3)	95.0	(0.6)	76.9	(1.0)	15.9	(2.0)	19.7	(1.4)	39.1	(1.4)	29.8	(1.1)	17.8	(1.0)	87.0	(1.0)	90.2	(0.7)	98.0	(0.4)
	Slovak Republic	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Slovenia	m	(1.2)	m	m (O.F.)	m	m (O, C)	20.0	(1.2)	m	(1.0)	42.2	m (O, O)	m	(1.0)	m	(1.0)	m	(O 2)	m	m (O.F.)	m	(O, 2)
	Spain Sweden	69.1 m	(1.2) m	92.2 m	(0.5) m	84.4 m	(0.6) m	28.0 m	(1.2) m	69.0 m	(1.0) m	43.2 m	(0.9) m	57.2 m	(1.0) m	57.9 m	(1.0) m	94.8 m	(0.3) m	88.7 m	(0.5) m	95.9 m	(0.3) m
	Switzerland	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Turkey	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	United States	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	OECD average	57.0	(0.3)	90.8	(0.2)	80.5	(0.2)	21.3	(0.3)	40.8	(0.2)	30.5	(0.3)	42.2	(0.2)	41.4	(0.3)	90.2	(0.2)	82.2	(0.2)	94.0	(0.1)
SLS	Albania	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
Partners	Algeria	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
Par	Brazil B-S-J-G (China)	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m
	Bulgaria	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	CABA (Argentina)	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Colombia	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Costa Rica	m	(O, O)	m	m (O, C)	m oc 7	m (O.F)	m	(1.1)	m	m	10.0	m (O, C)	m	m (O, O)	m	(O, O)	m	m (O.F)	m	m (O, C)	m	(O 4)
	Croatia Cyprus*	49.9 m	(0.8) m	78.7 m	(0.6) m	86.7 m	(0.5) m	36.3 m	(1.1) m	m m	m m	10.9 m	(0.6) m	38.1 m	(0.9) m	36.5 m	(0.8) m	83.9 m	(0.5) m	76.9 m	(0.6) m	92.1 m	(0.4) m
	Dominican Republic	77.8	(0.8)	94.3	(0.5)	84.1	(0.8)	59.8	(1.5)	57.6	(1.4)	68.7	(1.1)	69.4	(1.2)	60.8	(1.1)	92.7	(0.5)	91.5	(0.5)	94.3	(0.4)
	FYROM	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Georgia	57.9	(1.0)	93.6	(0.4)	67.4	(1.1)	65.7	(1.0)	84.5	(0.7)	47.1	(1.1)	65.5	(0.9)	51.3	(1.1)	94.0	(0.4)	91.1	(0.5)	96.7	(0.3)
	Hong Kong (China) Indonesia	50.1	(1.0) m	94.7 m	(0.3) m	71.1 m	(0.8) m	37.6 m	(1.1) m	61.0 m	(0.8) m	17.4 m	(0.7) m	31.9 m	(0.9) m	33.1 m	(1.0) m	89.8 m	(0.6) m	81.8 m	(0.6) m	96.2 m	(0.3)
	Jordan	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Kosovo	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Lebanon	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Lithuania Macao (China)	49.0	(0.7)	77.3	(0.6)	69.5	(0.6)	22.9	(0.6)	63.4	(0.8)	30.0	(0.7)	31.2	(0.7)	40.2	(0.7)	86.0	(0.5)	m 72.2	(0.7)	93.5	(0.4)
	Malta	35.5	(0.8)	97.6	(0.3)	91.2	(0.6)	64.7	(0.8)	m	(0.0)	21.2	(0.7)	50.5	(1.0)	m	(0.7)	93.5	(0.4)	94.1	(0.4)	97.0	(0.3)
	Moldova	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Montenegro	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Peru Qatar	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Romania	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m
	Russia	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Singapore	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Chinese Taipei	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Thailand Trinidad and Tobago	m m	m m	m m	m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m	m m	m m	m m	m m
	Tunisia	m	m	m	m m	m	m	m	m	m	m	m	m	m	m	m	m	m	m m	m	m	m	m
	United Arab Emirates	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Uruguay	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Viet Nam	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
_	Argentina**	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Kazakhstan**	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink *** http://dx.doi.org/10.1787/888933436498



[Part 1/2]

Table II.4.19 Student assessment

No. Property series Pro	res	ults based on scho	or prii	ncipais	repo	rts	Percer	ntage of	studen	ts in scl	ools th	at use tl	ne follo	wing m	ethods	for asse	ssing st	udents:				
Part						Manda								- 8					dised tes	its		
Marchaila			N	ever		times	3-5	times		nthly			Ne	ever	1-2	times	3-5	times				
Selegion 1962 2019 201			_			S.E.											_		_			
Selection	9																					
Cenice 1.6 1.1 7.3 1.7 6.6 7.1 6.5 7.2 6.5 7.2 6.5 7.2 6.5 7.2 6.5 7.2 6.5 7.2 6.5 7.2	OE																					
Centes C		Ü																				
Permane																						(0.3)
Fishard																						
Finane																						
Creece C																						С
Humpary 254 297 391 371 382 382 383 384 387 383 384 387 385																						
Fine Part Pa		. '																				
Inferiand 1.5																						
Image 140 130 15		0 ,																				
																						С
Latvia		,																				
Latenia 1.0																						С
Netherlands		Latvia		(0.2)	76.9	(2.6)	14.8	(2.1)		(1.5)		(0.8)	7.1	(1.4)	34.2	(2.6)	25.2	(2.4)	19.7	(2.4)		(2.0)
New Zeal																						(O 1)
New Park																						
Polama																						
Portugal		Norway	28.1	(2.9)	59.3	(3.6)	11.3	(2.1)	1.2	(0.8)	0.0	С	19.1	(3.0)	58.5	(3.5)		(2.6)	6.9	(2.1)	1.0	(0.7)
Stock Republic \$7.3																						
Selection Sele		0																				
Spain Syal																						
Section Sect		Spain	53.8	(3.2)	37.1	(3.2)	3.9	(1.5)	3.4	(1.4)	1.7	(1.0)	46.5	(3.7)	43.6	(3.9)	6.9	(1.5)	1.2	(0.1)	1.8	(1.0)
Turkey 1.5 3.8 46.0 42.1 8.5 2.3 3.3 1.5 1.5 1.8 4.5 2.3 3.3 1.5 1.5 1.5 4.5																						
Value Valu																						
Maried Sates 8.0 2.1 64.8 4.0 24.1 3.2 1.4 1.0 1.6 1.1 4.0 1.4 68.8 3.5 24.9 3.4 1.2 0.9 1.0 0.7		,																				
Albania 4,9 1.6, 49, 1.6, 39, 30,6 33, 13,7 3.4, 17, 0.7, 3.5 1.3, 74,6 3.2, 17,3 0.9, 4.0 (1.1) 0.5 0.6 0.6 BR211 36,0 0.2, 52,8 (3.1) 9.5, 0.1, 0.4, 0.2, 13,0 0.2,			8.0	(2.1)		(4.0)	24.1		1.4		1.6		4.0				24.9		1.2		1.0	(0.7)
		OECD average	23.8	(0.5)	62.9	(0.6)	9.9	(0.4)	2.1	(0.2)	1.3	(0.2)	32.0	(0.5)	47.8	(0.6)	14.1	(0.4)	3.9	(0.2)	2.2	(0.2)
Bulgaria 346 (36) 43.5 (4.2) 5.0 (1.7) 0.6 (0.6) 11.8 (2.7) 18.6 (3.2) 24.6 (3.2) 42.8 (3.9) 2.2 (1.1) Bulgaria 34.6 (3.6) 43.5 (3.6) 45.5 (3.3) 2.9 (3.0) 2.0 (2.1) CABA (Argentina) 16.6 (4.2) 83.4 (4.2) 0.0 c	2	Albania	4.9	(1.6)	49.1	(3.9)	30.6	(3.3)	13.7	(3.4)	1.7	(0.7)	3.5	(1.3)	74.6	(3.2)	17.3	(2.9)	4.0	(1.1)	0.5	(0.6)
Bulgaria 346 (36) 43.5 (4.2) 5.0 (1.7) 0.6 (0.6) 11.8 (2.7) 18.6 (3.2) 24.6 (3.2) 42.8 (3.9) 2.2 (1.1) Bulgaria 34.6 (3.6) 43.5 (3.6) 45.5 (3.3) 2.9 (3.0) 2.0 (2.1) CABA (Argentina) 16.6 (4.2) 83.4 (4.2) 0.0 c	tue	Algeria	1.7	(1.0)		(2.6)	81.0										32.8			(3.6)	9.4	
Bulgaria	Par																					
CABA (Argentina) 16.6 (4.2) 83.4 (4.2) 0.0 c 0.0 0.0 c 0.0 c 0.0 c 0.0 c 0.0 c 0.0 c 0.0 0.0 c 0.0 0.0 c 0.0 0.0 0.0 c 0.0 0.0 0.0																						
Cota Rica 75.2 (3.3) 19.5 (2.8) 4.6 (1.9) 0.6 (0.4) 0.0 c 83.1 (2.9) 12.8 (2.5) 2.6 (1.4) 0.6 (0.0) 0.9 (0.7) Croatia 54.7 (4.0) 30.6 (3.6) 9.5 (1.7) 3.0 (1.1) 2.2 (1.2) 45.7 (3.9) 40.9 (3.7) 9.3 (2.4) 1.7 (1.1) 2.4 (1.3) Cyprus* 27.2 (0.1) 44.3 (0.1) 16.1 (0.1) 8.6 (0.1) 3.8 (0.1) 51.9 (0.2) 25.9 (0.2) 11.9 (0.1) 7.5 (0.1) 2.7 (0.0) Dominican Republic 69.6 (3.5) 21.3 (2.6) 6.6 (2.1) 1.8 (1.3) 0.7 (0.7) 77.1 (3.5) 13.6 (3.2) 3.4 (1.5) 4.4 (1.4) 1.5 (1.0) FYROM EYROM 25.9 (2.8) 35.2 (3.3) 15.4 (2.4) 12.7 (2.2) 10.8 (2.0) 48.4 (3.8) 35.4 (3.7) 11.1 (2.1) 3.2 (1.1) 2.0 (0.9) (0.9) (0.0) 4.0 (0.0)		Ų																				
Croatia			25.2	(3.0)	47.8	(3.7)	16.9		4.7	(1.4)	5.4	(1.8)	17.1	(2.3)	43.5	(3.8)	22.9		6.4	(2.0)	10.0	(2.1)
Cyprus* Cypr																						
Dominican Republic 69.6 3.5 21.3 26.6 66 C.1 1.8 (1.3) 0.7 0.7 7.7 (3.5) 31.6 (3.2) 3.4 (1.5) 4.4 (1.4) 1.5 (1.0) FYROM 2.4 0.11 86.8 0.1 6.6 0.11 3.2 0.00 0.9 0.00 24.0 0.11 18.2 0.11 31.8 0.2 15.5 0.2 8.6 0.11 0.00																						
FROM																						(1.0)
Hong Kong (China) 43.0 (4.5) 38.7 (4.4) 16.5 (3.0) 0.8 (0.8) (1.1) (0.8) (2.9) (4.0) (5.5) (4.7) (9.5) (2.2) (3.0) (1.5) (1.2) Indonesia (6.6) (1.7) (5.52) (3.3) (2.6) (3.0) (4.2) (1.3) (3.4) (1.4) (7.9) (2.8) (3.5) (2.5) (2.5) (3.6) (6.7) (1.6) (3.2) (3.6)		FYROM .																				
Indonesia 6.6 (1.7) 65.2 (3.3) 20.6 (3.0) 4.2 (1.3) 3.4 (1.4) 79.9 (2.8) 13.5 (2.5) 5.2 (1.8) 0.5 (0.5) 0.9 (0.7)																						
Jordan 10.7 (2.2) 78.2 (2.5) 5.4 (1.7) 2.1 (1.0) 3.5 (1.6) 54.4 (3.3) 31.5 (3.3) 6.7 (1.7) 4.2 (1.6) 3.2 (1.4)																						
Kosovo 16.9 0.6 47.9 1.3 29.5 1.3 4.9 0.6 0.7 0.4 19.4 0.9 55.8 1.4 21.6 1.3 2.5 0.6 0.7 0.4 1.8 1																						
Lithuania S5.8 C.9 41.2 C.9 2.4 (0.7) 0.6 (0.0) 0.0 c 40.7 (2.6) 45.4 (2.5) 9.7 (1.7) 3.0 (0.8) 1.2 (0.6)								(1.3)								(1.4)		(1.3)		(0.6)		
Macao (China) 20.4 (0.0) 56.8 (0.1) 22.8 (0.1) 4.9 (0.0) c 56.7 (0.1) 40.0 (0.1) 3.3 (0.0) c 0.0 c Moldova 1.4 (0.9) 67.7 (3.2) 26.4 (3.1) 2.9 (1.2) (0.8) 10.9 (2.4) 35.3 (3.1) 2.9 (1.6) (0.0) Montenegro 66.8 (0.2) 25.2 (0.4) 7.9 (0.4) (0.1) (0.0) c 36.1 (0.4) 46.3 (0.4) 10.1 (0.1) 4.7 (0.2) 2.8 (0.1) Peru 35.5 (3.1) 48.9 (3.4) 12.9 (2.4) 2.3 (0.9) 0.4 (0.1) 44.2 (3.3) 42.5 (3.5) 8.1 (1.6) 3.8 (0.9) 1.4 (1.0) Qatar 6.8 (0.1) 62.1 (0.1) 25.6 (0.1) 1.7 (0.0) 2.0 1.0																						
Malta 1.1 (0.0) 85.0 (0.1) 9.0 (0.1) 4.9 (0.0) 0.0 c 6.7 (0.1) 81.2 (0.1) 5.3 (0.0) 1.6 (0.0) Moldova 1.4 (0.9) 67.7 (3.2) 26.4 (3.1) 2.9 (1.2) 1.5 (0.8) 10.9 (2.4) 35.3 (3.1) 27.0 (3.5) 19.0 (2.6) 7.9 (1.8) Montenegro 66.8 (0.2) 25.2 (0.4) 7.9 (0.4) (0.1) (0.4) 46.3 (0.4) 40.1 (0.1) (0.1) 4.7 (0.2) 2.8 (0.1) Peru 35.5 (3.1) 48.9 (3.4) 12.9 (2.4) 2.3 (0.0) 3.2 (0.0) 4.42 (3.3) 42.5 (3.5) 8.1 (1.0) 1.4 (0.0) 7.0 (1.0) 2.0 8.0 (1.1) (0.0) 7.0 (0.0) 3.2 (0.0) 1.5 8.0 </td <th></th> <th></th> <td></td>																						
Moldova 1.4 (0.9) 67.7 (3.2) 26.4 (3.1) 2.9 (1.2) 1.5 (0.8) 10.9 (2.4) 35.3 (3.1) 27.0 (3.5) 19.0 (2.6) 7.9 (1.8) Montenegro 66.8 (0.2) 25.2 (0.4) 7.9 (0.4) 0.1 (0.1) 0.0 c 36.1 (0.4) 46.3 (0.4) 40.1 (0.1) 4.7 (0.2) 2.8 (0.1) Qatar 6.8 (0.1) 62.1 (0.1) 25.6 (0.1) 2.3 (0.0) 3.2 (0.0) 31.9 (0.1) 50.8 (0.1) 1.0 (0.1) 4.4 (0.0) 1.0 (0.0) 31.9 (0.1) 50.8 (0.1) 1.0 (0.1) 8.0 (0.1) 2.0 (0.0) 3.2 (0.0) 32.7 (3.3) 45.0 (3.8) 19.0 (3.2) 5.0 (1.7) (2.3) (7.1) (0.0) 3.6 (0.7) 30.1 <t< td=""><th></th><th>Malta</th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>(0.0)</td></t<>		Malta																				(0.0)
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Qatar 6.8 0.1 62.1 0.1 25.6 0.1 2.3 0.0 3.2 0.0 31.9 0.1 50.8 0.1 1.0 0.1 4.4 0.0 1.9 0.0 Romania 20.4 (2.9) 66.8 3.5 9.5 (2.1) 1.7 0.9 1.6 (1.0) 28.7 (3.3) 45.0 (3.8) 19.0 (3.2) 5.0 (1.7) 2.3 (1.1) Singapore 2.1 (0.0) 74.7 (1.4) 19.1 (1.2) 0.6 (0.0) 3.6 (0.7) 30.1 (0.2) 53.1 (1.2) 11.4 (0.1) 3.8 (0.8) 1.7 (0.7) Chinese Taipei 14.2 (2.5) 61.4 (3.2) 15.9 (2.3) 7.8 (2.0) 0.7 (0.5) 15.0 (2.3) 56.4 (3.8) 25.1 (1.2) 11.4 (0.1) 3.8 (0.8) 1.7 (0.7) Thiidad and Tobago 52.																						(0.1)
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Russia 0.8 0.6 28.2 (4.1) 38.8 (4.3) 22.2 (2.9) 10.0 (2.0) 10.3 (2.1) 37.3 (3.9) 30.2 3.2 14.3 (2.7) 7.8 (1.7) Singapore 2.1 (0.0) 74.7 (1.4) 19.1 (1.2) 0.6 (0.0) 3.6 (0.7) 30.1 (0.2) 53.1 (1.2) 11.4 (0.1) 3.8 (0.8) 1.7 (0.7) Chinese Taipei 14.2 (2.5) 61.4 (3.2) 15.9 (2.3) 7.8 (2.0) 0.7 (0.5) 15.0 (2.3) 56.4 (3.8) 25.1 (3.2) 16.6 (0.9) 1.9 (0.9) 51.9 (3.9) 42.6 (3.9) 3.6 (1.5) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 51.9 (3.9) 42.6 (3.9) 3.6 (1.5) 0.0 0.0 0.0 0.0 0.0 0.0<																						
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Thailand 11.3 (1.6) 76.9 (2.3) 7.3 (1.8) 2.9 (1.3) 1.5 (0.9) 51.9 (3.9) 42.6 (3.9) 3.6 (1.5) 2.0 (1.3) 0.0 (0.0) Trinidad and Tobago 52.7 (0.3) 29.6 (0.3) 9.0 (0.1) 7.6 (0.2) 1.1 (0.0) 28.7 (0.2) 7.7 (0.1) 35.0 (0.2) 22.1 (0.3) 6.5 (0.1) Tunisia 13.6 (3.2) 18.2 (3.0) 56.5 (4.8) 4.9 (1.9) 6.9 (2.6) 6.9 (2.6) 72.3 (4.0) 9.5 (2.6) 4.9 (1.8) 5.7 (2.1) 7.6 (2.1) United Arab Emirates 20.6 (2.4) 51.8 (2.8) 18.9 (2.6) 4.6 (1.2) 4.1 (1.1) 37.2 (2.7) 51.0 (2.8) 9.1 (1.5) 1.9 (0.3) 0.9 (0.5) Uruguay 63.1 (2.9) 26.9 (2.6) 3.9 (1.1) 5.4 (1.3) 0.7 (0.5) 84.3 (2.1) 11.6 (1.9) 2.0 (0.6) 1.0 (0.4) 1.1 (0.7) Viet Nam 41.7 (4.1) 35.0 (4.1) 11.6 (2.7) 9.2 (2.6) 2.7 (1.2) 76.7 (3.5) 19.4 (3.4) 1.7 (0.9) 1.8 (1.1) 0.4 (0.3) Argentina** 38.9 (3.8) 60.3 (3.9) 0.8 (0.6) 0.0 c 0.0 c 40.4 (3.4) 58.7 (3.4) 0.9 (0.6) 0.0 c 0.0 c 0.0 C Kazakhstan** 6.6 (1.7) 35.2 (3.4) 16.6 (2.1) 26.6 (2.9) 15.0 (2.6) 5.1 (1.6) 17.7 (2.8) 19.8 (2.8) 24.6 (3.1) 32.8 (3.3)																						
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Tunisia 13.6 (3.2) 18.2 (3.0) 56.5 (4.8) 4.9 (1.9) 6.9 (2.6) 72.3 (4.0) 9.5 (2.6) 4.9 (1.8) 5.7 (2.1) 7.6 (2.4) United Arab Emirates 20.6 (2.4) 51.8 (2.8) 18.9 (2.6) 4.6 (1.2) 4.1 (1.1) 37.2 (2.7) 51.0 (2.8) 9.1 (1.5) 1.9 (0.3) 0.9 (0.5) Urguay 63.1 (2.9) 26.9 (2.6) 3.9 (1.1) 5.4 (1.3) 0.7 (0.5) 84.3 (2.1) 11.6 (1.9) 2.0 (0.6) 1.0 (0.4) 1.1 (0.7) Viet Nam 41.7 (4.1) 35.0 (4.1) 11.6 (2.7) 9.2 (2.6) 2.7 (1.2) 76.7 (3.5) 19.4 (3.4) 17.7 (0.9) 18.8 (1.1) 0.4 (0.3) Argentina** 38.9 (3.8) 60.3 (3.9) 0.8 (0.6) 0.0 c 0.0 c 40.4 (3.4) 58.7 (3.4) 0.9 (0.6) 0.9 (0.6) 1.0 c 0.0 c 8.3 (3.4) 84.3 (3.4) 17.7 (3.4) 17.7 (3.4) 18.4 (3.4																						(0.0)
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Viet Nam 41.7 (4.1) 35.0 (4.1) 11.6 (2.7) 9.2 (2.6) 2.7 (1.2) 76.7 (3.5) 19.4 (3.4) 1.7 (0.9) 1.8 (1.1) 0.4 (0.3) Argentina** 38.9 (3.8) 60.3 (3.9) 0.8 (0.6) 0.0 c 40.4 (3.4) 58.7 (3.4) 0.9 (0.6) 0.0 c Kazakhstan** 6.6 (1.7) 35.2 (3.4) 16.6 (2.1) 26.6 (2.9) 15.0 (2.6) 5.1 (1.6) 17.7 (2.8) 19.8 (2.8) 24.6 (3.1) 32.8 (3.3)																						(0.5)
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Kazakhstan** 6.6 (1.7) 35.2 (3.4) 16.6 (2.1) 26.6 (2.9) 15.0 (2.6) 5.1 (1.6) 17.7 (2.8) 19.8 (2.8) 24.6 (3.1) 32.8 (3.3)	_																					
																						(3.3)
																						(3.3) C

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** http://dx.doi.org/10.1787/888933436498



Table II.4.19 Student assessment

					Percer	tage of	studen	ts in sch	ools th	at use th	ne follo	wing m	ethods	for asse	ssing st	udents:				
				Tea	cher-dev	eloped	tests							Teache	ers' judg	ementa	ratings			
	Ne	ever	ay	ear	a y	ear		nthly	once a	e than month	Ne %	ever	ay	times ear	a y	times ear	_	nthly	More once a	mor
Australia	m	S.E.	% m	S.E.	% m	S.E.	% m	S.E.	% m	S.E.	m	S.E.	% m	S.E.	% m	S.E.	% m	S.E.	% m	S.I
Austria	0.0	C	7.9	(1.8)	38.6	(3.6)	22.0	(3.1)	31.4	(3.1)	0.0	C	0.4	(0.3)	14.6	(2.7)	13.6	(2.8)	71.5	(3.
Belgium	1.5	(0.9)	4.7	(1.5)	8.5	(2.0)	9.3	(1.5)	76.0	(2.7)	4.5	(1.4)	6.0	(1.6)	11.9	(2.1)	10.2	(1.9)	67.4	(3
Canada	0.5	(0.4)	1.1	(0.6)	2.9	(0.9)	21.7	(2.2)	73.8	(2.5)	25.5	(2.3)	5.5	(1.3)	13.1	(1.9)	8.7	(1.5)	47.2	(2.
Chile	1.2	(1.0)	5.3	(1.7)	8.9	(2.4)	36.1	(4.1)	48.6	(3.8)	39.5	(4.0)	15.8	(2.8)	5.7	(1.8)	12.9	(2.6)	26.1	(3.
Czech Republic	1.5	(1.0)	8.1	(1.8)	22.8	(2.6)	27.9	(2.5)	39.7	(3.0)	3.7	(1.1)	10.0	(1.7)	14.5	(2.2)	12.9	(2.1)	58.9	(3.
Denmark	2.4	(1.5)	13.8	(2.4)	48.9	(3.2)	26.2	(3.4)	8.8	(2.1)	0.2	(0.2)	14.4	(2.4)	36.8	(3.4)	12.4	(2.5)	36.2	(3.
Estonia	1.3	(0.7)	0.2	(0.2)	10.9	(1.9)	42.3	(2.4)	45.3	(2.6)	0.4	(0.2)	0.6	(0.6)	3.0	(0.9)	4.1	(0.6)	92.0	(1
Finland	0.0	C	0.7	(0.7)	28.1	(3.0)	48.5	(3.9)	22.7	(3.5)	0.6	(0.7)	2.6	(1.3)	4.5	(1.4)	14.5	(3.2)	77.8	(3.2
France	3.3	(1.2)	19.8	(3.0)	13.7	(2.4)	12.8	(2.2)	50.4	(3.4)	10.0	(2.1)	11.8	(2.1)	34.0	(3.3)	10.8	(2.2)	33.5	(3.4
Germany Greece	1.7 0.4	(1.2)	13.4	(2.5)	28.0 32.3	(3.1)	19.6 28.8	(3.0)	37.2 36.0	(3.4)	0.2 2.7	(0.2)	7.3 26.1	(1.9)	13.0 25.9	(2.6)	14.3	(2.6)	65.1 29.0	(3.
	0.4	(0.4)	20.7	(2.9)	20.2	(2.8)	33.3	(3.6)	25.5	(2.9)	6.7	(1.1)	3.7	(3.4)	6.5	(3.5)	23.7	(3.2)	59.4	(3.
Hungary Iceland	0.0	(U.3)	0.0	(2.9) C	20.2	(0.2)	38.5	(0.2)	40.9	(0.2)	0.0	(1.9) C	0.0	(1.5) C	14.7	(0.2)	16.9	(3.1)	68.3	(0.
Ireland	0.0	(0.0)	23.9	(3.3)	35.3	(4.1)	16.9	(3.2)	23.9	(3.9)	4.5	(1.9)	10.6	(2.6)	33.6	(4.1)	15.1	(2.9)	36.2	(4
Israel	0.6	(0.6)	4.7	(1.6)	30.6	(3.7)	26.4	(3.3)	37.8	(3.8)	0.6	(0.6)	57.2	(3.3)	39.5	(3.5)	0.5	(0.5)	2.2	(1.
Italy	3.5	(1.5)	14.1	(2.9)	17.2	(3.1)	31.1	(3.3)	34.1	(3.4)	9.6	(2.1)	7.7	(2.4)	13.9	(3.3)	13.1	(2.4)	55.6	(4.
Japan	0.0	C	0.0	C	80.0	(2.8)	11.2	(2.3)	8.8	(2.0)	5.6	(1.6)	5.9	(1.6)	60.4	(3.4)	6.5	(1.9)	21.6	(2.
Korea	20.8	(3.0)	8.4	(2.3)	65.4	(3.8)	3.3	(1.4)	2.1	(1.0)	16.1	(2.9)	17.1	(3.2)	39.2	(3.5)	22.3	(3.4)	5.3	(1.
Latvia	0.0	(J.0)	3.1	(1.0)	14.0	(2.1)	38.9	(3.0)	44.0	(3.0)	0.0	(2. <i>3</i>)	1.3	(0.7)	5.1	(1.4)	20.8	(2.4)	72.8	(2
Luxembourg	4.9	(0.0)	8.9	(0.1)	4.5	(0.1)	11.4	(0.1)	70.3	(0.1)	9.9	(0.0)	6.6	(0.1)	12.6	(0.1)	6.0	(0.1)	65.0	(0.
Mexico	4.6	(1.5)	11.8	(2.2)	41.6	(3.5)	28.3	(2.6)	13.7	(2.1)	27.7	(3.2)	22.2	(2.7)	15.7	(2.6)	20.5	(2.5)	13.9	(2.
Netherlands	3.1	(1.9)	0.0	C	10.3	(2.8)	33.6	(4.6)	53.0	(4.6)	11.3	(2.7)	8.3	(2.6)	39.0	(5.3)	21.9	(4.3)	19.4	(3
New Zealand	0.6	(0.6)	2.2	(1.1)	25.2	(3.8)	35.0	(4.0)	37.0	(4.0)	5.4	(2.0)	17.4	(3.5)	24.9	(3.5)	15.1	(3.0)	37.2	(3
Norway	0.0	С	2.1	(1.1)	16.2	(2.7)	33.8	(3.8)	47.8	(3.5)	1.8	(1.0)	11.9	(2.4)	9.6	(2.1)	19.5	(2.9)	57.1	(3
Poland	1.4	(0.9)	8.7	(2.4)	25.6	(3.5)	43.6	(4.2)	20.8	(3.2)	3.7	(1.6)	9.0	(2.4)	14.1	(2.7)	12.2	(2.7)	61.0	(4
Portugal	1.4	(0.6)	2.3	(1.3)	29.3	(3.8)	57.6	(3.9)	9.4	(1.9)	1.3	(0.6)	1.4	(1.0)	1.7	(0.9)	10.2	(2.7)	85.3	(3
Slovak Republic	0.0	(0.0)	3.0	(1.2)	16.5	(2.5)	35.8	(3.1)	44.6	(3.1)	0.0	(0.0)	0.4	(0.4)	5.3	(1.6)	7.6	(1.8)	86.6	(2
Slovenia	3.9	(0.0)	7.8	(0.1)	52.6	(0.6)	13.3	(0.5)	22.4	(0.4)	3.2	(0.0)	26.1	(0.2)	28.0	(0.5)	15.0	(0.6)	27.7	(0
Spain	0.0	С	0.8	(8.0)	7.5	(2.0)	34.3	(3.5)	57.5	(3.9)	6.8	(1.8)	1.5	(8.0)	10.8	(2.3)	8.5	(1.8)	72.5	(3
Sweden	0.0	С	0.5	(0.5)	21.2	(3.1)	47.2	(3.5)	31.1	(3.2)	0.3	(0.3)	1.2	(0.8)	3.9	(1.5)	18.7	(3.0)	75.9	(3
Switzerland	2.8	(1.5)	6.9	(1.7)	13.9	(2.6)	13.2	(2.6)	63.2	(3.6)	5.7	(1.8)	14.0	(2.9)	16.4	(2.9)	14.7	(3.2)	49.3	(3
Turkey	0.0	С	3.5	(1.7)	56.7	(3.5)	29.3	(3.6)	10.5	(2.6)	2.0	(0.9)	27.8	(3.5)	42.7	(4.1)	14.1	(3.0)	13.4	(2
United Kingdom	0.6	(0.6)	1.2	(0.6)	42.4	(3.9)	34.8	(3.8)	21.0	(3.3)	2.3	(1.1)	4.4	(1.4)	42.9	(3.8)	23.3	(3.2)	27.1	(3
United States	0.0	(0.0)	2.0	(1.0)	5.8	(1.8)	18.9	(3.5)	73.2	(3.9)	22.6	(3.6)	9.1	(2.7)	9.6	(2.7)	7.3	(1.9)	51.4	(4.
OECD average	1.8	(0.2)	6.3	(0.3)	26.4	(0.5)	28.4	(0.5)	37.1	(0.5)	6.9	(0.3)	10.7	(0.4)	19.6	(0.5)	13.7	(0.4)	49.1	(0.
Albania	0.0	С	4.4	(1.9)	50.0	(4.0)	32.0	(3.6)	13.6	(3.0)	13.0	(2.8)	11.1	(2.9)	6.8	(2.2)	23.5	(3.3)	45.6	(3.
Algeria	8.9	(2.2)	4.8	(2.4)	23.8	(3.5)	33.5	(4.1)	28.9	(4.0)	5.5	(2.0)	7.6	(2.5)	52.4	(4.1)	22.4	(3.2)	12.0	(2
Brazil	1.9	(0.5)	6.2	(1.5)	21.6	(2.1)	29.0	(2.7)	41.3	(2.5)	3.4	(0.8)	3.8	(0.6)	9.5	(1.4)	16.0	(2.1)	67.3	(2
B-S-J-G (China)	3.9	(1.3)	14.4	(2.8)	19.4	(2.8)	30.3	(4.1)	32.1	(4.3)	0.8	(0.5)	30.1	(3.9)	16.4	(2.7)	23.2	(3.6)	29.5	(4
Bulgaria	0.9	(0.7)	9.0	(2.3)	32.1	(3.8)	41.2	(4.2)	16.9	(2.3)	2.5	(1.2)	13.8	(2.8)	25.1	(3.8)	33.7	(4.2)	24.9	(3
CABA (Argentina)	1.5	(1.1)	4.2	(2.9)	1.5	(1.6)	26.1	(6.6)	66.8	(5.8)	3.9	(2.8)	0.0	С	85.7	(4.4)	5.2	(3.0)	5.2	(1
Colombia	1.1	(0.7)	5.2	(1.7)	30.9	(3.3)	13.5	(2.9)	49.3	(4.0)	7.2	(2.0)	7.7	(2.1)	30.4	(3.8)	14.8	(2.8)	39.9	(3
Costa Rica	3.6	(1.3)	2.9	(1.1)	39.3	(3.7)	43.2	(3.8)	11.0	(2.5)	25.6	(3.3)	7.4	(1.9)	18.8	(3.2)	15.4	(2.4)	32.8	(3
Croatia	0.0	С	8.1	(2.4)	41.0	(4.1)	26.4	(3.5)	24.5	(3.7)	1.9	(1.1)	3.2	(1.4)	24.3	(3.0)	27.3	(3.7)	43.3	(4
Cyprus*	0.1	(0.0)	2.2	(0.0)	37.5	(0.1)	23.0	(0.1)	37.3	(0.1)	0.2	(0.0)	25.0	(0.1)	23.6	(0.1)	9.0	(0.1)	42.2	(0
Dominican Republic	0.0	С	4.3	(2.2)	10.0	(2.3)	70.7	(4.2)	14.9	(3.2)	13.9	(2.7)	11.2	(2.9)	7.9	(2.3)	30.2	(3.3)	36.9	(4
FYROM	1.6	(0.1)	2.9	(0.1)	42.0	(0.2)	37.5	(0.2)	16.0	(0.1)	4.0	(0.1)	17.0	(0.1)	27.5	(0.2)	32.2	(0.2)	19.4	(C
Georgia	0.8	(0.6)	5.4	(1.7)	19.4	(2.5)	29.9	(2.9)	44.5	(3.1)	13.3	(1.8)	42.4	(3.1)	14.7	(2.1)	18.2	(2.5)	11.4	(1
Hong Kong (China)	1.1	(0.8)	1.9	(1.2)	42.0	(4.7)	24.4	(3.8)	30.6	(4.2)	6.7	(2.5)	19.4	(3.7)	30.4	(4.2)	13.0	(2.9)	30.4	(4
Indonesia	0.8	(0.6)	4.9	(1.4)	26.6	(3.4)	29.7	(2.9)	38.1	(3.8)	3.0	(1.3)	17.2	(2.7)	18.8	(2.6)	30.7	(3.4)	30.3	(3
Jordan	0.6	(0.6)	2.7	(1.2)	9.4	(1.7)	52.1	(3.6)	35.1	(3.6)	0.2	(0.1)	13.7	(2.6)	11.0	(2.1)	30.7	(3.1)	44.4	(3
V	0.0	(1.4)	9.0	(0.5)	62.5	(1.4)	25.4	(1.3)	3.1	(0.7)	7.9	(0.7)	16.9	(0.8)	20.4	(1.2)	28.6	(1.3)	26.3	(1
		(1.4)	3.8	(1.0)	11.6	(2.7)	33.3	(3.5)	46.1	(3.6)	8.2	(2.3)	10.6	(2.3)	18.1	(3.1)	24.6	(3.5)	38.6	(3
Lebanon	5.2		13.0	(2.1)	24.5	(2.6)	36.9	(3.0)	24.8	(2.7)	2.0	(0.6)	8.5	(1.5)	9.1	(1.6)	19.6	(2.2)	60.8	(2
Lebanon Lithuania	0.8	(0.5)	2.2	(O O)			42.7	(0.1)	26.2 13.4	(0.1)	30.6 6.0	(0.1)	19.7 25.7	(0.0)	27.3	(0.1)	8.8	(0.0)	13.5 35.5	((
Lebanon Lithuania Macao (China)	0.8 5.3	(0.0)	3.2	(0.0)	22.6		35.2			(0.1)	0.0	(0.1)		(0.1)	17.5	(0.1)	19.3			((
Lebanon Lithuania Macao (China) Malta	0.8 5.3 1.7	(0.0) (0.0)	17.1	(0.0)	32.7	(0.1)	35.2			(3.4)	6.7	(1.8)			1 17.3					73
Lebanon Lithuania Macao (China) Malta Moldova	0.8 5.3 1.7 0.7	(0.0) (0.0) (0.6)	17.1 4.0	(0.0) (1.4)	32.7 20.6	(0.1) (2.7)	38.6	(3.3)	36.0	(3.4)	6.7	(1.8)	17.0			(2.5)		(2.9)	39.5	
Lebanon Lithuania Macao (China) Malta Moldova Montenegro	0.8 5.3 1.7 0.7 0.0	(0.0) (0.0) (0.6)	17.1 4.0 5.4	(0.0) (1.4) (0.1)	32.7 20.6 49.0	(0.1) (2.7) (0.2)	38.6 18.2	(3.3) (0.2)	36.0 27.3	(0.3)	0.0	С	0.8	(0.0)	25.1	(0.4)	36.4	(0.2)	37.8	(0
Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru	0.8 5.3 1.7 0.7 0.0 1.1	(0.0) (0.0) (0.6) C (0.6)	17.1 4.0 5.4 11.1	(0.0) (1.4) (0.1) (2.1)	32.7 20.6 49.0 11.6	(0.1) (2.7) (0.2) (1.9)	38.6 18.2 26.9	(3.3) (0.2) (2.5)	36.0 27.3 49.3	(0.3) (2.5)	0.0 4.0	c (1.3)	0.8 9.1	(0.0) (2.1)	25.1 15.9	(0.4) (2.4)	36.4 20.3	(0.2) (2.4)	37.8 50.8	(2
Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar	0.8 5.3 1.7 0.7 0.0 1.1 8.3	(0.0) (0.0) (0.6) C (0.6) (0.0)	17.1 4.0 5.4 11.1 2.4	(0.0) (1.4) (0.1) (2.1) (0.0)	32.7 20.6 49.0 11.6 28.9	(0.1) (2.7) (0.2) (1.9) (0.1)	38.6 18.2 26.9 21.8	(3.3) (0.2) (2.5) (0.1)	36.0 27.3 49.3 38.6	(0.3) (2.5) (0.1)	0.0 4.0 9.5	(1.3) (0.1)	0.8 9.1 12.2	(0.0) (2.1) (0.1)	25.1 15.9 16.8	(0.4) (2.4) (0.1)	36.4 20.3 22.2	(0.2) (2.4) (0.1)	37.8 50.8 39.3	(2
Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania	0.8 5.3 1.7 0.7 0.0 1.1 8.3 0.7	(0.0) (0.0) (0.6) c (0.6) (0.0) (0.7)	17.1 4.0 5.4 11.1 2.4 0.0	(0.0) (1.4) (0.1) (2.1) (0.0)	32.7 20.6 49.0 11.6 28.9 13.5	(0.1) (2.7) (0.2) (1.9) (0.1) (2.9)	38.6 18.2 26.9 21.8 38.6	(3.3) (0.2) (2.5) (0.1) (3.8)	36.0 27.3 49.3 38.6 47.2	(0.3) (2.5) (0.1) (3.5)	0.0 4.0 9.5 2.0	(1.3) (0.1) (1.2)	0.8 9.1 12.2 4.7	(0.0) (2.1) (0.1) (1.5)	25.1 15.9 16.8 9.8	(0.4) (2.4) (0.1) (2.4)	36.4 20.3 22.2 34.3	(0.2) (2.4) (0.1) (3.6)	37.8 50.8 39.3 49.1	(0)
Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia	0.8 5.3 1.7 0.7 0.0 1.1 8.3 0.7 1.3	(0.0) (0.0) (0.6) C (0.6) (0.0) (0.7) (0.9)	17.1 4.0 5.4 11.1 2.4 0.0 1.0	(0.0) (1.4) (0.1) (2.1) (0.0) c (0.9)	32.7 20.6 49.0 11.6 28.9 13.5 9.7	(0.1) (2.7) (0.2) (1.9) (0.1) (2.9) (2.1)	38.6 18.2 26.9 21.8 38.6 40.5	(3.3) (0.2) (2.5) (0.1) (3.8) (4.1)	36.0 27.3 49.3 38.6 47.2 47.5	(0.3) (2.5) (0.1) (3.5) (4.0)	0.0 4.0 9.5 2.0 12.3	(1.3) (0.1) (1.2) (2.0)	0.8 9.1 12.2 4.7 20.1	(0.0) (2.1) (0.1) (1.5) (3.1)	25.1 15.9 16.8 9.8 23.7	(0.4) (2.4) (0.1) (2.4) (3.2)	36.4 20.3 22.2 34.3 19.0	(0.2) (2.4) (0.1) (3.6) (2.2)	37.8 50.8 39.3 49.1 24.9	(3 (0 (2 (0 (3 (3 (1
Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore	0.8 5.3 1.7 0.7 0.0 1.1 8.3 0.7 1.3	(0.0) (0.0) (0.6) C (0.6) (0.0) (0.7) (0.9)	17.1 4.0 5.4 11.1 2.4 0.0 1.0 0.0	(0.0) (1.4) (0.1) (2.1) (0.0) C (0.9)	32.7 20.6 49.0 11.6 28.9 13.5 9.7 13.7	(0.1) (2.7) (0.2) (1.9) (0.1) (2.9) (2.1) (0.9)	38.6 18.2 26.9 21.8 38.6 40.5 30.0	(3.3) (0.2) (2.5) (0.1) (3.8) (4.1) (0.3)	36.0 27.3 49.3 38.6 47.2 47.5 56.3	(0.3) (2.5) (0.1) (3.5) (4.0) (0.8)	0.0 4.0 9.5 2.0 12.3 18.2	(1.3) (0.1) (1.2) (2.0) (0.5)	0.8 9.1 12.2 4.7 20.1 25.3	(0.0) (2.1) (0.1) (1.5) (3.1) (0.2)	25.1 15.9 16.8 9.8 23.7 18.5	(0.4) (2.4) (0.1) (2.4) (3.2) (1.2)	36.4 20.3 22.2 34.3 19.0 9.2	(0.2) (2.4) (0.1) (3.6) (2.2) (0.5)	37.8 50.8 39.3 49.1 24.9 28.8	(C) (C) (3) (3) (1)
Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei	0.8 5.3 1.7 0.7 0.0 1.1 8.3 0.7 1.3 0.0 3.3	(0.0) (0.0) (0.6) c (0.6) (0.0) (0.7) (0.9) c (1.1)	17.1 4.0 5.4 11.1 2.4 0.0 1.0 0.0 1.3	(0.0) (1.4) (0.1) (2.1) (0.0) c (0.9) c (0.8)	32.7 20.6 49.0 11.6 28.9 13.5 9.7 13.7 22.6	(0.1) (2.7) (0.2) (1.9) (0.1) (2.9) (2.1) (0.9) (3.2)	38.6 18.2 26.9 21.8 38.6 40.5 30.0 18.5	(3.3) (0.2) (2.5) (0.1) (3.8) (4.1) (0.3) (2.9)	36.0 27.3 49.3 38.6 47.2 47.5 56.3 54.3	(0.3) (2.5) (0.1) (3.5) (4.0) (0.8) (3.6)	0.0 4.0 9.5 2.0 12.3 18.2 7.3	C (1.3) (0.1) (1.2) (2.0) (0.5) (1.7)	0.8 9.1 12.2 4.7 20.1 25.3 6.7	(0.0) (2.1) (0.1) (1.5) (3.1) (0.2) (1.7)	25.1 15.9 16.8 9.8 23.7 18.5 14.0	(0.4) (2.4) (0.1) (2.4) (3.2) (1.2) (2.7)	36.4 20.3 22.2 34.3 19.0 9.2 19.5	(0.2) (2.4) (0.1) (3.6) (2.2) (0.5) (3.1)	37.8 50.8 39.3 49.1 24.9 28.8 52.6	(C) (C) (3) (3) (1) (3)
Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand	0.8 5.3 1.7 0.7 0.0 1.1 8.3 0.7 1.3 0.0 3.3 0.6	(0.0) (0.0) (0.6) C (0.6) (0.0) (0.7) (0.9) C (1.1) (0.4)	17.1 4.0 5.4 11.1 2.4 0.0 1.0 0.0 1.3 15.1	(0.0) (1.4) (0.1) (2.1) (0.0) c (0.9) c (0.8) (2.5)	32.7 20.6 49.0 11.6 28.9 13.5 9.7 13.7 22.6 26.4	(0.1) (2.7) (0.2) (1.9) (0.1) (2.9) (2.1) (0.9) (3.2) (3.2)	38.6 18.2 26.9 21.8 38.6 40.5 30.0 18.5 27.8	(3.3) (0.2) (2.5) (0.1) (3.8) (4.1) (0.3) (2.9) (3.6)	36.0 27.3 49.3 38.6 47.2 47.5 56.3 54.3 30.1	(0.3) (2.5) (0.1) (3.5) (4.0) (0.8) (3.6) (3.2)	0.0 4.0 9.5 2.0 12.3 18.2 7.3 6.0	C (1.3) (0.1) (1.2) (2.0) (0.5) (1.7) (1.7)	0.8 9.1 12.2 4.7 20.1 25.3 6.7 12.6	(0.0) (2.1) (0.1) (1.5) (3.1) (0.2) (1.7) (2.0)	25.1 15.9 16.8 9.8 23.7 18.5 14.0 10.9	(0.4) (2.4) (0.1) (2.4) (3.2) (1.2) (2.7) (2.3)	36.4 20.3 22.2 34.3 19.0 9.2 19.5 24.9	(0.2) (2.4) (0.1) (3.6) (2.2) (0.5) (3.1) (3.6)	37.8 50.8 39.3 49.1 24.9 28.8 52.6 45.5	(C) (2) (C) (3) (3) (1) (3) (4)
Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	0.8 5.3 1.7 0.7 0.0 1.1 8.3 0.7 1.3 0.0 3.3 0.6 0.6	(0.0) (0.0) (0.6) C (0.6) (0.0) (0.7) (0.9) C (1.1) (0.4) (0.0)	17.1 4.0 5.4 11.1 2.4 0.0 1.0 0.0 1.3 15.1 2.9	(0.0) (1.4) (0.1) (2.1) (0.0) C (0.9) C (0.8) (2.5) (0.1)	32.7 20.6 49.0 11.6 28.9 13.5 9.7 13.7 22.6 26.4 20.9	(0.1) (2.7) (0.2) (1.9) (0.1) (2.9) (2.1) (0.9) (3.2) (3.2) (0.2)	38.6 18.2 26.9 21.8 38.6 40.5 30.0 18.5 27.8 47.2	(3.3) (0.2) (2.5) (0.1) (3.8) (4.1) (0.3) (2.9) (3.6) (0.3)	36.0 27.3 49.3 38.6 47.2 47.5 56.3 54.3 30.1 28.4	(0.3) (2.5) (0.1) (3.5) (4.0) (0.8) (3.6) (3.2) (0.3)	0.0 4.0 9.5 2.0 12.3 18.2 7.3 6.0 24.8	C (1.3) (0.1) (1.2) (2.0) (0.5) (1.7) (1.7) (0.3)	0.8 9.1 12.2 4.7 20.1 25.3 6.7 12.6 14.5	(0.0) (2.1) (0.1) (1.5) (3.1) (0.2) (1.7) (2.0) (0.2)	25.1 15.9 16.8 9.8 23.7 18.5 14.0 10.9 29.6	(0.4) (2.4) (0.1) (2.4) (3.2) (1.2) (2.7) (2.3) (0.2)	36.4 20.3 22.2 34.3 19.0 9.2 19.5 24.9 10.4	(0.2) (2.4) (0.1) (3.6) (2.2) (0.5) (3.1) (3.6) (0.2)	37.8 50.8 39.3 49.1 24.9 28.8 52.6 45.5 20.6	(C) (2) (C) (3) (3) (1) (3) (4) (0)
Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	0.8 5.3 1.7 0.7 0.0 1.1 8.3 0.7 1.3 0.0 3.3 0.6 0.6 6.7	(0.0) (0.0) (0.6) C (0.6) (0.0) (0.7) (0.9) C (1.1) (0.4) (0.0) (2.6)	17.1 4.0 5.4 11.1 2.4 0.0 1.0 0.0 1.3 15.1 2.9 7.2	(0.0) (1.4) (0.1) (2.1) (0.0) c (0.9) c (0.8) (2.5) (0.1)	32.7 20.6 49.0 11.6 28.9 13.5 9.7 13.7 22.6 26.4 20.9 42.9	(0.1) (2.7) (0.2) (1.9) (0.1) (2.9) (2.1) (0.9) (3.2) (3.2) (0.2) (4.4)	38.6 18.2 26.9 21.8 38.6 40.5 30.0 18.5 27.8 47.2 16.8	(3.3) (0.2) (2.5) (0.1) (3.8) (4.1) (0.3) (2.9) (3.6) (0.3) (3.3)	36.0 27.3 49.3 38.6 47.2 47.5 56.3 54.3 30.1 28.4 26.4	(0.3) (2.5) (0.1) (3.5) (4.0) (0.8) (3.6) (3.2) (0.3) (3.8)	0.0 4.0 9.5 2.0 12.3 18.2 7.3 6.0 24.8 14.6	(1.3) (0.1) (1.2) (2.0) (0.5) (1.7) (1.7) (0.3) (3.5)	0.8 9.1 12.2 4.7 20.1 25.3 6.7 12.6 14.5 13.9	(0.0) (2.1) (0.1) (1.5) (3.1) (0.2) (1.7) (2.0) (0.2) (2.8)	25.1 15.9 16.8 9.8 23.7 18.5 14.0 10.9 29.6 40.1	(0.4) (2.4) (0.1) (2.4) (3.2) (1.2) (2.7) (2.3) (0.2) (4.1)	36.4 20.3 22.2 34.3 19.0 9.2 19.5 24.9 10.4 8.6	(0.2) (2.4) (0.1) (3.6) (2.2) (0.5) (3.1) (3.6) (0.2) (2.6)	37.8 50.8 39.3 49.1 24.9 28.8 52.6 45.5 20.6 22.8	(C) (2) (3) (3) (1) (3) (4) (0) (3)
Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	0.8 5.3 1.7 0.7 0.0 1.1 8.3 0.7 1.3 0.0 3.3 0.6 0.6 6.7 2.6	(0.0) (0.0) (0.6) c (0.6) (0.0) (0.7) (0.9) c (1.1) (0.4) (0.0) (2.6) (1.5)	17.1 4.0 5.4 11.1 2.4 0.0 1.0 0.0 1.3 15.1 2.9 7.2	(0.0) (1.4) (0.1) (2.1) (0.0) c (0.9) c (0.8) (2.5) (0.1) (2.3)	32.7 20.6 49.0 11.6 28.9 13.5 9.7 13.7 22.6 26.4 20.9 42.9 14.9	(0.1) (2.7) (0.2) (1.9) (0.1) (2.9) (2.1) (0.9) (3.2) (3.2) (0.2) (4.4) (1.5)	38.6 18.2 26.9 21.8 38.6 40.5 30.0 18.5 27.8 47.2 16.8 31.7	(3.3) (0.2) (2.5) (0.1) (3.8) (4.1) (0.3) (2.9) (3.6) (0.3) (3.3) (2.5)	36.0 27.3 49.3 38.6 47.2 47.5 56.3 54.3 30.1 28.4 26.4 48.9	(0.3) (2.5) (0.1) (3.5) (4.0) (0.8) (3.6) (3.2) (0.3) (3.8) (2.6)	0.0 4.0 9.5 2.0 12.3 18.2 7.3 6.0 24.8 14.6 6.1	(1.3) (0.1) (1.2) (2.0) (0.5) (1.7) (1.7) (0.3) (3.5) (1.3)	0.8 9.1 12.2 4.7 20.1 25.3 6.7 12.6 14.5 13.9 8.3	(0.0) (2.1) (0.1) (1.5) (3.1) (0.2) (1.7) (2.0) (0.2) (2.8) (2.1)	25.1 15.9 16.8 9.8 23.7 18.5 14.0 10.9 29.6 40.1 15.7	(0.4) (2.4) (0.1) (2.4) (3.2) (1.2) (2.7) (2.3) (0.2) (4.1) (1.4)	36.4 20.3 22.2 34.3 19.0 9.2 19.5 24.9 10.4 8.6 23.1	(0.2) (2.4) (0.1) (3.6) (2.2) (0.5) (3.1) (3.6) (0.2) (2.6) (2.2)	37.8 50.8 39.3 49.1 24.9 28.8 52.6 45.5 20.6 22.8 46.8	(C) (2) (C) (3) (3) (3) (3) (4) (4) (C) (3) (2)
Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	0.8 5.3 1.7 0.7 0.0 1.1 8.3 0.7 1.3 0.0 3.3 0.6 0.6 6.7 2.6 4.5	(0.0) (0.0) (0.6) c (0.6) (0.0) (0.7) (0.9) c (1.1) (0.4) (0.0) (2.6) (1.5) (1.3)	17.1 4.0 5.4 11.1 2.4 0.0 1.0 0.0 1.3 15.1 2.9 7.2 1.8 4.5	(0.0) (1.4) (0.1) (2.1) (0.0) c (0.9) c (0.8) (2.5) (0.1) (2.3) (0.7) (1.4)	32.7 20.6 49.0 11.6 28.9 13.5 9.7 13.7 22.6 26.4 20.9 42.9 14.9 11.4	(0.1) (2.7) (0.2) (1.9) (0.1) (2.9) (2.1) (0.9) (3.2) (3.2) (0.2) (4.4) (1.5) (1.7)	38.6 18.2 26.9 21.8 38.6 40.5 30.0 18.5 27.8 47.2 16.8 31.7 63.5	(3.3) (0.2) (2.5) (0.1) (3.8) (4.1) (0.3) (2.9) (3.6) (0.3) (3.3) (2.5) (2.8)	36.0 27.3 49.3 38.6 47.2 47.5 56.3 54.3 30.1 28.4 26.4 48.9 16.1	(0.3) (2.5) (0.1) (3.5) (4.0) (0.8) (3.6) (3.2) (0.3) (3.8) (2.6) (2.3)	0.0 4.0 9.5 2.0 12.3 18.2 7.3 6.0 24.8 14.6 6.1 2.3	(1.3) (0.1) (1.2) (2.0) (0.5) (1.7) (1.7) (0.3) (3.5) (1.3) (0.9)	0.8 9.1 12.2 4.7 20.1 25.3 6.7 12.6 14.5 13.9 8.3 9.7	(0.0) (2.1) (0.1) (1.5) (3.1) (0.2) (1.7) (2.0) (0.2) (2.8) (2.1) (1.9)	25.1 15.9 16.8 9.8 23.7 18.5 14.0 10.9 29.6 40.1 15.7 38.9	(0.4) (2.4) (0.1) (2.4) (3.2) (1.2) (2.7) (2.3) (0.2) (4.1) (1.4) (3.1)	36.4 20.3 22.2 34.3 19.0 9.2 19.5 24.9 10.4 8.6 23.1 25.2	(0.2) (2.4) (0.1) (3.6) (2.2) (0.5) (3.1) (3.6) (0.2) (2.6) (2.2) (2.9)	37.8 50.8 39.3 49.1 24.9 28.8 52.6 45.5 20.6 22.8 46.8 24.0	(C) (2) (C) (3) (3) (3) (4) (4) (C) (3) (2) (3) (2) (3)
Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	0.8 5.3 1.7 0.7 0.0 1.1 8.3 0.7 1.3 0.0 3.3 0.6 0.6 6.7 2.6 4.5	(0.0) (0.0) (0.6) C (0.6) (0.0) (0.7) (0.9) C (1.1) (0.4) (0.0) (2.6) (1.5) (1.3)	17.1 4.0 5.4 11.1 2.4 0.0 1.0 0.0 1.3 15.1 2.9 7.2 1.8 4.5 3.6	(0.0) (1.4) (0.1) (2.1) (0.0) c (0.9) c (0.8) (2.5) (0.1) (2.3) (0.7) (1.4) (1.3)	32.7 20.6 49.0 11.6 28.9 13.5 9.7 13.7 22.6 26.4 20.9 42.9 14.9 11.4	(0.1) (2.7) (0.2) (1.9) (0.1) (2.9) (2.1) (0.9) (3.2) (3.2) (0.2) (4.4) (1.5) (1.7) (2.5)	38.6 18.2 26.9 21.8 38.6 40.5 30.0 18.5 27.8 47.2 16.8 31.7 63.5 48.3	(3.3) (0.2) (2.5) (0.1) (3.8) (4.1) (0.3) (2.9) (3.6) (0.3) (3.3) (2.5) (2.8) (4.3)	36.0 27.3 49.3 38.6 47.2 47.5 56.3 54.3 30.1 28.4 26.4 48.9 16.1 34.0	(0.3) (2.5) (0.1) (3.5) (4.0) (0.8) (3.6) (3.2) (0.3) (3.8) (2.6) (2.3) (3.5)	0.0 4.0 9.5 2.0 12.3 18.2 7.3 6.0 24.8 14.6 6.1 2.3 4.2	(1.3) (0.1) (1.2) (2.0) (0.5) (1.7) (1.7) (0.3) (3.5) (1.3) (0.9) (1.5)	0.8 9.1 12.2 4.7 20.1 25.3 6.7 12.6 14.5 13.9 8.3 9.7 36.1	(0.0) (2.1) (0.1) (1.5) (3.1) (0.2) (1.7) (2.0) (0.2) (2.8) (2.1) (1.9) (3.9)	25.1 15.9 16.8 9.8 23.7 18.5 14.0 10.9 29.6 40.1 15.7 38.9 14.2	(0.4) (2.4) (0.1) (2.4) (3.2) (1.2) (2.7) (2.3) (0.2) (4.1) (1.4) (3.1) (2.8)	36.4 20.3 22.2 34.3 19.0 9.2 19.5 24.9 10.4 8.6 23.1 25.2 33.9	(0.2) (2.4) (0.1) (3.6) (2.2) (0.5) (3.1) (3.6) (0.2) (2.6) (2.2) (2.9) (4.0)	37.8 50.8 39.3 49.1 24.9 28.8 52.6 45.5 20.6 22.8 46.8 24.0 11.5	(C) (2) (C) (3) (3) (3) (4) (4) (C) (3) (2) (3) (1) (1)
Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	0.8 5.3 1.7 0.7 0.0 1.1 8.3 0.7 1.3 0.0 3.3 0.6 0.6 6.7 2.6 4.5	(0.0) (0.0) (0.6) c (0.6) (0.0) (0.7) (0.9) c (1.1) (0.4) (0.0) (2.6) (1.5) (1.3)	17.1 4.0 5.4 11.1 2.4 0.0 1.0 0.0 1.3 15.1 2.9 7.2 1.8 4.5	(0.0) (1.4) (0.1) (2.1) (0.0) c (0.9) c (0.8) (2.5) (0.1) (2.3) (0.7) (1.4)	32.7 20.6 49.0 11.6 28.9 13.5 9.7 13.7 22.6 26.4 20.9 42.9 14.9 11.4	(0.1) (2.7) (0.2) (1.9) (0.1) (2.9) (2.1) (0.9) (3.2) (3.2) (0.2) (4.4) (1.5) (1.7)	38.6 18.2 26.9 21.8 38.6 40.5 30.0 18.5 27.8 47.2 16.8 31.7 63.5	(3.3) (0.2) (2.5) (0.1) (3.8) (4.1) (0.3) (2.9) (3.6) (0.3) (3.3) (2.5) (2.8)	36.0 27.3 49.3 38.6 47.2 47.5 56.3 54.3 30.1 28.4 26.4 48.9 16.1	(0.3) (2.5) (0.1) (3.5) (4.0) (0.8) (3.6) (3.2) (0.3) (3.8) (2.6) (2.3)	0.0 4.0 9.5 2.0 12.3 18.2 7.3 6.0 24.8 14.6 6.1 2.3	(1.3) (0.1) (1.2) (2.0) (0.5) (1.7) (1.7) (0.3) (3.5) (1.3) (0.9)	0.8 9.1 12.2 4.7 20.1 25.3 6.7 12.6 14.5 13.9 8.3 9.7	(0.0) (2.1) (0.1) (1.5) (3.1) (0.2) (1.7) (2.0) (0.2) (2.8) (2.1) (1.9)	25.1 15.9 16.8 9.8 23.7 18.5 14.0 10.9 29.6 40.1 15.7 38.9	(0.4) (2.4) (0.1) (2.4) (3.2) (1.2) (2.7) (2.3) (0.2) (4.1) (1.4) (3.1)	36.4 20.3 22.2 34.3 19.0 9.2 19.5 24.9 10.4 8.6 23.1 25.2	(0.2) (2.4) (0.1) (3.6) (2.2) (0.5) (3.1) (3.6) (0.2) (2.6) (2.2) (2.9)	37.8 50.8 39.3 49.1 24.9 28.8 52.6 45.5 20.6 22.8 46.8 24.0	(C) (2) (C) (3) (3) (3) (4) (4) (C) (3) (2) (3) (2) (3)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink *** http://dx.doi.org/10.1787/888933436498



[Part 1/2]

Table II.4.24 Purposes of assessments

Res	ults based on schoo	oi prin	cipais	repo		Percen	tage of	f studei	nts in s	chools	whose	princi	pal rep	orted t	hat sta	ndardi	sed tes	ts are u	sed to:				
		stud lear	ning	abou chi pros	ents t their ld's gress	decis abo studo retent prom	out ents' ion or otion	Gro studer instruc purp	nts for ctional oses		chool strict tional mance	the sc prog from to y	year ear	teacl effecti	ments out hers' veness	or curric that of be imp	cts of action the culum could proved	teac to stu- neo	eds	Com the so with	chool other ools	certif to stu	
_		%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
OECD	Australia	59.6	(2.1)	50.7	(2.0)	19.0	(1.7)	37.4	(1.8)	55.4	(2.2)	57.3	(2.1)	22.1	(1.8)	51.9	(1.9)	49.8	(2.1)	46.3	(2.2)	34.2	(1.9)
- E	Austria Belgium	36.8 35.7	(4.1)	32.0 28.3	(4.0)	11.5 26.8	(2.6)	6.5	(2.1)	20.8	(2.9)	28.2 36.8	(3.9)	15.3 14.6	(3.1)	21.7 38.5	(3.7)	27.4 41.8	(3.8)	17.6 31.5	(2.9)	15.9 25.7	(3.0)
	Canada	57.0	(2.9)	65.5	(2.7)	49.3	(2.5)	29.2	(2.8)	80.8	(1.9)	82.7	(1.7)	15.9	(2.0)	67.7	(2.5)	50.9	(2.9)	73.4	(2.4)	29.2	(2.7)
	Chile	82.3	(3.3)	73.0	(3.5)	37.3	(4.0)	24.3	(3.4)	59.7	(3.8)	87.5	(2.9)	42.0	(4.3)	82.2	(3.1)	61.2	(4.1)	52.1	(4.1)	21.9	(3.4)
	Czech Republic	27.9	(2.7)	30.4	(2.9)	3.4	(1.3)	7.5	(1.4)	68.7	(3.0)	57.2	(3.0)	26.1	(2.4)	33.6	(2.8)	17.4	(2.2)	65.3	(2.8)	28.3	(2.7)
	Denmark	87.1	(2.4)	87.1	(2.4)	13.5	(2.3)	46.9	(4.1)	72.1	(3.4)	75.3	(2.8)	23.5	(3.0)	71.1	(3.0)	80.2	(2.5)	62.1	(3.6)	89.8	(1.8)
	Estonia	61.8	(2.6)	54.6	(2.8)	34.0	(2.9)	15.6	(2.3)	77.8	(2.4)	72.7	(2.7)	49.9	(2.7)	60.5	(3.0)	44.5	(2.9)	62.2	(3.0)	67.7	(2.9)
	Finland France	47.8 58.3	(4.4)	54.5 68.3	(4.1)	22.5 50.7	(3.4)	9.9	(2.6)	74.7 49.5	(3.3)	60.6 59.1	(4.3)	24.6	(3.8)	44.0 50.3	(4.4)	45.8 53.2	(3.9)	51.6 41.7	(4.2)	59.8 52.4	(3.8)
	Germany	23.1	(3.7)	27.3	(3.4)	12.6	(2.5)	11.0	(2.6)	34.0	(3.8)	26.2	(3.0)	4.4	(1.5)	14.1	(2.5)	13.5	(2.7)	24.5	(3.3)	19.8	(3.8)
	Greece	68.7	(4.0)	64.6	(4.2)	60.6	(4.4)	24.2	(3.6)	18.8	(3.0)	46.6	(4.6)	16.4	(3.1)	48.3	(4.1)	61.9	(3.6)	14.2	(2.9)	26.6	(3.5)
	Hungary	55.3	(3.8)	51.1	(3.7)	16.9	(2.7)	21.1	(3.3)	74.9	(3.3)	77.0	(3.0)	40.1	(3.4)	57.6	(3.5)	38.5	(3.9)	71.8	(3.5)	18.0	(3.0)
	Iceland	85.3	(0.2)	91.4	(0.1)	8.6	(0.2)	18.7	(0.2)	94.8	(0.1)	95.3	(0.1)	33.4	(0.3)	85.7	(0.2)	70.7	(0.2)	89.7	(0.2)	26.8	(0.3)
	Ireland	74.3 69.5	(3.6)	75.5 60.1	(3.5)	53.7 51.9	(4.1)	56.8 65.2	(4.4)	84.7 64.3	(2.4)	83.0 74.9	(3.2)	47.7 55.1	(4.3)	62.5	(4.0)	63.6	(3.8)	49.5 59.5	(4.6)	70.7 62.7	(3.9)
	Israel Italy	68.1	(4.3)	40.7	(4.1)	20.0	(3.4)	31.4	(4.1)	81.7	(2.9)	84.8	(2.8)	20.0	(2.9)	83.6	(3.3)	52.7	(4.4)	71.7	(3.7)	27.0	(3.9)
	Japan	m	m	m	m	m	m	m	m	m	m	m	(2.0)	m	m	m	m	m	m	m	m	m	m
	Korea	61.8	(3.8)	79.3	(2.8)	27.9	(3.4)	40.6	(4.1)	69.2	(3.4)	67.6	(3.3)	41.9	(4.1)	58.8	(3.5)	43.3	(3.6)	51.8	(4.3)	20.8	(3.5)
	Latvia	92.5	(1.4)	88.1	(1.8)	59.4	(3.1)	17.4	(2.6)	90.9	(1.5)	97.0	(1.0)	83.2	(2.2)	92.4	(1.3)	63.1	(3.0)	87.6	(1.7)	58.0	(2.8)
	Luxembourg	36.4 79.2	(0.1)	54.7	(0.1)	11.9 48.0	(0.1)	1.8	(0.0)	94.3	(0.1)	75.3	(0.1)	30.0 64.4	(0.1)	58.8	(0.1)	24.9	(0.1)	66.6	(0.1)	8.9	(0.1)
	Mexico Netherlands	68.9	(3.4)	66.6 74.0	(3.4)	32.5	(4.3)	41.9	(4.9)	87.3 63.4	(2.1)	88.7 69.8	(2.5)	25.7	(4.2)	75.3 41.6	(3.6)	60.8 45.3	(4.8)	80.7 61.0	(2.8)	34.0	(4.3)
	New Zealand	78.8	(3.5)	86.2	(2.6)	57.6	(3.6)	73.8	(3.5)	85.6	(2.9)	93.3	(2.4)	53.0	(4.1)	84.6	(2.7)	78.7	(3.1)	82.1	(3.1)	77.9	(3.1)
	Norway	59.5	(4.1)	62.7	(3.8)	5.0	(1.5)	37.5	(3.8)	68.1	(3.4)	76.4	(3.0)	19.5	(2.8)	54.0	(3.7)	68.9	(3.2)	52.8	(3.6)	50.9	(3.2)
	Poland	96.8	(1.4)	97.7	(1.2)	30.3	(3.6)	41.0	(4.3)	91.3	(2.3)	97.7	(1.2)	82.3	(2.8)	91.5	(2.4)	86.9	(2.6)	91.0	(2.4)	31.2	(3.8)
	Portugal	71.0	(3.7)	69.0	(4.3)	56.1	(4.8)	23.7	(3.9)	73.3	(3.9)	77.8	(3.6)	40.3	(4.3)	65.9	(4.0)	49.6	(4.7)	74.3	(3.6)	57.8	(5.1)
	Slovak Republic Slovenia	59.7 26.4	(2.9)	47.6 22.8	(3.2)	23.1	(2.8)	20.4	(3.0)	63.9 34.8	(3.0)	46.6 28.1	(2.9)	32.8 17.6	(2.8)	37.4 19.2	(3.1)	35.0 21.9	(3.2)	56.3 28.8	(3.0)	24.0 39.2	(2.9)
	Spain	37.7	(3.2)	37.9	(3.1)	19.6	(3.0)	17.5	(2.9)	46.7	(3.6)	41.5	(3.6)	28.1	(3.2)	46.4	(3.6)	33.6	(3.5)	38.4	(3.3)	22.1	(3.5)
	Sweden	79.2	(3.5)	71.2	(3.4)	19.3	(2.9)	11.4	(2.4)	88.3	(2.3)	90.1	(2.0)	35.9	(3.4)	74.7	(3.3)	59.2	(3.7)	84.8	(2.5)	19.1	(2.9)
	Switzerland	44.1	(3.9)	43.2	(4.0)	30.5	(3.3)	19.2	(3.0)	46.9	(4.1)	39.0	(3.8)	23.0	(3.4)	29.7	(4.0)	30.7	(3.7)	27.9	(3.7)	30.9	(3.6)
	Turkey	70.7	(4.0)	72.8	(3.9)	32.4	(4.4)	38.3	(4.0)	71.3	(4.5)	70.3	(4.0)	49.0	(5.0)	56.7	(4.8)	60.2	(4.5)	72.8	(3.8)	48.1	(4.8)
	United Kingdom United States	81.5 81.1	(3.3)	92.8	(2.9)	58.7 40.3	(3.5)	78.0 63.0	(3.0)	91.4 95.7	(1.6)	97.2 96.7	(1.1)	87.5 70.8	(1.9)	86.3 86.7	(2.5)	83.8 71.6	(3.1)	89.2 94.1	(2.4)	82.7 47.3	(2.6)
	OECD average	62.5	(0.6)	61.9	(0.5)	31.3	(0.6)	30.4	(0.6)	68.2	(0.5)	69.4	(0.5)	37.0	(0.5)	58.9	(0.6)	51.6	(0.6)	59.5	(0.6)	40.0	(0.6)
LS	Albania	77.2	(3.2)	67.7	(4.9)	53.4	(4.8)	55.0	(5.2)	84.1	(2.1)	87.2	(2.5)	79.9	(3.1)	83.4	(2.8)	67.4	(4.3)	73.3	(3.2)	55.5	(3.9)
Partners	Algeria	93.5	(2.2)	91.6	(2.3)	95.0	(2.0)	55.2	(4.4)	72.0	(3.5)	92.7	(2.3)	73.4	(4.1)	27.6	(3.9)	39.1	(4.4)	70.3	(3.8)	86.5	(2.8)
Pai	Brazil B-S-J-G (China)	80.3 94.7	(2.4)	68.8 83.2	(2.8)	45.5 9.7	(3.1)	35.6 46.3	(2.7)	84.2 55.0	(2.1)	86.5 88.2	(1.9)	59.2 89.6	(2.8)	73.1 93.3	(2.8)	68.9 93.5	(2.9)	66.1 66.4	(3.0)	40.4	(3.2)
	Bulgaria	55.5	(4.0)	39.9	(4.4)	21.1	(3.2)	27.2	(3.6)	68.3	(3.4)	57.1	(3.2)	50.2	(3.7)	36.2	(3.3)	41.1	(3.7)	60.3	(3.8)	37.1	(4.2)
	CABA (Argentina)	36.7	(7.8)	15.2	(4.8)	21.5	(7.5)	9.8	(5.3)	61.8	(8.7)	53.4	(7.2)	12.7	(5.6)	53.3	(7.9)	29.3	(5.7)	46.7	(7.6)	12.7	(6.3)
	Colombia	80.8	(2.9)	64.4	(3.7)	32.6	(3.7)	29.9	(3.5)	80.7	(2.7)	87.8	(2.5)	47.5	(3.8)	85.7	(2.3)	71.1	(3.0)	76.0	(3.0)	68.5	(3.6)
	Costa Rica	20.0	(3.5)	14.1	(3.2)	12.4	(3.1)	8.7	(2.1)	32.7	(4.0)	28.8	(4.0)	18.1	(3.3)	27.2	(3.8)	16.3	(3.2)	24.2	(3.6)	21.7	(3.7)
	Croatia	33.7 63.6	(3.9)	35.5 60.8	(3.9)	24.6 53.1	(3.5)	23.9	(3.5)	44.0 17.6	(4.2)	34.1 46.6	(4.1)	23.9	(3.8)	31.0	(4.1)	29.2 52.8	(3.6)	31.7 15.7	(3.9)	28.1 35.4	(3.6)
	Cyprus* Dominican Republic	50.7	(5.7)	43.9	(5.4)	46.8	(0.2)	37.0	(5.9)	57.2	(5.5)	62.7	(4.7)	59.3	(5.0)	68.5	(4.9)	53.7	(5.5)	50.4	(5.2)	49.0	(5.6)
	FYROM	72.9	(0.2)	64.5	(0.2)	33.0	(0.2)	47.6	(0.2)	64.0	(0.2)	71.4	(0.2)	79.2	(0.1)	68.4	(0.1)	83.4	(0.1)	58.3	(0.2)	64.5	(0.2)
	Georgia	91.4	(2.5)	89.6	(2.7)	56.5	(4.3)	21.9	(3.4)	73.5	(3.8)	88.8	(2.6)	80.3	(3.1)	83.9	(3.0)	85.8	(3.0)	62.0	(3.6)	66.5	(4.0)
	Hong Kong (China)	63.7	(4.2)	41.7	(4.6)	29.6	(3.7)	41.5	(4.1)	57.1	(4.9)	62.4	(4.2)	45.8	(4.1)	62.4	(4.2)	61.9	(4.4)	52.4	(4.7)	44.7	(4.4)
	Indonesia Jordan	91.5	(2.3)	89.1 64.7	(2.2) (5.4)	65.8 54.7	(4.3) (5.6)	71.2 68.1	(3.6) (5.2)	69.2 81.9	(3.4)	94.6 73.5	(1.8)	86.6 69.3	(2.6)	90.1 75.0	(2.3)	88.6 65.3	(2.8) (5.2)	65.6 69.9	(3.1)	75.7	(3.4)
	Kosovo	53.5	(1.6)	56.9	(1.6)	54.7	(1.7)	52.4	(1.5)	50.0	(1.6)	62.9	(1.4)	54.3	(1.5)	60.5	(1.7)	59.0	(1.5)	53.9	(1.8)	55.4	(4.5)
	Lebanon	86.1	(3.7)	91.6	(2.8)	80.3	(4.7)	60.2	(5.1)	67.3	(4.1)	89.4	(3.2)	85.1	(3.4)	82.1	(3.2)	75.6	(4.3)	56.7	(4.9)	71.9	(4.4)
	Lithuania	62.2	(2.8)	63.6	(2.8)	13.9	(2.1)	32.2	(2.9)	68.9	(2.5)	62.2	(2.8)	40.4	(2.9)	60.6	(2.9)	53.1	(3.1)	62.3	(3.0)	18.5	(2.5)
	Macao (China)	65.5	(0.1)	58.0	(0.1)	61.2	(0.1)	38.0	(0.1)	29.5	(0.1)	66.1	(0.1)	57.0	(0.1)	72.7	(0.1)	58.4	(0.1)	24.2	(0.0)	57.2	(0.1)
	Malta Moldova	88.5 99.5	(0.1)	86.8 94.0	(0.1)	44.0 80.4	(0.1)	72.6 28.0	(0.1)	58.9 83.1	(0.1)	90.0	(0.1)	37.1 86.3	(0.1)	75.1 90.9	(0.1)	70.6 84.9	(0.1)	51.6 67.0	(0.1)	80.2 68.1	(0.1)
	Montenegro	29.1	(0.3)	27.5	(0.3)	26.7	(0.3)	30.6	(0.5)	45.5	(0.2)	37.8	(0.3)	39.9	(0.3)	36.9	(0.3)	38.4	(0.4)	40.2	(0.5)	38.2	(0.5)
	Peru	69.4	(3.3)	58.2	(3.2)	36.8	(3.4)	41.3	(3.7)	62.2	(3.5)	71.3	(3.1)	67.2	(3.3)	71.9	(3.2)	60.4	(3.7)	54.7	(3.4)	50.6	(4.3)
	Qatar	80.8	(0.1)	83.7	(0.1)	70.7	(0.1)	67.2	(0.1)	85.1	(0.1)	93.5	(0.0)	72.2	(0.1)	84.8	(0.1)	81.7	(0.1)	78.4	(0.1)	82.8	(0.1)
	Romania	92.2	(1.9)	88.3	(2.5)	51.0	(4.0)	47.9	(4.7)	80.6	(3.5)	84.7	(3.2)	72.3	(4.0)	80.1	(3.3)	79.1	(3.1)	75.4	(3.7)	69.1	(3.9)
	Russia Singapore	92.0 84.2	(0.2)	89.2 85.4	(2.1)	74.3 88.6	(3.5)	49.1 69.8	(3.9)	95.4 94.1	(1.7)	96.5 96.6	(1.3)	89.8 84.5	(1.8)	84.2 92.5	(2.6)	74.0 85.7	(3.6) (0.5)	92.4 89.8	(0.7)	94.7	(2.7)
	Chinese Taipei	82.0	(2.9)	77.7	(3.1)	44.8	(3.5)	36.9	(3.5)	67.6	(3.3)	69.6	(3.6)	48.9	(3.3)	80.6	(2.9)	77.4	(3.1)	57.9	(3.8)	62.2	(3.2)
	Thailand	76.5	(3.8)	69.3	(3.8)	57.4	(3.6)	61.1	(3.8)	94.1	(1.8)	92.5	(2.3)	81.8	(3.3)	86.0	(2.7)	69.8	(3.8)	82.2	(2.9)	68.0	(3.4)
	Trinidad and Tobago	78.7	(0.3)	77.3	(0.3)	42.5	(0.3)	50.5	(0.3)	49.8	(0.3)	74.7	(0.3)	59.0	(0.3)	75.4	(0.3)	66.4	(0.3)	44.5	(0.3)	77.1	(0.2)
	Tunisia United Arab Emirates	57.0	(4.7)	49.5	(4.6)	75.3	(3.3)	55.5	(4.5)	49.5	(3.8)	72.5	(3.8)	63.4	(4.5)	55.0	(3.9)	45.8	(4.4)	52.3	(4.0)	81.0	(3.3)
	United Arab Emirates Uruguay	81.6 35.1	(2.5)	86.0 28.3	(2.0)	73.8	(2.2)	67.7 18.2	(2.6)	86.7 23.5	(2.5)	91.2 34.8	(1.9)	80.9 16.1	(2.0)	87.7 39.1	(2.0)	81.4 36.0	(2.3)	84.8 21.1	(2.4)	83.6 25.3	(2.1)
	Viet Nam	83.4	(3.4)	88.3	(3.0)	73.4	(4.1)	79.2	(3.9)	78.4	(4.0)	85.1	(3.3)	88.0	(3.1)	87.3	(3.3)	86.6	(3.4)	81.4	(4.0)	79.5	(3.4)
	Argentina**	49.2	(4.8)	25.7	(4.2)	20.8	(3.9)	16.1	(3.9)	61.1	(4.1)	57.3	(4.3)	28.1	(4.1)	59.2	(4.1)	40.1	(4.4)	36.2	(4.3)	15.8	(3.5)
	Kazakhstan**	85.6	(2.4)	86.1	(2.2)	76.8	(3.2)	62.2	(3.2)	87.1	(2.5)	95.1	(1.5)	89.4	(2.2)	84.9	(2.4)	85.1	(2.1)	85.9	(2.4)	66.6	(3.4)
	Malaysia**	88.6	(2.4)	89.8	(2.5)	66.1	(3.7)	78.7	(3.1)	82.9	(3.2)	90.5	(2.4)	82.3	(3.1)	84.3	(2.9)	78.3	(3.1)	75.9	(3.4)	89.2	(2.5)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 2/2]

Table II.4.24 Purposes of assessments

Res	ults based on schoo	l princi	pals	' repo		rcentag	e of st	udents	in scho	ools wh	ose nr	incinal	renori	ted that	teach	er-deve	loned	tests ai	e used	to:		-	
					101	Certag	C 01 30	lucins	III SCIIC	JOIS WII	iose pi	ПСІРАІ	терого	lea that	teach	Т	ntify	lests ai	e useu				
		Guid studen learnii	ıts'	Info pare about chil prog	nts their d's	decis abo stud	out ents' ion or	stude:	oup nts for ctional ooses	the so to di	strict	Mor the sc prog from to y	hool's gress year	teac	ments out	instru or curric that	cts of action the culum could proved					certif	ard icates idents
_			S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
OECD	Australia Austria		(0.6)	98.5 83.1	(0.5)	56.3 86.6	(1.8)	80.2 25.1	(1.7)	21.7 8.8	(1.8)	63.3 44.4	(2.0)	42.8 24.9	(1.7)	87.3 44.6	(1.4)	93.0	(1.1)	20.1 6.2	(1.8)	80.0	(1.7)
OE	Belgium		(0.5)	98.9	(1.0)	99.5	(0.4)	39.4	(3.3)	20.4	(2.3)	55.4	(3.2)	38.6	(3.0)	73.1	(3.0)	88.0	(2.4)	17.5	(2.6)	79.0	(2.5)
	Canada		(8.0)	99.0	(0.6)	92.6	(1.3)	66.7	(2.8)	22.4	(2.5)	53.8	(2.9)	27.9	(2.6)	81.6	(1.9)	95.3	(1.3)	15.3	(2.0)	63.0	(2.6)
	Chile Czech Republic		(1.6)	93.0 72.8	(2.3)	81.8 64.9	(3.6)	37.2 52.2	(3.9)	11.7 9.7	(2.6)	73.9 57.8	(3.7)	42.9 31.8	(4.4)	89.0 48.4	(2.6)	90.7	(2.3)	10.3 11.4	(2.3)	52.4 21.4	(4.0)
	Denmark		(2.5)	88.2	(2.9)	14.6	(2.9)	72.2	(3.8)	9.7	(2.2)	19.8	(3.0)	11.8	(2.7)	81.7	(2.7)	93.2	(1.8)	7.0	(1.9)	22.7	(3.3)
	Estonia		(1.9)	86.7	(1.7)	57.6	(2.9)	34.2	(2.8)	29.6	(2.6)	57.0	(2.4)	43.3	(2.6)	72.6	(2.3)	86.5	(1.8)	19.3	(2.4)	59.1	(2.8)
	Finland		(2.1)	96.6	(1.5)	86.2	(2.6)	20.8	(3.4)	17.9	(3.3)	46.5	(4.8)	20.5	(3.6)	46.2	(4.3)	91.8	(2.2)	9.9	(2.6)	90.6	(1.6)
	France Germany		(1.9) (1.4)	96.1 90.8	(1.2)	85.4 75.0	(2.4)	68.7 45.3	(3.0)	25.7 15.4	(3.1)	42.4 54.0	(3.5)	17.3 14.6	(2.6)	62.1 50.6	(3.2)	90.5	(2.0)	15.3 10.7	(2.3)	18.8 86.6	(3.0)
	Greece		(1.6)	97.0	(1.2)	91.2	(1.9)	34.2	(3.7)	12.1	(2.6)	56.7	(3.7)	20.3	(3.0)	65.8	(3.2)	92.2	(2.1)	10.7	(2.3)	19.1	(2.9)
	Hungary		(1.4)	91.0	(2.2)	83.8	(2.8)	77.1	(2.9)	25.5	(3.3)	64.1	(3.4)	53.7	(3.7)	73.6	(3.2)	80.2	(2.9)	15.9	(2.7)	52.0	(3.8)
	Iceland Ireland		(0.1)	95.4 98.6	(0.1)	13.8	(0.2)	48.6 86.4	(0.2)	8.3 40.6	(0.1)	57.4 62.1	(0.3)	22.9 39.9	(0.2)	80.7 72.8	(0.2)	90.6	(0.1)	7.0 18.8	(0.2)	98.0 54.6	(0.1)
	Israel		(1.8)	97.2	(1.0)	84.3	(3.3)	94.3	(2.0)	41.2	(3.6)	74.4	(4.0)	62.6	(4.0)	85.7	(3.2)	87.7	(2.9)	31.4	(4.0)	96.0	(1.5)
	Italy	96.9 ((1.2)	92.9	(2.3)	79.3	(3.2)	65.6	(4.0)	19.3	(3.0)	55.9	(3.5)	15.8	(2.4)	82.7	(3.5)	92.1	(1.9)	17.3	(3.1)	37.8	(3.7)
	Japan Karaa		(0.5)	90.6	(2.2)	96.4	(1.4)	61.6	(3.3)	10.6	(2.0)	44.8	(3.6)	76.2	(3.1)	81.9	(2.7)	75.5	(3.1)	8.1	(1.9)	24.5	(2.9)
	Korea Latvia		(3.2)	76.8 96.7	(2.9)	34.8 75.1	(3.8)	69.1 43.7	(3.7)	22.8 16.6	(3.4)	47.1 69.3	(4.1)	52.9 69.0	(3.9)	74.2 96.3	(3.3)	96.0	(3.4)	24.6 14.5	(3.5)	35.3 7.3	(3.7)
	Luxembourg		(0.0)	95.1	(0.1)	94.0	(0.1)	55.2	(0.1)	19.4	(0.1)	40.5	(0.1)	31.4	(0.1)	68.9	(0.1)	76.0	(0.1)	10.9	(0.1)	66.4	(0.1)
	Mexico		(1.1)	96.4	(1.1)	94.6	(1.4)	68.7	(3.0)	38.9	(3.5)	84.6	(2.7)	60.8	(3.5)	83.5	(2.3)	92.6	(1.8)	42.6	(4.1)	73.5	(3.1)
	Netherlands New Zealand	91.3 ((3.2) C	94.9 98.5	(2.2)	90.8	(2.7)	61.7 84.8	(4.4)	16.1 30.3	(3.6)	62.1	(5.0)	43.7	(4.8)	68.8 92.8	(4.3)	74.9 96.5	(4.0)	9.7	(2.9)	26.0 75.4	(4.5)
	Norway		(1.0)	96.9	(1.1)	6.7	(2.0)	56.2	(4.0)	8.0	(2.2)	28.5	(3.7)	9.5	(2.2)	71.5	(3.7)	92.6	(2.0)	6.0	(1.6)	68.1	(3.4)
	Poland		(0.6)	98.1	(1.1)	64.2	(4.1)	66.4	(3.6)	22.3	(3.3)	72.9	(3.3)	59.6	(3.7)	90.4	(2.4)	97.5	(1.3)	21.3	(3.3)	18.2	(3.4)
	Portugal		(0.0)	98.6	(1.2)	96.3	(1.9)	47.0	(4.1)	27.4	(3.6)	72.3	(4.0)	37.7	(4.0)	84.0	(3.0)	91.6	(2.0)	21.5	(3.5)	60.5	(3.9)
	Slovak Republic Slovenia		(1.7)	86.4 66.2	(2.2)	79.8 79.3	(2.6)	53.5 28.3	(3.1)	12.0 25.0	(1.8)	58.8 57.1	(3.3)	50.2 29.2	(3.2)	62.0 54.0	(3.3)	80.4 70.7	(2.6)	15.3 20.7	(2.1)	59.1 41.3	(3.4)
	Spain		(1.0)	97.4	(1.1)	95.8	(1.5)	46.1	(4.1)	19.8	(3.3)	64.0	(3.6)	32.3	(3.8)	74.4	(3.5)	91.6	(2.1)	17.4	(3.1)	64.8	(3.1)
	Sweden		(1.3)	85.3	(2.6)	20.0	(2.9)	19.2	(2.8)	11.3	(2.3)	42.6	(3.7)	13.4	(2.2)	66.6	(3.9)	89.3	(2.3)	10.7	(2.4)	19.4	(2.9)
	Switzerland Turkey		(2.5) (2.5)	86.0 88.5	(2.8)	77.4 67.2	(3.1)	41.5 50.0	(4.1)	8.9 37.4	(2.2)	30.4 53.1	(3.9)	34.4 51.7	(3.3)	49.2	(3.9)	73.4	(3.5)	7.9 42.3	(1.9)	86.9 57.7	(2.2)
	United Kingdom		(0.1)	99.3	(0.6)	61.8	(3.6)	95.2	(1.2)	38.4	(3.8)	76.9	(3.1)	62.8	(3.7)	89.6	(1.9)	98.1	(0.9)	26.7	(4.2)	55.9	(3.8)
	United States	98.5 ((1.2)	72.8	(3.5)	80.7	(3.0)	25.3	(3.3)	46.7	(3.5)	59.1	(4.2)	92.3	(2.0)	98.5	(0.9)	26.8	(3.0)	55.0	(3.9)
	OECD average	94.0 ((0.3)	92.1	(0.3)	71.1	(0.5)	56.5	(0.5)	20.9	(0.5)	55.8	(0.6)	38.5	(0.5)	72.9	(0.5)	85.8	(0.4)	17.0	(0.5)	54.6	(0.5)
- 9	Albania	98.2 ((0.9)	94.8	(1.7)	84.4	(2.7)	73.2	(3.3)	40.2	(5.0)	75.5	(3.9)	59.5	(4.3)	72.8	(4.3)	93.0	(2.6)	30.0	(4.7)	29.0	(4.6)
ner	Algeria		(2.8)	86.5	(3.2)	90.5	(3.1)	62.2	(4.8)	51.7	(4.7)	84.4	(3.5)	64.5	(4.6)	31.0	(5.0)	38.5	(5.0)	60.9	(4.6)	76.9	(4.2)
Partners	Brazil	99.4 ((1.2)	93.3	(1.3)	61.6	(2.6)	42.8	(2.1)	75.1	(2.5)	52.7	(2.8)	83.5	(2.1)	92.4	(1.7)	23.7	(2.2)	52.7	(2.8)
- 1	B-S-J-G (China) Bulgaria		(1.3)	79.8 67.5	(3.5)	7.4 45.3	(2.2)	49.8	(4.6)	23.8	(3.4)	63.0	(4.4)	52.6 44.7	(4.8)	92.5	(2.2)	95.5 73.0	(1.7)	33.1 26.9	(3.6)	22.3	(3.5)
	CABA (Argentina)		(3.5)	97.1	(2.4)	97.2	(2.3)	41.6	(6.8)	12.8	(4.3)	67.1	(6.3)	40.9	(6.9)	90.1	(4.4)	96.2	(2.8)	4.3	(3.1)	77.8	(6.4)
	Colombia		(0.5)	96.8	(1.4)	90.0	(2.5)	52.8	(3.9)	34.8	(3.5)	80.9	(2.7)	44.7	(3.8)	88.5	(2.6)	87.4	(2.5)	30.6	(3.7)	69.9	(3.3)
	Costa Rica Croatia		(1.2)	96.3	(1.6)	96.9 74.7	(1.2)	47.0 55.3	(3.6)	37.3	(3.7)	69.1	(3.6)	43.8 32.3	(3.9)	74.0	(3.2)	88.6	(2.2)	21.7	(3.3)	77.0 47.4	(3.1)
	Cyprus*		(0.1)	84.1 100.0	(3.1) C	95.3	(0.1)	40.1	(0.2)	35.5 19.2	(0.1)	66.7 73.3	(0.2)	38.1	(0.1)	56.2	(0.1)	85.7	(0.1)	16.0 13.3	(0.1)	52.4	(4.1)
	Dominican Republic	100.0	С	92.6	(2.4)	86.4	(3.2)	73.7	(4.1)	29.7	(4.7)	69.5	(4.8)	42.4	(4.6)	65.9	(4.0)	87.3	(2.9)	27.4	(4.0)	70.2	(4.3)
	FYROM		(0.1)	83.3	(0.1)	37.5	(0.1)	47.8	(0.2)	48.4	(0.2)	73.5	(0.1)	66.1	(0.2)	77.7	(0.1)	79.8	(0.1)	38.4	(0.2)	51.9	(0.2)
	Georgia Hong Kong (China)		(0.4)	97.3 94.7	(1.0)	58.0 93.9	(3.7)	37.4 82.2	(2.9)	51.5 30.7	(3.6)	89.9 92.1	(2.2)	78.0 72.7	(2.7)	83.9 95.4	(2.6)	93.8	(1.5)	36.8 24.3	(3.3)	59.2 75.1	(3.8)
	Indonesia	99.1 ((0.7)	97.3	(1.2)	77.0	(3.4)	86.1	(2.8)	40.7	(3.9)	93.1	(2.3)	87.6	(3.0)	91.3	(2.6)	96.2	(1.5)	46.3	(4.1)	74.5	(3.4)
	Jordan Kasaya	93.4 (95.8 ((1.3)	89.5	(2.5)	89.4	(2.5)	67.6	(4.3)	81.1	(3.3)	66.5	(4.4)	80.7	(3.5)	78.6	(3.4)	61.2	(4.5)	90.3	(2.4)
	Kosovo Lebanon	95.8 ((0.9)	77.9 92.1	(1.4)	72.6 69.3	(1.1)	38.3 48.1	(1.7)	55.2 82.3	(1.7)	47.4 86.0	(1.9)	60.4 85.7	(1.5)	87.5 89.9	(1.2)	37.4 42.3	(1.5)	50.7 71.2	(1.6)
	Lithuania	99.4 (99.1	(0.5)	44.9	(2.9)	61.5	(2.7)	24.9	(2.7)	81.1	(2.1)	51.2	(2.8)	85.8	(2.1)	96.6	(1.0)	19.6	(2.4)	14.4	(2.3)
	Macao (China)	98.0 (95.2	(0.0)	93.8	(0.0)	72.1	(0.1)	21.4	(0.0)	86.9	(0.0)	85.2	(0.0)	96.2	(0.0)	95.2	(0.0)	20.1	(0.1)	84.7	(0.1)
	Malta Moldova		(0.0)	98.4 90.5		23.2 64.8	(0.1)	52.9 50.0	(0.1)	13.3 41.8	(0.1)	49.2 78.4	(0.1)	35.2 67.4	(0.1)	75.2 91.3	(0.1)	78.1 95.9	(0.1)	8.5 32.6	(0.1)	67.3 47.1	(0.1)
	Montenegro	89.4 (77.4	(0.2)	52.4	(0.2)	75.5	(0.2)	43.1	(0.5)	55.3	(0.4)	57.9	(0.5)	55.8	(0.2)	80.1	(0.3)	43.1	(0.3)	39.6	(0.5)
	Peru	97.9 ((1.0)	98.3	(8.0)	90.6	(2.0)	60.3	(3.1)	33.0	(3.0)	84.2	(2.4)	77.7	(2.8)	89.1	(2.2)	92.9	(1.8)	30.8	(2.9)	81.4	(2.8)
	Qatar Romania		(0.0) (0.7)	93.7 96.6	(0.0)	67.7 84.5	(0.1)	70.8	(0.1)	43.8 58.5	(0.1)	73.7 85.6	(0.1)	60.3	(0.1)	84.0 82.5	(0.1)	88.2 91.3	(0.1)	35.7 52.4	(0.1)	80.9 47.2	(0.1)
	Russia		(2.3)		(2.6)	61.3	(3.6)	70.5	(4.1)	27.8	(3.7)	65.6	(2.7)	63.5	(3.9)	77.5	(2.8)	88.9	(2.2)	27.3	(2.7)	70.2	(3.5)
	Singapore	100.0	С	98.1	(0.0)	81.5	(0.6)	95.7	(0.9)	31.2	(1.2)	75.9	(0.9)	76.9	(1.0)	96.6	(0.0)	99.1	(0.0)	25.0	(1.4)	61.1	(1.3)
	Chinese Taipei Thailand	98.3 (94.8 (85.8 94.1	(2.5)	39.8 91.6	(3.3)	41.9	(3.6)	25.9	(3.4)	44.8 84.1	(3.5)	48.5	(3.7)	89.2 87.4	(2.4)	94.7	(1.7)	26.2	(3.6)	39.5 81.7	(3.2)
	Trinidad and Tobago	94.8 ((2.1)		(1.9)	59.5	(2.3)	89.2 68.1	(2.2)	49.3 25.5	(4.1)	84.1 86.0	(3.2)	76.4 71.3	(3.6)	88.8	(2.6)	89.9	(2.1)	50.4 25.4	(0.3)	86.9	(2.7)
	Tunisia	88.4 ((3.3)	66.9	(4.0)	86.1	(3.6)	81.3	(4.0)	45.1	(4.4)	67.7	(4.1)	61.0	(5.0)	53.0	(4.5)	55.3	(4.3)	48.1	(3.8)	78.1	(4.1)
	United Arab Emirates	95.5 (98.8		80.0	(1.9)	89.9	(1.9)	57.2	(2.9)	83.2	(2.1)	75.1	(2.6)	88.0	(1.9)	93.9	(1.2)	57.2	(2.6)	83.2	(2.1)
	Uruguay Viet Nam	98.7 (99.6 (87.6 95.9		93.2 87.4	(1.6) (2.5)	39.6 89.6	(3.5)	20.9 73.0	(2.7)	64.5 90.9	(3.4)	22.6 91.6	(3.1)	80.3 93.2	(2.6)	90.4	(1.7)	16.8 73.7	(2.0)	55.0 85.7	(3.1)
	Argentina**		(0.3)	97.6	(1.2)	92.0	(2.0)	39.9	(3.9)	15.6	(3.0)	62.4	(3.6)	37.3	(3.7)	87.3	(2.7)	93.6	(1.8)	10.1	(2.6)	68.7	(3.9)
	Kazakhstan**	88.5 ((1.9)	95.1	(1.3)	72.7	(3.3)	72.7	(3.2)	60.9	(3.1)	83.3	(2.4)	83.1	(2.5)	88.8	(2.3)	92.4	(2.2)	60.9	(3.5)	44.7	(3.3)
	Malaysia**	99.4 ((0.6)	91.6	(2.1)	58.6	(4.0)	90.0	(2.4)	51.6	(3.9)	79.6	(3.1)	79.2	(3.4)	90.7	(2.2)	91.3	(2.3)	43.4	(4.1)	68.6	(3.8)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** http://dx.doi.org/10.1787/888933436498



[Part 1/1]

Table II.4.27 Use of achievement data for accountability purposes

				e achievement data in the		
		are posted publicly he media)		are tracked over time trative authority		ata are provided to parents
	%	S.E.	%	S.E.	%	S.E.
Australia	69.9	(1.7)	91.1	(1.2)	91.8	(1.1)
Austria	5.9	(1.7)	63.5	(3.1)	38.9	(3.7)
Belgium	2.6	(1.0)	58.6	(3.1)	74.0	(2.8)
Canada	56.7	(2.4)	93.4	(1.2)	79.2	(2.6)
Chile	52.9	(4.2)	86.3	(2.7)	98.4	(0.9)
Czech Republic	29.0	(2.7)	50.1	(3.1)	97.3	(0.9)
Denmark	45.1	(3.7)	74.6	(3.2)	88.6	(2.3)
Estonia	22.9	(2.3)	68.8	(2.2)	83.8	(2.1)
Finland	5.1	(1.9)	42.0	(3.6)	71.1	(3.8)
France	59.2	(3.6)	76.2	(2.8)	90.4	(2.0)
Germany	13.6	(2.5)	37.9	(3.0)	64.5	(3.9)
Greece	32.1 34.5	(3.4)	76.3	(3.5)	97.5	(1.3)
Hungary Iceland	29.8	(3.4) (0.3)	54.6 80.6	(3.8) (0.3)	89.8 98.1	(2.3)
Ireland	33.2	(4.0)	58.3	(4.3)	72.1	(3.9)
Israel	50.5	(3.6)	86.3	(2.9)	59.2	(3.9)
Italy	40.4	(3.7)	28.3	(3.7)	88.7	(2.4)
Japan	3.6	(1.1)	8.1	(2.1)	87.9	(2.4)
Korea	50.2	(4.2)	83.6	(2.8)	86.7	(2.8)
Latvia	31.6	(2.8)	65.0	(2.4)	90.0	(1.6)
Luxembourg	35.0	(0.1)	46.1	(0.1)	80.3	(0.1)
Mexico	30.6	(3.2)	93.0	(1.9)	96.4	(1.5)
Netherlands	77.6	(3.2)	79.3	(3.7)	92.2	(2.6)
New Zealand	79.4	(3.5)	94.3	(1.4)	93.7	(2.1)
Norway	69.1	(3.6)	85.4	(2.4)	71.1	(3.7)
Poland	50.1	(4.5)	80.5	(3.2)	97.8	(1.2)
Portugal	63.6	(3.4)	92.6	(1.9)	96.2	(1.4)
Slovak Republic	73.7	(3.1)	76.5	(2.9)	96.4	(1.2)
Slovenia	64.5	(0.5)	50.9	(0.5)	73.7	(0.3)
Spain	21.3	(2.9)	80.9	(2.9)	89.6	(2.4)
Sweden	65.3	(3.2)	85.5	(2.4)	66.1	(3.5)
Switzerland	7.7	(2.7)	44.3	(3.7)	66.3	(3.8)
Turkey	59.2	(3.6)	98.8	(0.7)	82.1	(3.1)
United Kingdom	91.3	(2.4)	88.9	(2.5)	95.0	(1.4)
United States	92.5	(1.7)	98.6	(1.2)	92.5	(2.2)
OECD average	44.3	(0.5)	70.8	(0.5)	83.9	(0.4)
Albania	42.3	(3.9)	85.2	(2.5)	94.8	(1.8)
Algeria	15.5	(3.1)	58.6	(4.1)	77.8	(3.4)
Brazil B-S-J-G (China)	47.1 7.6	(2.6)	87.3 52.2	(1.7)	92.3	(1.1)
Bulgaria	54.8	(2.3) (3.5)	89.6	(4.2) (2.5)	57.0 79.5	(4.2)
CABA (Argentina)	16.2	(4.4)	60.9	(6.7)	87.2	(5.1)
Colombia	42.2		77.3		97.3	(1.1)
Costa Rica	21.8	(3.8)	97.0	(3.4)	96.1	(1.1)
Croatia	31.0	(4.1)	80.8	(3.3)	88.5	(2.7)
Croatia Cyprus*	22.8	(0.1)	81.5	(0.1)	92.7	(0.1)
Dominican Republic	19.1	(3.4)	90.4	(2.3)	91.2	(2.3)
FYROM	34.5	(0.2)	90.4	(0.1)	90.9	(0.1)
Georgia	7.8	(1.7)	37.3	(3.3)	98.7	(0.7)
Hong Kong (China)	46.0	(3.9)	80.7	(3.7)	66.2	(4.5)
Indonesia	29.9	(3.3)	94.1	(1.9)	92.5	(1.8)
Jordan	24.0	(3.6)	91.8	(1.7)	97.8	(1.0)
Kosovo	62.8	(1.5)	84.9	(1.0)	78.4	(1.0)
Lebanon	19.5	(3.0)	73.9	(3.1)	91.2	(2.2)
Lithuania	31.7	(2.9)	71.4	(2.8)	96.2	(0.9)
Macao (China)	9.5	(0.0)	39.9	(0.1)	84.1	(0.1)
Malta	7.2	(0.0)	67.5	(0.1)	71.3	(0.1)
Moldova	27.6	(3.2)	89.3	(1.9)	87.0	(2.1)
	64.0	(0.4)	89.0	(0.1)	84.4	(0.3)
			60.9	(3.5)	84.7	(2.4)
Montenegro					93.2	(0.1)
Montenegro Peru	10.1	(2.1)		(0,0)		
Montenegro Peru Qatar	10.1 45.6	(2.1) (0.1)	95.1	(0.0)		
Montenegro Peru Qatar Romania	10.1 45.6 60.6	(2.1) (0.1) (4.0)	95.1 77.7	(3.4)	90.2	(2.5)
Montenegro Peru Qatar Romania Russia	10.1 45.6 60.6 73.9	(2.1) (0.1) (4.0) (3.1)	95.1 77.7 100.0	(3.4) c	90.2 98.7	(2.5) (1.1)
Montenegro Peru Qatar Romania Russia Singapore	10.1 45.6 60.6 73.9 24.2	(2.1) (0.1) (4.0) (3.1) (0.6)	95.1 77.7 100.0 97.8	(3.4) c (0.5)	90.2 98.7 76.8	(2.5) (1.1) (1.1)
Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei	10.1 45.6 60.6 73.9 24.2 26.0	(2.1) (0.1) (4.0) (3.1) (0.6) (3.3)	95.1 77.7 100.0 97.8 56.1	(3.4) c (0.5) (3.2)	90.2 98.7 76.8 85.8	(2.5) (1.1) (1.1) (2.3)
Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand	10.1 45.6 60.6 73.9 24.2 26.0 69.0	(2.1) (0.1) (4.0) (3.1) (0.6) (3.3) (3.7)	95.1 77.7 100.0 97.8 56.1 97.4	(3.4) c (0.5) (3.2) (1.2)	90.2 98.7 76.8 85.8 95.8	(2.5) (1.1) (1.1) (2.3) (1.6)
Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	10.1 45.6 60.6 73.9 24.2 26.0 69.0 20.9	(2.1) (0.1) (4.0) (3.1) (0.6) (3.3) (3.7) (0.2)	95.1 77.7 100.0 97.8 56.1 97.4 90.3	(3.4) c (0.5) (3.2) (1.2) (0.2)	90.2 98.7 76.8 85.8 95.8 73.9	(2.5) (1.1) (1.1) (2.3) (1.6) (0.3)
Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	10.1 45.6 60.6 73.9 24.2 26.0 69.0 20.9 29.9	(2.1) (0.1) (4.0) (3.1) (0.6) (3.3) (3.7) (0.2) (4.3)	95.1 77.7 100.0 97.8 56.1 97.4 90.3 87.0	(3.4) c (0.5) (3.2) (1.2) (0.2) (2.7)	90.2 98.7 76.8 85.8 95.8 73.9 96.9	(2.5) (1.1) (1.1) (2.3) (1.6) (0.3) (1.6)
Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	10.1 45.6 60.6 73.9 24.2 26.0 69.0 20.9 29.9 43.5	(2.1) (0.1) (4.0) (3.1) (0.6) (3.3) (3.7) (0.2) (4.3) (2.7)	95.1 77.7 100.0 97.8 56.1 97.4 90.3 87.0 95.9	(3.4) c (0.5) (3.2) (1.2) (0.2) (2.7) (1.0)	90.2 98.7 76.8 85.8 95.8 73.9 96.9	(2.5) (1.1) (1.1) (2.3) (1.6) (0.3) (1.6) (1.4)
Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	10.1 45.6 60.6 73.9 24.2 26.0 69.0 20.9 29.9 43.5 13.9	(2.1) (0.1) (4.0) (3.1) (0.6) (3.3) (3.7) (0.2) (4.3) (2.7) (1.9)	95.1 77.7 100.0 97.8 56.1 97.4 90.3 87.0 95.9 82.1	(3.4) c (0.5) (3.2) (1.2) (0.2) (2.7) (1.0) (2.4)	90.2 98.7 76.8 85.8 95.8 73.9 96.9 96.7 82.7	(2.5) (1.1) (1.1) (2.3) (1.6) (0.3) (1.6) (1.4) (2.1)
Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	10.1 45.6 60.6 73.9 24.2 26.0 69.0 20.9 29.9 43.5 13.9 87.9	(2.1) (0.1) (4.0) (3.1) (0.6) (3.3) (3.7) (0.2) (4.3) (2.7) (1.9) (2.7)	95.1 77.7 100.0 97.8 56.1 97.4 90.3 87.0 95.9 82.1 82.7	(3.4) c (0.5) (3.2) (1.2) (0.2) (2.7) (1.0) (2.4) (2.8)	90.2 98.7 76.8 85.8 95.8 73.9 96.9 96.7 82.7 94.4	(2.5) (1.1) (1.1) (2.3) (1.6) (0.3) (1.6) (1.4) (2.1) (2.4)
Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam Argentina**	10.1 45.6 60.6 73.9 24.2 26.0 69.0 20.9 29.9 43.5 13.9 87.9	(2.1) (0.1) (4.0) (3.1) (0.6) (3.3) (3.7) (0.2) (4.3) (2.7) (1.9) (2.7)	95.1 77.7 100.0 97.8 56.1 97.4 90.3 87.0 95.9 82.1 82.7	(3.4) c (0.5) (3.2) (1.2) (0.2) (2.7) (1.0) (2.4) (2.8)	90.2 98.7 76.8 85.8 95.8 73.9 96.9 96.7 82.7 94.4	(2.5) (1.1) (1.1) (2.3) (1.6) (0.3) (1.6) (1.4) (2.1) (2.4)
Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	10.1 45.6 60.6 73.9 24.2 26.0 69.0 20.9 29.9 43.5 13.9 87.9	(2.1) (0.1) (4.0) (3.1) (0.6) (3.3) (3.7) (0.2) (4.3) (2.7) (1.9) (2.7)	95.1 77.7 100.0 97.8 56.1 97.4 90.3 87.0 95.9 82.1 82.7	(3.4) c (0.5) (3.2) (1.2) (0.2) (2.7) (1.0) (2.4) (2.8)	90.2 98.7 76.8 85.8 95.8 73.9 96.9 96.7 82.7 94.4	(2.5) (1.1) (1.1) (2.3) (1.6) (0.3) (1.6) (1.4) (2.1) (2.4)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** Line** http://dx.doi.org/10.1787/888933436498



Table II.4.29 Change between 2012 and 2015 in the use of achievement data for accountability purposes

Results based on school principals' reports

<u> </u>			se achievement data in the following v	
		are posted publicly he media)	Achievement data a by an administr	
	% dif.	S.E.	% dif.	S.E.
Australia	0.9	(2.6)	-0.5	(1.5)
Austria	0.2	(2.6)	4.7	(5.0)
Belgium	-0.5	(1.5)	7.3	(4.1)
Canada	-4.4	(3.3)	0.7	(1.5)
Chile	-11.6	(5.5)	1.4	(4.0)
Czech Republic	-15.1	(3.9)	-7.4	(4.2)
Denmark	5.4	(5.2)	4.7	(4.5)
Estonia	-11.9	(3.6)	-9.4	(3.0)
Finland	3.5	(2.1)	-5.6	(5.0)
France	13.4	(5.2)	1.0	(4.1)
Germany	3.2	(3.4)	1.6	(4.4)
Greece	5.1	(4.8)	19.0	(5.9)
Hungary	-13.5	(5.1)	-3.1	(5.5)
Iceland	-1.6	(0.3)	2.4	(0.3)
Ireland	13.0	(5.0)	9.9	(5.9)
Israel	2.5	(5.3)	-6.4	(3.6)
Italy	0.0	(4.2)	-1.7	(4.2)
	-1.8		1.1	
Japan		(1.9)		(2.7)
Korea	-20.8	(5.3)	-6.3	(3.8)
Latvia	-0.9	(4.1)	7.3	(4.5)
Luxembourg	21.1	(0.1)	-22.1	(0.1)
Mexico	-12.8	(3.6)	0.3	(2.1)
Netherlands	-13.0	(4.6)	-2.8	(4.9)
New Zealand	-0.9	(4.9)	-1.1	(2.3)
Norway	15.4	(5.2)	1.2	(3.6)
Poland	2.3	(5.9)	2.5	(4.5)
Portugal	11.2	(5.3)	3.9	(3.2)
Slovak Republic	-3.4	(4.1)	-4.1	(4.1)
Slovenia	11.6	(0.9)	-12.5	(0.8)
Spain	8.6	(3.4)	-0.1	(3.6)
Sweden	-15.1	(4.2)	-8.2	(3.0)
Switzerland	1.9	(3.3)	-8.5	(5.0)
Turkey	-7.9	(5.0)	3.3	(1.9)
United Kingdom	4.2	(3.3)	-1.0	(3.2)
United States	0.5	(2.5)	0.2	(1.4)
OECD average	-0.3	(0.7)	-0.8	(0.6)
Albania	17.6	(4.9)	-1.3	(3.7)
Algeria	m	m	m	m
Brazil	6.7	(3.7)	-3.6	(2.1)
B-S-J-G (China)	m	m	m	m
Bulgaria	-0.6	(4.9)	0.4	(3.5)
CABA (Argentina)	0.4	(7.6)	-5.2	(9.8)
Colombia	-9.0	(5.6)	-6.5	(4.7)
Costa Rica	9.6	(4.1)	0.9	(2.0)
Croatia	5.7	(5.3)	-6.7	(4.2)
Cyprus*	6.1	(0.1)	1.7	(0.1)
Dominican Republic	m	m	m	m
FYROM	m	m	m	m
Georgia	m	m	m	m
Hong Kong (China)	13.3	(5.5)	14.3	(5.8)
Indonesia	8.6	(5.0)	30.5	(4.1)
Jordan	3.6	(4.8)	7.4	(3.0)
Kosovo				
	m	m 	m	m
Lebanon	m	m (4.4)	m	m (2.0)
Lithuania	-0.1	(4.4)	-4.1	(3.9)
Macao (China)	1.1	(0.0)	-14.0	(0.1)
Malta	m	m	m	m
Moldova	m	m (2.4)	m	m
Montenegro	-16.0	(0.4)	-4.5	(0.2)
Peru	-0.3	(3.1)	-1.9	(4.8)
Qatar	-2.9	(0.1)	-1.5	(0.1)
Romania	-7.2	(5.7)	8.0	(4.9)
Russia	-3.8	(4.3)	0.5	(0.5)
Singapore	-26.6	(0.7)	-0.9	(0.8)
Chinese Taipei	11.5	(4.3)	8.4	(5.2)
Thailand	-7.4	(4.9)	-0.7	(1.6)
Trinidad and Tobago	m	m	m	m
Tunisia	13.0	(5.1)	10.6	(4.5)
United Arab Emirates	-3.2	(3.9)	4.5	(2.1)
Uruguay				
Uruguav	4.0	(2.9)	9.6	(4.1) (4.5)
Viet Nam	12.6	(4.4)	0.7	
	12.6	(4.4)	4.9	(4.4)
Viet Nam			•	

Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/3]

Table II.4.30 Achievement data posted publicly, science performance and school characteristics

				Percent	age of stud	lents in sch	nools whe	e achieven	nent data	are posted	publicly			
		All st	udents					By sch	ool socio-	economic	profile ¹			
														bottom
		rage		bility		quarter		quarter		quarter		uarter	-	arter
Australia	69.9	S.E. (1.7)	S.D. 45.9	S.E. (0.7)	63.8	S.E. (3.7)	67.2	S.E. (3.8)	% 72.5	S.E. (4.9)	% 75.6	S.E. (3.1)	% dif.	(4.9
Australia Austria Belgium	5.9	(1.7)	23.5	(3.1)	11.7	(4.7)	5.6	(4.1)	3.6	(3.5)	2.5	(3.2)	-9.2	(5.9
	2.6	(1.0)	15.9	(3.2)	1.6	(1.4)	1.4	(1.4)	3.1	(2.9)	4.1	(3.0)	2.6	(3.3
Canada	56.7	(2.4)	49.6	(0.3)	53.3	(5.1)	52.5	(6.2)	63.2	(5.6)	58.7	(6.9)	5.4	(9.2
Chile Czech Republic	52.9 29.0	(4.2)	49.9 45.4	(0.2)	43.1 23.9	(8.4)	54.7 21.3	(9.6) (6.5)	59.9 30.7	(8.9)	54.5 40.0	(7.7)	11.4 16.1	(11.2
Denmark	45.1	(3.7)	49.8	(0.4)	52.3	(6.4)	45.2	(7.4)	45.0	(7.6)	38.2	(8.3)	-14.1	(10.2
Estonia	22.9	(2.3)	42.0	(1.5)	16.9	(4.6)	16.4	(5.8)	28.6	(5.1)	29.5	(3.9)	12.7	(6.0
Finland	5.1	(1.9)	21.9	(4.1)	8.2	(5.6)	6.8	(6.4)	2.6	(2.7)	2.6	(2.4)	-5.5	(6.2
France	59.2	(3.6)	49.1	(0.7)	63.6	(6.2)	62.5	(6.7)	46.7	(9.3)	65.1	(8.7)	1.4	(10.0
Germany	13.6	(2.5)	34.3	(2.7)	7.5	(3.3)	8.9	(4.9)	12.9	(7.4)	25.2	(8.3)	17.7	(9.2
Greece	32.1 34.5	(3.4)	46.7 47.5	(1.3)	12.7	(6.1)	25.4 39.5	(7.7)	29.6	(7.6)	60.8	(8.3)	48.1	(9.9
Hungary Iceland	29.8	(3.4) (0.3)	45.7	(1.1)	18.5 28.4	(5.2) (0.9)	34.6	(7.2) (1.1)	31.4 33.4	(7.6)	49.5 23.1	(8.3)	31.0 -5.3	(9.4
Ireland	33.2	(4.0)	47.1	(1.5)	20.3	(6.0)	29.6	(8.4)	39.6	(11.3)	43.9	(9.0)	23.6	(11.0
Israel	50.5	(3.6)	50.0	(0.1)	38.7	(8.3)	54.4	(8.8)	53.6	(8.5)	55.6	(7.9)	16.9	(11.8
Italy	40.4	(3.7)	49.1	(0.7)	43.9	(8.8)	28.2	(6.6)	31.0	(6.2)	58.9	(6.8)	15.1	(10.9
Japan	3.6	(1.1)	18.7	(2.7)	3.8	(2.7)	4.5	(3.2)	2.0	(2.0)	4.1	(2.5)	0.3	(3.7
Korea	50.2	(4.2)	50.0	(0.1)	39.5	(7.8)	43.1	(10.6)	64.9	(9.1)	53.4	(8.6)	13.8	(11.8
Latvia	31.6	(2.8)	46.5	(1.1)	26.1	(5.9)	23.0	(5.6)	43.1	(7.1)	34.3	(5.3)	8.2	(8.
Luxembourg	35.0	(0.1)	47.7	(0.0)	22.7	(0.2)	25.8	(0.3)	45.7	(0.3)	46.1	(0.2)	23.5	(0
Mexico Netherlands	30.6 77.6	(3.2)	46.1 41.7	(1.4)	21.2 81.0	(5.7) (8.5)	26.6 72.2	(6.6) (11.1)	43.7 76.9	(8.1)	30.9 79.8	(7.2) (7.3)	9.8	(9.1
New Zealand	79.4	(3.5)	40.4	(2.6)	71.7	(8.4)	94.5	(7.0)	65.4	(10.2)	86.6	(5.5)	14.9	(9.4
Norway	69.1	(3.6)	46.2	(1.5)	59.3	(7.2)	62.4	(8.0)	78.4	(7.6)	75.8	(6.6)	16.5	(9.
Poland	50.1	(4.5)	50.0	(0.2)	43.0	(9.3)	41.3	(9.1)	49.5	(9.4)	67.3	(8.0)	24.4	(12.
Portugal	63.6	(3.4)	48.1	(0.9)	58.8	(7.7)	59.4	(7.6)	76.4	(6.3)	60.2	(8.4)	1.4	(11.
Slovak Republic	73.7	(3.1)	44.0	(1.7)	65.6	(7.0)	82.7	(4.7)	74.9	(5.6)	71.5	(7.5)	5.9	(10.
Slovenia	64.5	(0.5)	47.9	(0.2)	59.9	(2.2)	69.9	(1.8)	54.8	(1.4)	73.6	(0.7)	13.7	(2.
Spain	21.3	(2.9)	41.0	(2.1)	25.0	(5.8)	7.9	(4.1)	23.5	(10.3)	29.0	(7.5)	4.0	(9.
Sweden	65.3	(3.2)	47.6	(1.0)	55.6	(7.7)	68.5	(7.4)	71.2	(6.8)	65.7	(6.5)	10.1	(10.
Switzerland	7.7	(2.7)	26.7	(4.3)	2.8	(2.7)	17.0	(9.2)	10.0	(6.1)	0.9	(0.0)	-1.9	(2.2
Turkey	59.2 91.3	(3.6)	49.1 28.3	(0.7)	44.3 88.9	(9.9)	57.3 92.9	(8.6)	66.1 89.5	(9.1)	69.1 93.8	(9.2)	24.7 5.0	(13.2
United Kingdom United States	92.5	(2.4)	26.3	(3.6)	93.5	(4.8)	95.5	(6.2) (4.8)	93.3	(5.3)	87.6	(2.6) (4.1)	-5.9	(5.4
OECD average	44.3	(0.5)	41.7	(0.3)	39.2	(1.0)	42.8	(1.1)	46.2	(1.2)	49.1	(1.1)	9.9	(1.5
	'										•			
Albania	42.3	(3.9)	49.4	(0.7)	41.8	(8.0)	42.9	(8.5)	36.4	(10.9)	45.8	(8.2)	4.1	(11.8
Algeria Brazil	15.5 47.1	(3.1)	36.2 49.9	(3.0) (0.1)	15.8 44.9	(7.4) (4.8)	23.8 56.6	(8.9)	10.9 48.6	(7.3) (6.9)	11.2 38.5	(5.6) (5.4)	-4.6 -6.4	(8.3
B-S-J-G (China)	7.6	(2.3)	26.5	(3.7)	9.8	(4.8)	3.6	(3.2)	9.3	(5.7)	7.7	(4.4)	-2.1	(6.5
Bulgaria	54.8	(3.5)	49.8	(0.4)	46.9	(7.5)	56.1	(9.8)	64.5	(9.4)	51.5	(8.1)	4.6	(11.0
CABA (Argentina)	16.2	(4.4)	36.9	(4.0)	17.3	(6.4)	9.1	(9.1)	24.7	(13.7)	4.8	(5.0)	-12.6	(8.0
Colombia	42.2	(3.8)	49.4	(0.6)	37.6	(8.0)	46.5	(8.6)	48.1	(6.7)	35.7	(7.9)	-1.9	(11.2
Costa Rica	21.8	(3.3)	41.3	(2.3)	23.2	(6.1)	26.1	(7.4)	16.6	(7.3)	21.5	(6.9)	-1.6	(9.
Croatia	31.0	(4.1)	46.3	(1.7)	23.1	(7.0)	32.8	(8.0)	29.5	(8.3)	38.8	(9.2)	15.7	(11.
Cyprus*	22.8	(0.1)	41.9 39.3	(0.1)	25.3	(0.4)	19.8 32.3	(0.4)	7.8	(0.1)	38.1	(0.2)	12.8	(0.5
Dominican Republic FYROM	19.1 34.5	(3.4)	39.3 47.5	(2.7)	8.1 40.4	(6.4)	17.3	(10.4)	21.8 24.4	(7.8)	14.8 58.9	(6.4)	6.8 18.5	(9.0
Georgia	7.8	(1.7)	26.8	(2.7)	10.2	(3.3)	3.2	(2.6)	7.5	(3.9)	10.4	(4.4)	0.2	(5.4
Hong Kong (China)	46.0	(3.9)	49.8	(0.3)	41.4	(6.2)	32.9	(8.6)	56.5	(9.4)	53.5	(9.9)	12.0	(11.8
Indonesia	29.9	(3.3)	45.8	(1.5)	17.4	(5.5)	29.3	(7.4)	27.9	(6.3)	44.8	(8.2)	27.4	(9.
Jordan	24.0	(3.6)	42.7	(2.2)	24.9	(6.6)	20.2	(6.0)	26.9	(8.0)	24.1	(7.3)	-0.8	(9.
Kosovo	62.8	(1.5)	48.3	(0.4)	53.4	(4.2)	59.9	(3.0)	76.2	(3.0)	60.9	(2.6)	7.6	(4.8
Lebanon	19.5	(3.0)	39.6	(2.3)	23.6	(8.0)	27.2	(7.4)	21.3	(6.0)	6.4	(3.5)	-17.1	(9.
Lithuania	31.7	(2.9)	46.5	(1.1)	24.5	(4.7)	29.5	(7.3)	34.2	(6.4)	38.4	(6.3)	13.8	(7.0
Macao (China) Malta	9.5 7.2	(0.0)	29.3 25.8	(0.0)	1.1 2.7	(0.1)	0.0	C C	10.5 14.4	(0.0)	26.5 11.9	(0.1)	25.4 9.2	(0.2
Moldova	27.6	(3.2)	44.7	(1.6)	26.4	(6.1)	20.7	(5.7)	27.7	(7.3)	35.4	(6.9)	9.0	(9.
Montenegro	64.0	(0.4)	48.0	(0.1)	52.4	(1.7)	73.9	(1.0)	86.4	(0.8)	43.1	(0.7)	-9.3	(1.9
Peru	10.1	(2.1)	30.1	(2.8)	10.0	(4.6)	12.4	(4.4)	6.2	(3.5)	11.9	(3.9)	1.9	(5.
Qatar	45.6	(0.1)	49.8	(0.0)	47.5	(0.3)	52.3	(0.4)	34.6	(0.3)	48.0	(0.3)	0.5	(0.
Romania	60.6	(4.0)	48.9	(0.8)	50.3	(9.6)	60.7	(9.5)	61.8	(10.0)	69.8	(8.2)	19.6	(12.
Russia	73.9	(3.1)	43.9	(1.7)	75.8	(6.0)	71.7	(7.2)	71.9	(5.3)	76.1	(9.0)	0.3	(11.
Singapore	24.2	(0.6)	42.8	(0.3)	14.4	(0.2)	30.6	(1.2)	26.5	(1.5)	25.3	(2.0)	10.9	(1.9
Chinese Taipei Thailand	26.0	(3.3)	43.9	(1.8)	20.6	(6.3)	30.6	(8.1)	21.2	(6.4)	31.8	(7.9)	11.2	(10.
Trinidad and Tobago	69.0 20.9	(3.7) (0.2)	46.3 40.7	(1.5)	66.9 5.7	(6.7)	55.3 9.7	(9.2)	78.6 40.3	(7.1)	75.3 29.6	(7.2)	8.4 23.9	(9.
Tunisia	20.9	(4.3)	45.8	(1.9)	26.1	(8.2)	37.6	(9.6)	31.2	(8.7)	23.4	(7.0)	-2.7	(10.
United Arab Emirates	43.5	(2.7)	49.6	(0.4)	33.0	(6.5)	50.1	(6.0)	47.6	(6.6)	41.9	(6.4)	8.9	(8.
Uruguay	13.9	(1.9)	34.6	(1.9)	5.0	(3.8)	19.2	(5.7)	22.9	(5.4)	8.4	(3.7)	3.4	(5.
Viet Nam	87.9	(2.7)	32.6	(3.1)	85.6	(7.0)	90.4	(4.7)	86.3	(5.6)	89.4	(5.0)	3.8	(8.
Argentina**	8.7	(2.1)	28.2	(3.0)	5.5	(3.8)	8.3	(4.1)	12.3	(5.7)	7.9	(4.7)	2.4	(6.0
Kazakhstan**	77.7	(2.7)	41.7	(1.7)	82.3	(7.1)	76.5	(8.2)	75.8	(5.9)	76.0	(4.2)	-6.3	(8.
						(* * 1 /		(~.4)		(0.0)				

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

* Coverage is too small to ensure comparability (see Annex A4).

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[Part 2/3]

Table II.4.30 Achievement data posted publicly, science performance and school characteristics

				Percent	age of stud	lents in scl	nools wher	e achieven	nent data	are posted	publicly			
				By schoo	llocation						By type	of school		
	(few	a or village er than people)	(3 0	wn 00 to people)		ity ver people)	City - r	ural area	Pu	blic	Pri	ivate	Private	– publ
	%	S.E.	%	S.E.	%	S.E.	% dif.	S.E.	%	S.E.	%	S.E.	% dif.	S.I
Australia	71.7	(7.9)	63.5	(4.0)	72.3	(2.0)	0.5	(8.2)	67.5	(2.5)	73.0	(2.5)	5.5	(3.
Australia Austria Belgium	8.6	(8.5)	3.8	(1.7)	8.6	(3.3)	0.0	(9.1)	6.3	(1.9)	3.2	(3.0)	-3.1	(3.
0	0.0	C	3.1	(1.5)	1.8	(1.2)	1.8	(1.2)	W	W	W	W	W	(0.
Canada Chile	47.6 39.7	(10.0) (21.9)	58.8 50.1	(4.3) (7.6)	56.3 54.8	(4.0) (5.1)	8.7 15.2	(11.3) (22.9)	57.8 51.4	(2.3)	44.8 53.1	(8.9) (4.8)	-13.0 1.7	(8.3)
Czech Republic	32.8	(7.5)	27.1	(3.5)	31.2	(6.3)	-1.6	(10.3)	26.9	(2.6)	55.0	(11.1)	28.2	(11
Denmark	64.2	(9.4)	43.7	(4.8)	32.5	(6.3)	-31.7	(11.7)	48.9	(4.4)	34.0	(7.1)	-14.9	(8.
Estonia	9.9	(3.5)	23.9	(3.8)	32.5	(3.8)	22.6	(5.2)	23.5	(2.4)	14.0	(9.3)	-9.4	(9.
Finland	0.0	С	8.7	(3.2)	0.0	С	0.0	С	5.3	(2.0)	0.0	C	-5.3	(2.
France	54.6 19.2	(14.2) (10.9)	60.5 11.8	(4.4)	54.9 16.3	(6.8) (4.9)	0.4 -2.9	(16.0) (11.4)	59.3 13.4	(4.1)	57.9 16.6	(7.3) (9.8)	-1.5 3.2	(8.
Germany Greece	37.1	(10.9)	28.7	(4.2)	38.3	(6.1)	1.2	(13.3)	29.3	(3.5)	87.9	(9.0)	58.6	(9.
Hungary	17.8	(9.6)	30.5	(4.1)	40.4	(5.6)	22.6	(11.4)	32.7	(3.7)	42.2	(9.2)	9.5	(10.
Iceland	33.3	(0.7)	20.1	(0.3)	44.7	(0.5)	11.3	(0.8)	30.1	(0.3)	m	m	m	
Ireland	29.1	(9.7)	30.0	(5.3)	42.2	(8.2)	13.1	(12.6)	21.6	(5.2)	41.3	(5.7)	19.7	(7.
Israel	42.2	(11.4)	59.0	(5.7)	42.0	(6.6)	-0.2	(13.5)	m	m	m	m	m	(4.4
Italy Japan	15.6 m	(13.4) m	38.6 0.0	(4.4) C	46.1 5.0	(6.5) (1.5)	30.5 m	(16.0) m	40.8 2.4	(3.7)	31.5 6.2	(14.3)	-9.3 3.7	(14.
Korea	m	m m	36.3	(12.8)	52.3	(4.4)	m	m m	50.4	(4.9)	49.7	(6.9)	-0.7	(8.
Latvia	31.1	(6.8)	39.0	(4.7)	20.8	(3.0)	-10.3	(7.5)	31.8	(2.8)	24.5	(20.6)	-7.3	(20.
Luxembourg	m	m	33.3	(0.1)	36.8	(0.1)	m	m	39.9	(0.1)	8.6	(0.2)	-31.3	(0.
Mexico	17.4	(6.0)	20.6	(4.4)	43.3	(5.2)	25.9	(8.0)	30.9	(3.5)	29.1	(8.6)	-1.8	(9
Netherlands	m	(1.0.2)	79.9	(4.5)	69.9	(8.8)	m	m (10.1)	80.3	(6.8)	75.6	(5.1)	-4.8	(9
New Zealand Norway	56.6 47.2	(18.3)	81.2 71.0	(4.5) (5.2)	79.2 86.5	(4.6) (6.0)	22.6 39.3	(19.1) (10.1)	79.8 70.1	(3.5)	73.8 0.0	(13.8) c	-5.9 - 70.1	(13
Poland	40.1	(7.1)	56.9	(7.3)	52.7	(8.4)	12.6	(11.0)	49.5	(4.5)	67.9	(20.0)	18.5	(20.
Portugal	52.3	(16.6)	63.6	(3.9)	67.4	(8.6)	15.1	(16.9)	64.7	(3.4)	51.9	(15.2)	-12.8	(15
Slovak Republic	64.3	(5.7)	77.0	(3.8)	68.1	(9.5)	3.8	(11.3)	73.1	(3.2)	78.1	(8.2)	5.0	(8
Slovenia	42.6	(4.4)	70.3	(0.7)	54.1	(0.5)	11.5	(4.5)	65.1	(0.5)	46.7	(8.0)	-18.4	(1.
Spain	30.2	(14.3)	15.2	(3.1)	31.6	(5.8)	1.3	(15.6)	21.9	(3.6)	20.1	(4.7)	-1.8	(5.
Sweden Switzerland	59.7	(13.0) c	63.2 8.7	(4.2)	71.3 7.0	(6.0)	11.6 7.0	(14.6)	65.9 7.5	(3.6)	62.5 12.7	(8.7)	-3.4 5.2	(9
Turkey	8.3	(7.8)	64.5	(6.7)	56.8	(4.5)	48.4	(9.0)	60.4	(3.7)	31.5	(19.7)	-28.9	(20
United Kingdom	97.4	(1.3)	93.5	(2.1)	83.5	(5.7)	-13.9	(5.8)	92.2	(1.9)	76.8	(14.1)	-15.3	(13
United States	93.2	(6.0)	95.0	(2.0)	88.9	(4.4)	-4.3	(8.1)	96.6	(1.4)	43.2	(14.3)	-53.4	(14.
OECD average	37.5	(1.8)	43.7	(0.8)	45.4	(0.9)	8.5	(2.1)	44.0	(0.6)	39.8	(1.8)	-4.7	(1.
Albania	28.6	(6.5)	42.6	(5.9)	54.6	(7.2)	26.1	(9.7)	40.7	(3.9)	54.1	(10.4)	13.4	(10.
Algeria	1.8	(1.9)	20.3	(4.3)	10.2	(6.8)	8.3	(7.0)	15.8	(3.2)	m	m	m	
Brazil	40.2	(9.8)	46.1	(4.1)	49.7	(3.4)	9.5	(11.1)	50.6	(2.8)	26.6	(6.2)	-24.0	(6
B-S-J-G (China)	0.0	C	9.4	(3.3)	6.7	(4.1)	6.7	(4.1)	7.3	(2.4)	10.2	(7.7)	2.9	(8
Bulgaria CABA (Argentina)	15.5	(8.5) m	62.0 m	(5.3)	48.1 17.1	(5.9) (4.7)	32.5	(9.4) m	54.7 17.6	(3.5)	m 15.5	(F 4)	-2.1	(8
Colombia	34.1	(8.6)	39.8	m (6.7)	44.1	(4.7)	m 10.0	(9.8)	45.6	(6.9) (4.1)	31.3	(5.4) (8.8)	-14.3	(9
Costa Rica	21.6	(7.1)	23.5	(4.3)	11.1	(6.1)	-10.5	(9.4)	22.4	(3.6)	18.2	(7.4)	-4.2	(7
Croatia	m	m	31.9	(5.1)	29.1	(6.7)	m	m	31.1	(4.1)	25.9	(22.9)	-5.2	(23
Cyprus*	32.0	(0.6)	21.5	(0.1)	24.1	(0.2)	-7.9	(0.6)	16.2	(0.1)	57.0	(0.4)	40.7	(0
Dominican Republic	8.4	(6.2)	23.1	(4.9)	16.5	(6.1)	8.1	(8.6)	22.0	(4.1)	8.5	(5.2)	-13.5	(6
FYROM	69.2 6.5	(0.4)	38.7 8.4	(0.2)	26.5 7.7	(0.2)	-42.6 1.3	(0.4)	34.8 6.8	(0.2)	27.5 12.1	(0.5)	-7.4 5.3	(0)
Georgia Hong Kong (China)	6.5 m	(2.5) m	0.4 m	(3.6) m	46.0	(3.0)	1.3 m	(3.6) m	77.8	(1.6)	44.4	(4.2)	-33.4	(14
Indonesia	22.2	(5.5)	29.3	(5.0)	47.7	(9.6)	25.5	(12.1)	26.8	(4.2)	34.2	(4.5)	7.5	(5
Jordan	12.2	(5.6)	23.0	(5.1)	30.8	(6.3)	18.6	(8.2)	23.8	(4.0)	26.2	(7.5)	2.4	(8
Kosovo	61.2	(5.9)	59.1	(1.8)	72.5	(2.5)	11.3	(6.4)	63.8	(1.4)	23.0	(18.9)	-40.8	(18
Lebanon	24.3	(8.7)	17.5	(3.5)	23.5	(6.3)	-0.7	(10.9)	23.8	(5.2)	15.6	(3.4)	-8.2	(6
Lithuania Macao (China)	20.3 m	(4.8) m	35.8 m	(4.3) m	33.7 9.3	(4.6)	13.3 m	(6.3) m	31.8 m	(3.0) m	27.4 9.8	(19.8)	-4.4 m	(20
Malta	9.2	(0.2)	6.9	(0.1)	m	(0.0) m	m	m	1.2	(0.0)	12.8	(0.0)	11.6	(0
Moldova	25.6	(3.8)	18.2	(5.3)	46.5	(8.8)	20.9	(9.6)	27.5	(3.2)	m	(0.1) m	m	(0
Montenegro	m	m	67.9	(0.6)	56.8	(0.6)	m	m	64.3	(0.4)	m	m	m	
Peru	8.1	(3.5)	11.4	(2.8)	9.1	(6.7)	1.1	(7.6)	10.4	(2.6)	8.3	(3.4)	-2.0	(4
Qatar	12.7	(0.2)	45.7	(0.1)	48.2	(0.1)	35.6	(0.2)	42.0	(0.1)	51.7	(0.1)	9.7	(0
Romania Russia	41.2 73.6	(10.2)	63.0 68.7	(5.4) (5.1)	63.2 77.3	(6.8)	22.0 3.8	(12.2)	61.3 74.1	(4.1)	m m	m m	m m	
Singapore	/3.6 m	(6.9) m	m	(3.1) m	27.0	(0.7)	3.0 m	(7.7) m	24.3	(0.1)	25.0	(6.7)	0.8	(6
Chinese Taipei	m	m	27.0	(5.1)	25.8	(4.2)	m	m	20.4	(3.8)	37.5	(6.5)	17.2	(7.
Thailand	46.2	(9.1)	74.0	(4.6)	76.6	(7.4)	30.4	(11.8)	71.4	(3.7)	53.4	(12.6)	-17.9	(13
Trinidad and Tobago	17.8	(0.6)	20.3	(0.2)	m	m	m	m	18.0	(0.2)	52.8	(0.6)	34.8	(0
Tunisia	33.1	(18.7)	28.3	(5.4)	31.9	(8.2)	-1.3	(20.4)	29.1	(4.4)	38.1	(27.3)	9.0	(27
United Arab Emirates Uruguay	26.8 8.6	(7.4) (8.0)	38.9 12.9	(5.5) (2.5)	46.7 16.0	(3.6)	19.9 7.4	(8.9) (8.5)	37.0 14.6	(3.2)	47.9 9.8	(3.7) (3.9)	10.9 -4.8	(4
Viet Nam	89.6	(3.6)	83.8	(5.5)	90.2	(4.7)	0.6	(5.8)	87.8	(2.7)	87.1	(14.7)	-4.8	(14
			4.7	(2.0)	14.0	(4.3)	6.2	(8.5)	7.6	(2.1)	13.0	(6.1)	5.4	(6.
Augontino**	7.0											(b 1)		(6)
Argentina** Kazakhstan**	7.8 80.1	(7.5) (4.3)	69.4	(6.8)	80.5	(3.6)	0.5	(5.6)	78.2	(2.8)	64.9	(16.3)	-13.3	(16

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

* Coverage is too small to ensure comparability (see Annex A4).

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*** Coverage is thttp://dx.doi.org/10.1787/888933436498



[Part 3/3]

Table II.4.30 Achievement data posted publicly, science performance and school characteristics

Kes	ults based on school	рттстра	is repor	LS	Percent	tage of stud	lents in scl	hools when	re achieven	nent data	are posted	publicly			
				By educa				Befo	re account	ing for stu	dents'	Afte	r accounti		
		educ	econdary cation ED 2)	Upper se educ (ISCI	econdary ation	ISCED 3	- ISCED 2	Change i score achiever	in science when nent data ed publicly	Explained in st perfor	d variance udent rmance red x 100)	Change i score achieven	n science when nent data d publicly	Explained in st perfor	d variance udent rmance red x 100)
		%	S.E.	%	S.E.	% dif.	S.E.	Score dif.		%	S.E.	Score dif.	S.E.	%	S.E.
Q	Australia	68.7	(1.9)	77.5	(2.8)	8.8	(2.9)	5	(4.4)	0.1	(0.1)	-4	(3.8)	16.5	(1.1)
OECD	Austria Belgium	0.0	(0.6)	6.0 2.7	(1.7)	6.0	(1.7)	-34 61	(16.9) (17.9)	0.7	(0.7)	-6 37	(9.4) (11.8)	31.0 36.2	(1.9)
	Canada	47.0	(4.1)	57.9	(2.5)	10.8	(4.2)	6	(4.7)	0.1	(0.2)	1	(3.1)	10.9	(1.0)
	Chile	55.7	(9.4)	52.7	(4.3)	-2.9	(9.6)	13	(7.5)	0.6	(0.6)	13	(5.4)	27.1	(1.7)
	Czech Republic	24.5	(3.6)	34.4	(3.9)	9.9	(5.2)	25	(7.2)	1.4	(0.9)	9	(4.2)	33.4	(2.1)
	Denmark Estonia	44.8 22.7	(3.7)	36.5	m (10.2)	13.8	(10.3)	-14	(5.8)	0.6	(0.5)	-9 -2	(5.0) (4.2)	12.4 11.0	(1.4)
	Finland	5.0	(1.9)	m	m	m	m	-3	(9.7)	0.0	(0.0)	3	(8.9)	10.9	(1.3)
	France	49.2	(5.6)	62.3	(4.1)	13.1	(6.5)	-8	(9.4)	0.1	(0.3)	-4	(5.1)	37.7	(2.3)
	Germany Greece	14.1	(2.6) C	2.2 33.7	(2.1)	-11.9 33.7	(3.3)	45 48	(13.1)	2.4 5.9	(1.5) (1.9)	17 17	(7.8) (6.4)	35.9 24.1	(2.3)
	Hungary	24.4	(5.7)	35.7	(3.7)	11.3	(6.3)	41	(10.0)	4.0	(2.1)	9	(5.4)	43.8	(2.1)
	Iceland	29.8	(0.3)	m	m	m	m	-6	(3.3)	0.1	(0.1)	-3	(3.3)	4.9	(0.8)
	Ireland	33.0	(4.0)	33.7	(4.2)	0.7	(1.7)	14	(6.1)	0.6	(0.5)	3	(4.2)	15.5	(1.3)
	Israel Italy	58.9 37.7	(7.1)	49.5 40.5	(3.7)	-9.4 2.8	(6.8) (16.7)	30 11	(9.5) (9.5)	2.0 0.4	(1.3)	13 -2	(6.6)	23.7 24.4	(2.3)
	Japan	m	(10.5) m	3.6	(1.1)	m	(10.7) m	-17	(22.3)	0.4	(0.7)	-17	(16.6)	28.2	(2.4)
	Korea	47.4	(11.0)	50.5	(4.5)	3.1	(12.0)	8	(7.5)	0.2	(0.4)	-2	(4.9)	17.9	(2.1)
	Luxombourg	32.0 33.5	(2.8)	21.0 37.0	(4.3)	-11.1 3.5	(4.3)	3 22	(5.3)	0.0	(0.1)	-1 11	(3.7)	12.2 34.7	(1.5)
	Luxembourg Mexico	24.1	(4.9)	34.9	(0.1)	10.8	(6.0)	13	(5.4)	0.7	(0.2)	6	(4.3)	17.4	(2.0)
	Netherlands	77.7	(4.3)	77.3	(5.9)	-0.3	(6.3)	0	(17.6)	0.0	(0.5)	-11	(11.0)	38.4	(4.6)
	New Zealand	77.9	(5.1)	79.5	(3.5)	1.7	(3.5)	-6	(9.7)	0.1	(0.2)	-10	(6.7)	19.9	(2.0)
	Norway Poland	69.1 50.1	(3.6) (4.5)	m m	m m	m m	m m	3 16	(5.5) (6.2)	0.0	(0.1)	7	(4.8) (4.4)	9.1 15.6	(0.9)
	Portugal	62.7	(4.5)	64.1	(3.7)	1.4	(4.6)	4	(7.6)	0.0	(0.2)	1	(4.7)	19.7	(2.0)
	Slovak Republic	65.8	(3.8)	80.9	(3.9)	15.1	(4.5)	12	(13.4)	0.3	(0.7)	4	(6.4)	30.4	(2.3)
	Slovenia	31.6	(9.4)	66.3	(0.1)	34.8	(9.4)	15	(3.2)	0.6	(0.2)	9	(2.9)	35.8	(1.3)
	Spain Sweden	21.3 65.6	(2.9)	m 47.6	m (19.5)	-18.1	m (19.6)	8	(6.0) (7.6)	0.0	(0.1)	-1 3	(4.7) (5.2)	14.4 16.4	(1.2)
	Switzerland	4.6	(2.9)	18.6	(5.1)	14.0	(5.7)	7	(17.6)	0.0	(0.2)	15	(16.7)	24.7	(2.1)
	Turkey	49.2	(14.5)	59.5	(3.7)	10.3	(14.9)	21	(9.4)	1.6	(1.5)	9	(6.5)	26.6	(4.1)
	United Kingdom United States	82.0 92.4	(12.4)	91.3 92.5	(2.4)	9.3	(12.2)	18 10	(9.9) (14.7)	0.3	(0.3)	8 20	(6.5) (14.8)	19.6 14.5	(1.8)
	OECD average	41.3	(1.1)	46.5	(1.0)	5.8	(1.5)	11	(1.7)	0.7	(0.1)	4	(1.3)	22.7	(0.3)
	Albania	37.5	(5.4)	45.0	(4.8)	7.5	(6.7)								
Partners	Algeria	15.9	(3.5)	14.1	(6.0)	-1.8	(6.9)	-12	m (10.2)	0.4	(0.8)	-11	m (6.5)	10.2	(3.1)
artı	Brazil	43.7	(3.7)	47.9	(3.0)	4.2	(4.4)	-5	(6.5)	0.1	(0.2)	1	(4.3)	21.3	(2.2)
۵.	B-S-J-G (China)	5.8	(2.2)	10.6	(3.9)	4.8	(3.9)	1	(27.5)	0.0	(0.4)	8	(18.3)	34.7	(3.0)
	Bulgaria CABA (Argentina)	23.3 16.8	(9.4) (4.6)	55.8 6.9	(3.6) (4.5)	32.5	(10.2)	-19	(12.8) (20.4)	0.3	(0.8)	-14	(6.1) (10.7)	39.4 32.7	(2.8)
	Colombia	43.8	(3.9)	41.1	(4.0)	-2.7	(2.3)	-1	(8.0)	0.0	(0.2)	1	(5.2)	20.0	(2.6)
	Costa Rica	21.2	(3.2)	22.5	(3.9)	1.3	(2.6)	-3	(7.5)	0.0	(0.2)	0	(4.7)	22.6	(2.1)
	Croatia	21.3	m (1.1)	31.1 22.9	(4.1)	m 1.5	m (1.1)	16 15	(9.7) (3.1)	0.6 0.5	(0.8)	8 -4	(5.7)	26.2 17.1	(2.1)
	Cyprus* Dominican Republic	18.7	(6.1)	19.2	(4.0)	0.5	(7.1)	6	(10.9)	0.3	(0.2)	5	(3.2)	26.6	(3.1)
	FYROM	m	m	34.5	(0.2)	m	m	17	(2.5)	0.9	(0.3)	10	(2.5)	14.1	(1.1)
	Georgia	7.5	(2.0)	7.9	(1.7)	0.4	(1.7)	-5	(12.7)	0.0	(0.2)	-10	(8.6)	15.0	(1.6)
	Hong Kong (China) Indonesia	45.6 22.9	(3.9) (4.5)	46.2 37.5	(4.1) (4.6)	0.5 14.7	(1.9)	14 17	(6.5) (6.5)	0.7	(0.7)	8	(5.7) (4.4)	12.9 23.5	(1.9)
	Jordan	24.0	(3.6)	m	(4.0) m	m	(0.2) m	4	(8.1)	0.1	(0.3)	1	(6.5)	12.6	(2.2)
	Kosovo	53.9	(5.0)	65.9	(0.8)	12.0	(5.0)	13	(2.9)	0.8	(0.3)	11	(2.8)	14.7	(1.5)
	Lebanon Lithuania	16.6 31.7	(4.3)	20.5 m	(3.5) m	3.9 m	(5.2) m	-12 9	(11.3)	0.3	(0.6)	5	(9.4) (4.6)	19.1 21.4	(3.2) (2.3)
	Macao (China)	7.7	(0.1)	11.0	(0.1)	3.3	(0.1)	15	(3.8)	0.2	(0.2)	0	(3.8)	2.2	(0.5)
	Malta	m	m	7.2	(0.1)	m	m	30	(6.1)	0.5	(0.2)	-8	(6.0)	24.8	(1.1)
	Moldova	28.2	(3.2)	19.6	(5.2)	-8.6	(4.6)	6	(7.6)	0.1	(0.3)	0	(5.6)	14.1	(1.7)
	Montenegro Peru	80.0	(15.3)	63.5 10.6	(0.1)	-16.4 1.9	(15.3)	-1 -6	(2.3)	0.0	(0.0)	-3 -6	(2.3)	17.1 30.1	(0.9)
	Qatar	45.9	(0.3)	45.5	(0.1)	-0.5	(0.3)	20	(2.0)	1.0	(0.2)	23	(2.0)	15.4	(0.6)
	Romania	60.6	(4.0)	m	m (F. F)	m	m (F. F.)	16	(8.3)	1.0	(1.0)	8	(5.4)	23.4	(2.9)
	Russia Singapore	74.0 19.8	(3.2) (5.1)	72.9 24.3	(5.5) (0.5)	-1.2 4.4	(5.5)	6 26	(7.6) (2.9)	0.1 1.2	(0.3)	6 16	(4.9) (4.3)	9.8 26.6	(1.8)
	Chinese Taipei	10.7	(2.2)	34.4	(4.6)	23.8	(4.5)	8	(10.0)	0.1	(0.4)	1	(5.6)	28.4	(2.5)
	Thailand	69.4	(4.1)	68.8	(4.1)	-0.5	(4.5)	17	(7.9)	0.9	(0.9)	8	(5.7)	18.4	(3.1)
	Trinidad and Tobago	14.7	(0.4)	25.3	(0.2)	10.6	(0.5)	52	(3.2)	5.4	(0.6)	21	(3.1)	36.5	(1.2)
	Tunisia United Arab Emirates	33.1 40.6	(6.7) (4.2)	28.2 43.9	(5.3)	-4.9 3.3	(8.3)	-13 8	(7.0) (6.4)	0.9	(0.9)	-10 5	(5.2) (6.5)	18.9 15.5	(3.8)
	Uruguay	15.0	(3.2)	13.2	(1.8)	-1.8	(3.3)	4	(9.7)	0.2	(0.2)	3	(4.9)	26.3	(1.8)
	Viet Nam	73.8	(13.6)	89.1	(2.5)	15.3	(13.6)	2	(14.4)	0.0	(0.3)	2	(9.2)	19.6	(4.2)
	Argentina**	8.5	(2.0)	8.8	(2.5)	0.2	(1.9)	3	(8.6)	0.0	(0.1)	-4	(6.3)	19.2	(2.2)
	Kazakhstan**	76.6	(2.7)	77.0	(4.0)	0.4	(3.2)	-1	(7.7)	0.0	(0.2)	2 2	(7.3)	8.7	(2.4)
_	Malaysia**	20.4	(7.2)	42.0	(3.8)	21.6	(7.0)	11	(7.0)	0.5	(0.7)		(5.0)	18.2	(2.4)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/3]

Table II.4.31 Achievement data tracked by an administrative authority, science performance and school characteristics

		Per	centage of	students i	n schools v	where achi	evement o	lata are tra	cked over	time by ar	administr	rative autho	ority	
		All st	udents					By sch	ool socio-	economic	profile ¹			
	Ave	rage	Varia	bility	Bottom	quarter	Second	l quarter	Third	quarter	Тор	quarter		botton arter
	%	S.E.	S.D.	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	% dif.	S.I
Australia	91.1	(1.2)	28.5	(1.8)	95.0	(1.7)	91.9	(2.7)	88.7	(3.2)	89.0	(2.8)	-6.0	(3
Austria	63.5	(3.1)	48.1	(0.8)	62.5	(7.0)	64.9	(7.1)	64.2	(7.2)	62.5	(7.1)	0.0	(10.
Belgium	58.6	(3.1)	49.2	(0.5)	46.0	(7.7)	60.8	(7.2)	61.0	(9.3)	66.0	(5.4)	19.9	(9
Canada	93.4	(1.2)	24.8	(2.1)	95.3	(2.0)	93.7	(2.6)	93.8	(2.9)	90.7	(3.3)	-4.6	(3.
Chile	86.3	(2.7)	34.4	(2.9)	88.5	(5.4)	91.6	(4.7)	85.4	(7.0)	80.3	(4.5)	-8.2	(6.
Czech Republic	50.1	(3.1)	50.0	(0.1)	52.8	(6.9)	39.3	(6.9)	56.2	(6.6)	52.0	(6.4)	-0.8	(9.
Denmark	74.6	(3.2)	43.5	(1.8)	81.7	(5.7)	73.5	(7.3)	79.9	(6.6)	63.5	(8.6)	-18.2 -9.4	(11.
Estonia Finland	68.8 42.0	(2.2)	46.3 49.4	(0.9)	71.3 44.9	(6.9) (8.4)	71.0 42.3	(6.1) (8.5)	71.2 37.1	(4.8) (7.4)	61.9 43.8	(4.1)	-9.4	(12.
France	76.2	(2.8)	42.6	(1.7)	85.0	(4.7)	83.4	(5.7)	79.4	(8.6)	58.4	(8.0)	-26.6	(9.
Germany	37.9	(3.0)	48.5	(0.7)	43.9	(7.9)	35.5	(8.4)	39.4	(7.2)	32.9	(6.6)	-10.9	(10.
Greece	76.3	(3.5)	42.5	(2.2)	80.1	(8.2)	73.0	(7.5)	70.3	(6.5)	81.5	(6.8)	1.4	(9.
Hungary	54.6	(3.8)	49.8	(0.3)	46.8	(6.6)	56.6	(6.4)	54.6	(8.0)	60.7	(9.8)	13.9	(12.
Iceland	80.6	(0.3)	39.5	(0.2)	80.5	(0.7)	91.5	(0.3)	84.0	(0.5)	65.9	(0.6)	-14.5	(0.
Ireland	58.3	(4.3)	49.3	(0.2)	67.9	(7.6)	64.2	(10.5)	58.1	(11.2)	43.6	(11.7)	-24.3	(15.
Israel	86.3	(2.9)	34.4	(3.1)	83.6	(7.0)	90.3	(6.2)	87.1	(9.1)	84.4	(7.6)	0.8	(10
Italy	28.3	(3.7)	45.0	(1.8)	31.5	(8.6)	24.8	(7.4)	29.2	(7.2)	27.5	(7.0)	-4.0	(11.
Japan	8.1	(2.1)	27.3	(3.2)	9.0	(4.6)	7.7	(4.3)	11.7	(4.8)	4.1	(2.5)	-4.8	(5.
Korea	83.6	(2.8)	37.0	(2.6)	77.8	(6.3)	85.8	(6.5)	80.5	(6.7)	90.3	(5.2)	12.4	(8.
Latvia	65.0	(2.4)	47.7	(0.8)	65.2	(6.1)	69.8	(5.6)	67.1	(6.6)	58.1	(5.1)	-7.1	(8
Luxembourg	46.1	(0.1)	49.8	(0.0)	34.6	(0.1)	34.3	(0.3)	45.3	(0.0)	70.2	(0.1)	35.6	(0
Mexico	93.0	(1.9)	25.6	(3.3)	85.1	(5.8)	92.5	(4.2)	97.9	(1.6)	96.3	(2.6)	11.2	(6
Netherlands	79.3	(3.7)	40.5	(2.7)	88.4	(7.9)	75.2	(10.8)	71.4	(9.4)	81.8	(8.5)	-6.6	(11
New Zealand	94.3	(1.4)	23.2	(2.7)	97.3	(2.4)	90.6	(3.7)	96.5	(3.6)	93.0	(2.4)	-4.3	(3
Norway	85.4	(2.4)	35.3	(2.4)	81.8	(5.7)	89.9	(5.9)	82.1	(6.0)	88.4	(4.8)	6.6	(7
Poland	80.5	(3.2)	39.6	(2.5)	73.2	(7.7)	81.9	(7.2)	90.9	(6.6)	76.0	(7.3)	2.8	(10
Portugal	92.6	(1.9)	26.2	(3.2)	92.8	(3.4)	88.1	(4.8)	97.1	(4.3)	92.4	(4.7)	-0.4	(5
Slovak Republic	76.5	(2.9)	42.4	(1.8)	79.6	(4.8)	79.3	(6.5)	68.3	(6.6)	78.6	(5.2)	-1.1	(7
Slovenia	50.9	(0.5)	50.0	(0.0)	57.3	(1.5)	60.8	(1.7)	50.1	(1.7)	35.6	(0.9)	-21.7	(1
Spain	80.9	(2.9)	39.3	(2.3)	80.5	(6.5)	75.3	(5.9)	85.8	(6.0)	81.9	(6.1)	1.4	(9
Sweden	85.5	(2.4)	35.2	(2.4)	79.5	(6.2)	88.5	(3.6)	80.6	(5.1)	93.3	(3.7)	13.7	(7.
Switzerland	44.3	(3.7)	49.7	(0.4)	45.9	(7.4)	54.7	(10.7)	28.6	(9.0)	47.2	(7.3)	1.4	(11.
Turkey	98.8	(0.7)	10.8	(3.3)	100.0	(7.1) C	98.7	(1.4)	96.6	(2.5)	100.0	(0.0)	0.0	(0
United Kingdom	88.9	(2.5)	31.5	(3.1)	93.6	(3.9)	93.0	(4.2)	88.8	(5.3)	80.8	(5.7)	-12.8	(6.
United States	98.6	(1.2)	11.7	(5.0)	100.0	(J.J)	95.5	(4.8)	100.0	(1.9)	99.1	(0.9)	-0.9	(0
OECD average	70.8	(0.5)	38.5	(0.4)	71.4	(1.0)	71.7	(1.1)	70.8	(1.1)	69.5	(1.0)	-1.9	(1.
Albania	85.2	(2.5)	35.5	(2.6)	85.2	(6.2)	89.2	(4.1)	85.1	(6.1)	81.1	(5.7)	-4.1	(8.
Algeria	58.6	(4.1)	49.3	(0.7)	61.6	(10.9)	56.3	(8.8)	47.9	(9.7)	68.2	(9.2)	6.7	(13
Brazil	87.3	(1.7)	33.3	(1.9)	84.6	(3.5)	84.0	(4.4)	94.2	(2.2)	86.7	(3.3)	2.1	(5
B-S-J-G (China)	52.2	(4.2)	50.0	(0.3)	43.8	(7.9)	56.0	(10.7)	46.6	(10.4)	62.5	(8.2)	18.7	(10
Bulgaria	89.6	(2.5)	30.6	(3.2)	89.5	(5.4)	86.6	(5.5)	87.6	(6.0)	94.8	(3.4)	5.2	(6
CABA (Argentina)	60.9	(6.7)	48.8	(1.6)	94.2	(8.4)	82.0	(10.3)	56.1	(19.6)	16.0	(13.5)	-78.2	(14
Colombia	77.3	(3.4)	41.9	(2.2)	77.9	(8.1)	75.2	(7.8)	70.1	(6.7)	86.2	(5.5)	8.2	(9
Costa Rica	97.0	(1.3)	17.0	(3.6)	94.6	(3.5)	97.5	(2.8)	100.0	(2.0)	95.9	(2.9)	1.2	(4
Croatia	80.8	(3.3)	39.4	(2.6)	83.5	(7.3)	71.9	(8.2)	79.7	(6.6)	87.9	(5.9)	4.4	(9
Cyprus*	81.5	(0.1)	38.8	(0.1)	81.6	(0.4)	83.7	(0.5)	90.8	(0.2)	70.0	(0.2)	-11.6	(0
Dominican Republic	90.4	(2.3)	29.5	(3.2)	91.1	(5.1)	92.4	(5.4)	83.0	(6.7)	94.2	(3.9)	3.1	(6
FYROM	92.1	(0.1)	27.1	(0.1)	83.5	(0.2)	94.2	(0.2)	96.9	(0.1)	94.1	(0.1)	10.5	(0
Georgia	37.3	(3.3)	48.4	(0.9)	46.3	(5.4)	27.9	(6.2)	37.2	(8.1)	38.3	(8.3)	-8.0	(10
Hong Kong (China)	80.7	(3.7)	39.5	(2.9)	79.0	(8.2)	72.5	(8.7)	86.7	(6.9)	84.9	(6.9)	5.9	(10
Indonesia	94.1	(1.9)	23.5	(3.7)	90.0	(5.6)	97.3	(2.2)	94.8	(2.9)	94.4	(3.9)	4.4	(6
Jordan	91.8	(1.7)	27.5	(2.6)	96.5	(3.4)	89.1	(4.8)	91.9	(4.0)	89.7	(4.2)	-6.9	(5
Kosovo	84.9	(1.0)	35.8	(1.0)	84.2	(3.3)	82.1	(2.0)	91.1	(2.6)	82.3	(2.1)	-2.0	(3
Lebanon	73.9	(3.1)	43.9	(1.8)	70.3	(7.9)	74.8	(6.5)	73.0	(7.2)	77.7	(5.7)	7.4	(9
Lithuania	71.4	(2.8)	45.2	(1.3)	71.7	(5.7)	82.2	(5.8)	68.5	(7.0)	63.4	(6.3)	-8.3	(9
Macao (China)	39.9	(0.1)	49.0	(0.0)	11.9	(0.2)	12.5	(0.1)	69.9	(0.3)	59.3	(0.2)	47.4	(0)
Malta	67.5	(0.1)	46.8	(0.1)	62.5	(0.2)	85.7	(0.2)	55.3	(0.4)	66.3	(0.3)	3.8	(0
Moldova	89.3	(1.9)	30.9	(2.4)	86.5	(4.4)	83.1	(3.6)	95.4	(3.3)	92.2	(4.2)	5.8	(6
Montenegro	89.0	(0.1)	31.2	(0.2)	74.9	(0.9)	97.9	(1.0)	83.3	(0.2)	100.0	C	25.1	(0
Peru	60.9	(3.5)	48.8	(0.8)	56.6	(6.5)	56.7	(7.2)	57.6	(7.5)	73.0	(7.0)	16.4	(10
Qatar	95.1	(0.0)	21.6	(0.1)	95.0	(0.1)	98.7	(0.1)	96.5	(0.1)	90.2	(0.1)	-4.8	(0
Romania	77.7	(3.4)	41.6	(2.3)	76.7	(8.1)	74.3	(9.2)	72.2	(7.6)	87.8	(6.5)	11.1	(10
Russia	100.0	С	0.0	C	100.0	C	100.0	С	100.0	С	100.0	С	0.0	
Singapore	97.8	(0.5)	14.6	(1.5)	98.4	(0.1)	96.4	(0.1)	97.6	(0.1)	98.9	(1.9)	0.6	(1.
Chinese Taipei	56.1	(3.2)	49.6	(0.4)	52.0	(6.6)	57.4	(8.1)	56.3	(8.0)	58.5	(8.8)	6.4	(10
Thailand	97.4	(1.2)	15.8	(3.7)	99.5	(0.5)	94.7	(4.1)	98.4	(3.7)	97.1	(2.8)	-2.3	(2
Trinidad and Tobago	90.3	(0.2)	29.6	(0.3)	84.9	(1.0)	86.9	(1.2)	95.3	(0.2)	94.9	(0.3)	10.0	(1
Tunisia	87.0	(2.7)	33.6	(3.0)	82.3	(5.7)	83.3	(6.5)	94.1	(4.0)	88.7	(6.0)	6.4	(8
United Arab Emirates	95.9	(1.0)	19.8	(2.3)	99.4	(0.4)	94.6	(3.1)	97.5	(1.9)	92.1	(1.5)	-7.4	(1
Uruguay	82.1	(2.4)	38.3	(2.1)	84.7	(4.6)	90.9	(4.5)	77.5	(5.9)	75.3	(6.1)	-9.4	(7
Viet Nam	82.7	(2.8)	37.8	(2.4)	80.2	(7.4)	90.6	(7.1)	81.3	(7.9)	79.1	(6.4)	-1.2	(10
Argentina**	81.0	(3.1)	39.3	(2.5)	82.7	(7.2)	80.6	(7.1)	82.1	(6.5)	79.0	(5.4)	-3.7	(8
		(1.1)	17.0	(3.0)	94.8	(2.4)	94.3	(3.4)	99.0	(1.0)	100.0	(J. 1)	5.2	(2
Kazakhstan**	97.0	(1.1)											5.2	

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

** See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 2/3]

Table II.4.31 Achievement data tracked by an administrative authority, science performance and school characteristics

ne.	ults based on school	principe			students i	n schools v	where achi	evement o	lata are tra	cked over	time by an	administr	rative autho	ority	
						location							of school	,	
		(few	ea or village er than people)	(3 0	wn 00 to) people)	C (o	ity ver) people)	City - r	ural area	Pu	blic		ivate	Private	- public
		%	S.E.	%	S.E.	%	S.E.	% dif.	S.E.	%	S.E.	%	S.E.	% dif.	S.E.
Q.	Australia	98.3	(2.5)	89.6	(2.7)	91.3	(1.5)	-7.0	(2.9)	96.2	(1.0)	84.7	(2.5)	-11.5	(2.7)
OECD	Austria	79.7	(7.5)	62.3	(4.1)	60.5	(6.5)	-19.1	(10.0)	65.2	(3.3)	49.0	(10.1)	-16.2	(10.9)
0	Belgium Canada	78.3 93.6	(14.2)	61.9 97.3	(3.6)	52.3 90.4	(5.9)	-26.0 -3.1	(16.9)	93.6	(1.2)	92.3	(3.8)	-1.2	(4.0)
	Chile	89.6	(8.7)	83.8	(5.3)	87.5	(3.1)	-2.1	(9.2)	92.6	(3.9)	82.3	(3.7)	-10.3	(5.4)
	Czech Republic	42.4	(8.6)	51.0	(4.1)	51.2	(6.1)	8.8	(10.4)	46.4	(3.3)	92.6	(3.6)	46.2	(4.9)
	Denmark	65.7	(9.1)	80.3	(3.2)	60.9	(8.2)	-4.7	(12.4)	87.6	(2.8)	32.2	(7.7)	-55.3	(8.2)
	Estonia	66.3	(5.6)	67.6	(3.6)	71.8	(2.4)	5.5	(6.1)	69.7	(2.3)	63.5	(13.2)	-6.2	(13.5)
	Finland	28.4	(9.7)	45.6	(5.2)	41.1	(6.0)	12.6	(11.1)	40.9 79.9	(3.9)	56.8	(17.7)	15.9	(18.1)
	France Germany	86.1 46.7	(8.4) (14.0)	78.5 34.5	(3.8)	69.5 42.5	(5.6) (7.5)	-16.6 -4.3	(10.5) (17.5)	39.5	(3.1)	62.5 11.1	(7.5) (10.2)	-17.4 -28.4	(8.2)
	Greece	84.8	(8.8)	75.3	(5.0)	75.3	(5.4)	-9.5	(9.7)	76.3	(3.7)	73.2	(4.6)	-3.1	(5.9)
	Hungary	26.2	(10.7)	49.2	(5.1)	63.0	(5.7)	36.8	(12.0)	59.5	(3.9)	31.6	(9.5)	-28.0	(9.7)
	Iceland	74.9	(0.8)	86.5	(0.3)	74.8	(0.3)	-0.1	(0.9)	80.2	(0.3)	m	m	m	m
	Ireland	69.4	(10.9)	57.9	(5.7)	51.2	(8.3)	-18.1	(14.3)	59.2	(4.7)	57.6	(6.4)	-1.5	(7.9)
	Israel	92.3	(6.2) (4.0)	88.0 27.1	(4.4) (4.4)	81.7 32.4	(4.9)	-10.7 28.7	(8.0)	m 27.1	(2.9)	54.7	(14.1)	27.6	m (14.5)
	Italy Japan	3.0 m	(4.0) m	8.7	(3.8)	7.9	(6.6)	20.7 m	(o.2) m	11.2	(3.8)	1.6	(14.1)	-9.5	(2.9)
	Korea	m	m	85.9	(8.2)	83.6	(3.3)	m	m	80.5	(3.6)	89.4	(4.3)	8.9	(5.5)
	Latvia	72.4	(5.9)	69.9	(3.9)	52.3	(4.5)	-20.0	(8.1)	66.2	(2.5)	11.9	(14.1)	-54.3	(14.7)
	Luxembourg	m	m (7.2)	49.7	(0.1)	41.0	(0.2)	m	m	48.0	(0.1)	35.6	(0.2)	-12.4	(0.3)
	Mexico Netherlands	85.4 m	(7.3) m	91.2 84.2	(3.2)	96.9 65.3	(1.6) (9.2)	11.5 m	(7.5) m	93.5 70.5	(2.0)	88.8 84.1	(6.2) (4.3)	-4.7 13.5	(6.6) (7.9)
	New Zealand	100.0	C	95.6	(1.4)	94.6	(2.4)	-5.4	(2.4)	94.5	(6.7) (1.4)	90.9	(7.8)	-3.6	(8.1)
	Norway	76.9	(6.8)	85.5	(3.1)	94.8	(3.7)	17.9	(7.7)	86.8	(2.5)	62.9	(23.9)	-23.9	(24.1)
	Poland [']	77.9	(5.4)	82.8	(5.2)	80.2	(6.4)	2.3	(8.4)	81.6	(3.2)	51.4	(20.9)	-30.2	(21.2)
	Portugal	100.0	(0.0)	92.4	(2.1)	92.0	(4.5)	-8.0	(4.5)	94.1	(1.8)	65.6	(12.4)	-28.5	(12.5)
	Slovak Republic Slovenia	80.6	(4.9)	74.4	(3.8)	83.1	(7.1)	2.5	(9.5)	75.2 50.7	(3.3)	86.1	(5.6)	10.9 5.1	(6.6)
	Spain	93.2	(4.9) (19.3)	56.1 78.4	(0.5)	33.1 87.1	(0.5)	-60.1 20.7	(4.9) (19.9)	82.2	(0.5)	55.7 77.9	(0.7)	-4.3	(0.9)
	Sweden	76.8	(10.8)	85.4	(2.9)	88.1	(4.2)	11.3	(11.7)	88.0	(2.6)	73.8	(7.8)	-14.2	(8.5)
	Switzerland	48.8	(11.8)	46.9	(4.7)	33.7	(8.7)	-15.1	(15.1)	43.9	(3.9)	52.4	(10.7)	8.5	(11.7)
	Turkey	100.0	С	97.7	(1.7)	99.5	(0.6)	-0.5	(0.6)	98.8	(0.8)	100.0	С	1.2	(0.8)
	United Kingdom United States	87.5 100.0	(8.0) C	88.3 99.6	(3.2)	90.7 97.0	(4.4)	3.2 -3.0	(9.1)	90.9	(2.3) c	57.2 81.7	(14.1) (13.8)	-33.7 -18.3	(13.9) (13.8)
	OECD average	73.9	(1.5)	71.7	(0.4)	69.1	(0.9)	-2.3	(1.8)	71.0	(0.6)	62.1	(1.8)	-8.6	(1.9)
Partners	Albania	79.0 54.1	(4.9) (11.6)	82.4 55.0	(5.2) (4.9)	94.2 73.3	(2.9)	15.2 19.1	(5.9)	85.3 57.6	(2.8)	85.1	(5.6)	-0.2	(6.4)
rţ	Algeria Brazil	80.3	(7.4)	84.1	(3.0)	90.3	(2.1)	10.0	(16.1)	87.5	(1.9)	87.7	(3.6)	0.2	m (4.2)
P	B-S-J-G (China)	45.7	(13.7)	49.6	(5.7)	57.5	(7.0)	11.7	(15.1)	51.6	(4.3)	54.0	(14.1)	2.4	(14.5)
	Bulgaria	95.5	(3.6)	88.4	(3.4)	90.7	(3.7)	-4.7	(5.1)	90.1	(2.4)	m	m	m	m
	CABA (Argentina)	m	m	m	m	61.0	(7.0)	m	m	84.7	(7.7)	38.6	(9.1)	-46.2	(11.0)
	Colombia Costa Rica	67.1 96.9	(10.7)	82.4 96.4	(5.9) (1.7)	77.2 100.0	(4.2)	10.0 3.1	(11.3)	75.9 98.1	(4.1)	82.9 89.2	(5.4) (6.9)	7.0 -8.9	(6.8) (6.9)
	Croatia	96.9 m	(3.0) m	74.6	(4.6)	89.4	(4.3)	3.1 m	(3.0) m	80.4	(1.1)	96.7	(4.8)	16.3	(5.8)
	Cyprus*	98.9	(0.4)	78.4	(0.2)	85.6	(0.1)	-13.3	(0.4)	86.9	(0.1)	53.6	(0.4)	-33.3	(0.4)
	Dominican Republic	88.6	(6.8)	91.2	(2.6)	88.7	(5.4)	0.0	(8.7)	91.1	(2.6)	87.9	(5.0)	-3.2	(5.6)
	FYROM	100.0	С	87.3	(0.1)	98.3	(0.1)	-1.7	(0.1)	91.8	(0.1)	100.0	С	8.2	(0.1)
	Georgia Hong Kong (China)	45.3 m	(4.2) m	37.5 m	(6.7) m	33.3 80.7	(6.0)	-12.0 m	(7.1) m	37.0 78.7	(3.7)	44.2 81.5	(13.9)	7.2	(14.6) (15.9)
	Indonesia	93.2	(4.4)	94.3	(2.3)	95.3	(3.9)	2.2	(5.9)	93.6	(2.7)	94.9	(2.8)	1.2	(3.8)
	Jordan	92.5	(4.7)	90.7	(2.3)	92.8	(3.4)	0.2	(6.6)	92.0	(1.9)	90.2	(3.9)	-1.8	(4.4)
	Kosovo	76.4	(5.7)	83.1	(1.0)	93.3	(0.3)	16.8	(5.7)	85.2	(1.0)	76.0	(4.8)	-9.1	(4.9)
	Lebanon	68.0	(6.7)	76.2	(3.9)	72.5	(7.4)	4.5	(9.9)	68.6	(4.6)	78.8	(3.8)	10.2	(5.8)
	Lithuania Macao (China)	69.1 m	(6.9) m	79.3 m	(4.3) m	64.2 39.8	(4.4)	-4.9 m	(8.4) m	71.5 m	(2.7) m	69.6 39.1	(28.8)	-1.8 m	(28.8) m
	Malta	24.4	(0.3)	75.3	(0.2)	m	m	m	m	67.6	(0.2)	64.8	(0.2)	-2.7	(0.3)
	Moldova	85.7	(2.5)	91.5	(3.9)	95.1	(4.0)	9.4	(4.9)	89.3	(1.9)	m	m	m	m
	Montenegro	m	m	96.1	(0.2)	75.7	(0.3)	m	m	89.5	(0.1)	m	m	m	m
	Peru Qatar	60.5 92.3	(5.5)	62.4 98.2	(4.8)	51.6 92.5	(8.8)	-8.9 0.2	(10.6)	59.6	(3.9)	65.0 91.0	(6.0)	5.4 -7.0	(6.6)
	Qatar Romania	73.1	(0.3) (7.2)	98.2 77.7	(0.0) (4.9)	79.4	(0.1)	6.3	(0.3) (9.9)	98.0 78.6	(0.0)	91.0 m	(0.1) m	-/.0 m	(0.1) m
	Russia	100.0	(7.2) C	100.0	(4. <i>3</i>)	100.0	(0.5)	0.0	(J.J)	100.0	(J.J)	m	m	m	m
	Singapore	m	m	m	m	97.5	(0.5)	m	m	97.9	(0.0)	96.8	(5.7)	-1.1	(5.7)
	Chinese Taipei	m	m (F.O)	53.3	(4.9)	58.1	(4.4)	m	m	59.4	(3.9)	49.7	(6.2)	-9.6	(7.6)
	Thailand Trinidad and Tobago	92.6 94.9	(5.0)	99.1	(0.6)	96.4	(3.6)	3.8	(6.1)	97.7	(1.3)	95.8	(4.3)	-1.9	(4.4)
	Tunisia and Iobago	68.0	(0.6) (18.3)	89.4 89.6	(0.2)	83.3	m (6.2)	m 15.3	m (19.4)	90.5 86.8	(0.2)	83.4 91.7	(0.6)	-7.1 4.9	(0.6)
	United Arab Emirates	97.9	(0.4)	96.6	(2.2)	95.3	(1.2)	-2.5	(1.3)	98.2	(0.9)	95.0	(1.4)	-3.2	(1.7)
	Uruguay	92.0	(4.3)	86.1	(3.0)	75.2	(3.9)	-16.8	(6.1)	85.6	(2.5)	63.0	(7.0)	-22.6	(7.4)
	Viet Nam	80.5	(4.4)	84.1	(5.9)	83.8	(4.6)	3.3	(6.8)	83.3	(2.9)	66.3	(20.0)	-17.0	(20.5)
	Argentina**	75.8	(13.4)	83.1	(4.0)	80.0	(4.9)	4.2	(14.2)	84.1	(3.5)	72.7	(6.1)	-11.4	(7.0)
	Kazakhstan**	94.8	(2.6)	94.8	(2.8)	100.0	(2.6)	5.2	(2.6)	96.9	(1.1)	100.0	(6. A)	3.1	(1.1)
	Malaysia**	95.0	(5.1)	93.9	(2.9)	94.8	(2.6)	-0.1	(5.8)	94.6	(1.9)	93.7	(6.4)	-0.9	(6.7)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

* Coverage is too small to ensure comparability (see Annex A4).

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** The socio-economic profile is measured by the profile is the profile in the profile is the profile in the profile is the profile is the profile in the profile in the profile in the profile is the profile in the profile in the profile in the profile is the profile in the p



[Part 3/3]

Table II.4.31 Achievement data tracked by an administrative authority, science performance and school characteristics

	ults based on school				students i	n schools v	where ach	ievement d	lata are tra	cked over	time by an	administra	ative autho	ority	
				By educa	tion level					ing for stu				ng for stud o-economic	
		educ	econdary cation ED 2)	Upper se	econdary cation ED 3)	ISCED 3	- ISCED 2	Change score achiev data are over tir admin	in science when wement e tracked ne by an istrative nority	Explained in str	l variance udent mance ed x 100)	Change i score achiev data are over tin admini	n science when vement tracked ne by an strative ority	Explained in str	
		%	S.E.	%	S.E.	% dif.	S.E.	Score dif.	S.E.	%	S.E.	Score dif.	S.E.	%	S.E.
Q.	Australia	90.9	(1.3)	92.0	(2.1)	1.1	(2.2)	-14	(7.0)	0.2	(0.2)	-3	(5.0)	16.4	(1.1)
OECD	Austria	54.4	(15.7)	63.7	(3.2)	9.3	(16.1)	11	(9.1)	0.3	(0.4)	8	(5.5)	31.4	(1.8)
0	Belgium	38.3	(5.7)	60.4	(3.1)	22.1	(5.3)	25	(8.1)	1.5	(1.0)	12	(4.8)	36.6	(2.2)
	Canada Chile	94.5 88.4	(2.2)	93.2 86.2	(1.2)	-1.3 -2.2	(2.1)	-2 -5	(6.5) (10.5)	0.0	(0.0)	7	(5.5) (6.8)	10.9 26.8	(1.0)
	Czech Republic	42.3	(4.3)	59.4	(4.0)	17.2	(5.6)	3	(6.7)	0.0	(0.2)	0	(4.0)	33.2	(2.1)
	Denmark	74.5	(3.2)	m	m	m	m	-7	(7.1)	0.1	(0.2)	-2	(5.4)	12.1	(1.4)
	Estonia	68.8	(2.3)	73.2	(7.9)	4.4	(7.9)	-9	(5.6)	0.2	(0.3)	-4	(4.7)	11.0	(1.4)
	Finland	42.0	(3.7)	m	m	m	m	-8	(5.2)	0.2	(0.2)	-7	(4.0)	11.0	(1.3)
	France	81.3	(4.7)	74.7	(3.2)	-6.6	(5.2)	-34	(10.1)	2.1	(1.3)	-3	(5.8)	37.1	(2.2)
	Germany	36.6	(3.1)	68.1	(13.4)	31.5	(13.9)	1	(8.6)	0.0	(0.1)	9	(5.4)	35.8	(2.4)
	Greece Hungary	75.2 40.3	(10.8)	76.3 56.2	(3.7)	1.1	(11.3)	-4 14	(11.8) (10.0)	0.0	(0.3)	-1 0	(7.0) (5.4)	23.5 43.7	(2.7)
	Iceland	80.6	(0.3)	m	m	m	(0.7) m	4	(4.4)	0.0	(0.1)	6	(4.4)	5.1	(0.8)
	Ireland	58.3	(4.3)	58.1	(4.5)	-0.2	(1.8)	-11	(5.7)	0.3	(0.4)	-2	(3.6)	15.5	(1.4)
	Israel	90.4	(4.6)	85.8	(3.0)	-4.6	(4.4)	13	(13.0)	0.2	(0.4)	5	(7.5)	23.3	(2.4)
	Italy	32.0	(16.5)	28.2	(3.7)	-3.8	(17.0)	-8	(12.3)	0.1	(0.6)	-7	(7.3)	24.6	(2.6)
	Japan	m	m	8.1	(2.1)	m	m	5	(12.8)	0.0	(0.2)	12	(10.6)	28.2	(2.4)
	Korea	80.2	(10.3)	83.9	(2.9)	3.8	(10.8)	10	(9.5)	0.1	(0.3)	1	(9.6)	17.9	(2.1)
	Latvia Luxembourg	65.4 40.9	(2.5)	56.5 52.9	(7.3)	-8.8 12.0	(7.2)	-8 28	(4.7) (1.9)	0.2 1.9	(0.3)	-3 3	(3.5)	12.5 34.5	(1.5)
	Mexico	88.1	(4.0)	96.1	(1.5)	8.0	(4.1)	20	(11.1)	0.5	(0.6)	4	(5.4)	17.3	(2.0)
	Netherlands	78.7	(3.8)	80.7	(6.2)	1.9	(6.1)	10	(18.3)	0.2	(0.7)	5	(11.0)	38.3	(4.6)
	New Zealand	93.2	(2.2)	94.4	(1.4)	1.2	(1.8)	8	(11.5)	0.0	(0.1)	11	(9.8)	19.8	(2.0)
	Norway	85.4	(2.4)	m	m	m	m	-6	(8.1)	0.1	(0.2)	-7	(7.5)	9.1	(0.9)
	Poland	80.7	(3.2)	m	m	m	m	0	(9.4)	0.0	(0.2)	-1	(5.8)	15.4	(1.6)
	Portugal	92.3	(2.7)	92.8	(2.0)	0.5	(2.5)	17	(13.3)	0.2	(0.4)	17 2	(8.8)	20.0	(2.0)
	Slovak Republic Slovenia	77.6 61.4	(3.5)	75.6 50.3	(4.3)	-2.0 -11.1	(5.3) (8.2)	-1 -30	(8.6)	0.0 2.5	(0.1)	-10	(4.4)	30.2 35.8	(2.3)
	Spain	80.8	(2.9)	m	(0.1) m	m	(0.2) m	-4	(6.3)	0.0	(0.1)	-7	(4.2)	14.5	(1.2)
	Sweden	85.4	(2.4)	89.1	(11.7)	3.7	(11.9)	19	(6.5)	0.5	(0.3)	3	(6.0)	16.3	(1.7)
	Switzerland	40.2	(4.3)	58.4	(7.5)	18.3	(9.0)	6	(8.4)	0.1	(0.3)	9	(6.3)	24.9	(2.0)
	Turkey	99.7	(0.3)	98.8	(0.7)	-0.9	(0.8)	С	С	0.1	(0.2)	С	С	26.3	(4.1)
	United Kingdom	97.1	(2.6)	88.8	(2.5)	-8.3	(3.7)	-20	(10.6)	0.4	(0.5)	7	(6.0)	19.6	(1.8)
	United States OECD average	99.1 71.6	(0.9)	98.6 72.4	(1.2)	-0.6	(0.4)	C 1	(1.6)	0.2	(0.3)	c 2	(1.1)	14.3	(1.6)
								'							
Partners	Albania	83.4 54.4	(3.8) (4.5)	86.3 72.3	(3.3) (8.3)	2.9 17.9	(5.0) (9.3)	m 14	m (6.4)	0.9	m (0.8)	m 11	m (5.5)	10.4	(3.0)
ŧ.	Algeria Brazil	90.7	(2.1)	86.5	(1.9)	-4.1	(2.5)	2	(8.7)	0.0	(0.1)	-2	(5.9)	21.3	(2.1)
Ра	B-S-J-G (China)	49.4	(5.2)	57.0	(6.0)	7.6	(7.3)	24	(12.7)	1.3	(1.4)	14	(6.9)	35.1	(2.9)
	Bulgaria	93.6	(4.4)	89.4	(2.5)	-4.1	(5.0)	19	(15.5)	0.3	(0.6)	10	(10.7)	39.4	(2.8)
	CABA (Argentina)	61.3	(6.8)	54.7	(19.0)	-6.6	(18.6)	-64	(11.9)	13.0	(4.8)	-16	(9.8)	33.0	(3.8)
	Colombia	76.2	(3.9)	78.1	(3.3)	1.9	(2.1)	4	(8.4)	0.0	(0.2)	0	(4.9)	20.1	(2.6)
	Costa Rica	96.7	(1.4)	97.4 80.9	(1.4)	0.7	(1.0)	-5	(19.4)	0.3	(0.5)	14	(12.8)	22.6 26.3	(2.1)
	Croatia Cyprus*	83.6	(1.0)	81.4	(0.1)	-2.2	(1.1)	-5 -5	(11.7)	0.0	(0.3)	-13 8	(7.1)	17.2	(2.0)
	Dominican Republic	92.6	(4.1)	89.8	(2.7)	-2.8	(4.9)	0	(12.1)	0.0	(0.1)	-1	(8.6)	26.6	(3.2)
	FYROM	m	m	92.0	(0.1)	m	m	6	(4.2)	0.0	(0.1)	-4	(4.3)	14.6	(1.2)
	Georgia	37.4	(3.5)	37.3	(3.5)	-0.1	(2.6)	-17	(6.8)	0.8	(0.7)	-13	(4.3)	15.9	(1.7)
	Hong Kong (China)	81.7	(3.8)	80.2	(3.8)	-1.5	(2.1)	-3	(11.1)	0.0	(0.3)	-5	(8.8)	12.7	(1.9)
	Indonesia Jordan	94.1	(2.8)	94.2 m	(2.6) m	0.1	(3.9)	11 -1	(21.4) (12.7)	0.2	(0.7)	2 6	(10.7) (11.1)	23.6 12.4	(3.1)
	Kosovo	81.5	(1.7)	86.1	(0.4)	4.6	(3.7)	4	(3.4)	0.0	(0.2)	2	(4.0)	14.2	(1.5)
	Lebanon	65.9	(5.4)	76.6	(3.9)	10.7	(6.9)	13	(10.5)	0.4	(0.6)	7	(9.2)	18.9	(3.3)
	Lithuania	71.4	(2.8)	m	m	m	m	-15	(7.5)	0.6	(0.5)	-6	(4.9)	21.4	(2.3)
	Macao (China)	36.6	(0.2)	42.7	(0.1)	6.1	(0.2)	5	(2.4)	0.1	(0.1)	-7	(2.6)	2.8	(0.5)
	Malta	m	m (1.0)	67.5	(0.1)	m	m (F.1)	-4	(3.7)	0.0	(0.1)	8	(3.5)	24.8	(1.1)
	Moldova Montenegro	88.9 95.4	(1.9) (4.7)	94.0 88.9	(5.1)	5.0 -6.6	(5.1) (4.7)	10 28	(6.8)	0.1	(0.2)	2 5	(5.8) (3.6)	14.1 17.1	(1.7)
	Peru	53.5	(4.7)	63.5	(3.6)	10.0	(3.3)	16	(6.6)	1.0	(0.3)	3	(3.8)	29.7	(2.3)
	Qatar	95.4	(0.1)	95.0	(0.0)	-0.3	(0.1)	-44	(3.9)	0.9	(0.2)	-28	(3.8)	14.4	(0.6)
	Romania	77.7	(3.4)	m	m	m	m	11	(9.5)	0.3	(0.6)	6	(7.2)	23.5	(2.9)
	Russia	100.0	C	100.0	C	0.0	C	m	m	0.0	C	m	m	9.7	(1.8)
	Singapore Chinasa Tainai	97.4	(1.6)	97.8	(0.5)	0.4	(1.6)	21	(10.9)	0.1	(0.1)	23	(15.1)	26.2	(1.7)
	Chinese Taipei Thailand	61.9 97.6	(4.2)	52.9 97.4	(4.2)	-9.0 -0.3	(5.7) (1.1)	5 16	(8.4)	0.1	(0.3)	3 28	(5.4) (14.5)	28.5 18.5	(2.5)
	Trinidad and Tobago	87.2	(0.4)	92.5	(0.2)	5.3	(0.5)	44	(5.3)	2.0	(0.4)	19	(5.1)	36.1	(1.1)
	Tunisia	82.5	(5.3)	89.4	(3.1)	6.8	(6.1)	-3	(16.2)	0.0	(0.6)	-9	(9.0)	18.7	(3.9)
	United Arab Emirates	96.3	(0.8)	95.9	(1.1)	-0.4	(1.0)	-35	(10.6)	0.5	(0.3)	-11	(12.3)	15.4	(2.0)
	Uruguay	90.6	(2.6)	76.9	(3.1)	-13.7	(3.4)	-29	(8.6)	1.6	(0.9)	-7	(5.0)	26.4	(1.8)
	Viet Nam	72.4	(13.2)	83.6	(2.7)	11.2	(13.1)	6	(9.5)	0.1	(0.3)	7	(6.7)	19.7	(4.3)
	Argentina**	78.3	(3.5)	82.6	(3.4)	4.3	(3.0)	-9	(8.5)	0.2	(0.3)	-2	(4.9)	19.2	(2.2)
	Kazakhstan**	97.3	(1.0)	94.5	(2.0)	-2.7	(1.3)	47	(9.4)	1.1	(0.6)	32	(9.1)	9.2	(2.3)
	Malaysia**	95.0	(3.3)	94.5	(1.8)	-0.5	(2.8)	-10	(10.5)	0.1	(0.2)	-6	(8.4)	18.2	(2.4)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

** See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/1]

Table II.4.39 Monitoring teaching practices

		reiceiliage oi	students in school	s that use the foli		nomitor the practi		
		ssessments achievement	Teacher p	eer review		ns of classes or senior staff	by inspectors of	on of classes or other person o the school
	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Australia Austria Belgium	86.0	(1.5)	93.4	(1.0)	91.1	(1.2)	19.9	(1.6)
Austria	85.7	(2.2)	77.4	(2.9)	93.6	(1.5)	55.0	(3.2)
	78.2	(2.3)	73.6	(2.9)	89.9	(2.2)	76.4	(2.6)
Canada	75.2	(2.4)	54.6	(2.7)	95.1	(1.2)	24.6	(2.1)
Chile	76.4	(3.6)	69.1	(3.7)	91.5	(2.4)	27.7	(3.4)
Czech Republic	93.2	(1.4)	69.6	(3.2)	100.0	C (2.2)	47.5	(2.8)
Denmark	87.9	(2.4)	52.3	(3.5)	87.3	(2.3)	24.8	(2.5)
Estonia Finland	76.3 43.8	(2.2)	59.5 13.8	(2.3)	96.0 41.8	(1.0)	28.8 4.8	(2.3)
France	61.1	(3.6)	50.8	(3.6)	48.7	(3.2)	98.7	(0.8)
Germany	80.0	(3.1)	44.7	(3.7)	88.3	(2.7)	31.6	(3.3)
Greece	56.7	(3.7)	43.7	(3.6)	13.8	(2.8)	28.1	(3.1)
Hungary	79.3	(3.1)	78.7	(3.3)	97.1	(1.0)	49.9	(3.5)
Iceland	76.2	(0.3)	10.3	(0.2)	71.7	(0.3)	26.0	(0.2)
Ireland	80.7	(3.2)	46.4	(4.0)	47.8	(3.9)	75.8	(3.5)
Israel	96.6	(1.4)	62.2	(3.7)	89.9	(2.4)	41.6	(3.6)
Italy	75.2	(3.2)	90.0	(2.1)	25.7	(3.5)	4.8	(1.9)
Japan	61.8	(3.3)	54.6	(3.5)	89.4	(2.6)	40.5	(3.2)
Korea	95.1	(1.7)	96.4	(1.2)	97.0	(1.4)	84.1	(2.7)
Latvia	96.8	(1.0)	88.4	(1.7)	99.0	(0.5)	46.1	(2.6)
Luxembourg	63.1	(0.1)	34.5	(0.1)	77.2	(0.1)	33.2	(0.1)
Mexico	94.9	(1.5)	86.3	(2.4)	81.1	(2.3)	46.4	(2.9)
Netherlands	96.7	(2.2)	79.7	(3.9)	99.1	(0.8)	63.5	(5.0)
New Zealand	90.9	(2.4)	96.5	(1.8)	98.0	(0.1)	45.4	(4.1)
Norway	82.5	(2.9)	80.1	(2.8)	74.5	(3.1)	31.4	(3.4)
Poland	99.4	(0.6)	63.1	(4.0)	99.4	(0.7)	26.0	(3.4)
Portugal	86.2	(3.1)	77.4	(3.3)	41.1	(3.5)	31.1	(3.7)
Slovak Republic	81.3	(2.5)	88.4	(1.9)	98.9	(0.6)	25.4	(2.7)
Slovenia	78.9	(0.5)	77.7	(0.5)	96.5	(0.1)	16.4	(0.5)
Spain	70.8	(3.3)	27.5	(3.2)	31.7	(2.9)	38.9	(3.2)
Sweden Switzerland	73.3 58.9	(3.5)	74.3 66.7	(3.4) (4.1)	94.6 94.7	(1.9) (1.4)	32.8 45.5	(2.9)
Turkey	92.2	(2.2)	55.6	(4.4)	94.5	(2.2)	41.5	(3.8)
United Kingdom	97.1	(0.6)	95.4	(1.6)	99.8	(0.1)	77.5	(3.2)
United States	94.6	(1.8)	72.2	(3.7)	100.0	(O.1)	64.0	(4.1)
OECD average	80.7	(0.4)	65.9	(0.5)	81.0	(0.4)	41.6	(0.5)
Albania Algeria Brazil	99.7	(0.3)	94.0	(1.9)	99.1	(0.2)	53.2	(3.8)
Algeria	93.9	(2.2)	65.0	(4.1)	95.8	(1.6)	90.7	(2.6)
Brazil	89.7	(1.5)	81.1	(2.2)	64.9	(2.3)	28.4	(2.4)
B-S-J-G (China)	97.2	(1.2)	92.5	(2.7)	99.3	(0.6)	90.9	(2.9)
Bulgaria	96.5	(1.5)	36.5	(3.6)	100.0	C (1.4)	92.0	(2.1)
CABA (Argentina)	81.6	(5.3)	74.6	(6.5)	98.1	(1.4)	45.7	(7.1)
Colombia	89.0	(2.1)	64.6	(3.0)	59.2	(3.6)	20.8	(2.9)
Costa Rica Croatia	94.6	(1.7)	93.1	(1.9)	91.2	(1.9)	65.3	(3.6)
	75.7	(3.4)	74.3	(3.8)		C (0.0)	73.8	(3.7)
Cyprus* Dominican Republic	92.4 89.8	(0.0)	60.2 90.1	(0.1)	97.9 99.9	(0.0)	86.9 94.6	(0.1)
FYROM	86.3	(2.4)	76.3	(2.4)	100.0	(U.1) C	94.6	(0.0)
Georgia	94.2	(1.7)	94.5	(1.5)	96.6	(1.2)	17.9	(2.7)
Hong Kong (China)	97.9	(1.6)	93.0	(2.3)	99.4	(0.6)	52.8	(4.4)
Indonesia	87.7	(2.3)	88.8	(2.4)	97.1	(1.1)	85.4	(3.1)
Jordan	96.7	(1.2)	94.1	(1.5)	99.4	(0.6)	98.5	(0.9)
Kosovo	87.1	(0.8)	90.2	(1.0)	98.3	(0.5)	68.3	(1.3)
Lebanon	86.0	(2.4)	73.1	(3.5)	93.4	(1.6)	76.8	(2.8)
Lithuania	96.9	(0.9)	88.0	(2.0)	99.5	(0.4)	54.8	(3.0)
Macao (China)	93.5	(0.0)	100.0	C	97.8	(0.0)	56.1	(0.1)
Malta	79.7	(0.1)	45.0	(0.1)	94.1	(0.1)	64.8	(0.1)
Moldova	100.0	(0.0)	94.7	(1.5)	99.3	(0.5)	93.5	(1.7)
Montenegro	68.8	(0.2)	90.6	(0.4)	100.0	С	60.7	(0.5)
Peru	78.5	(2.5)	90.4	(2.2)	92.1	(1.8)	63.2	(3.0)
Qatar	99.6	(0.0)	95.2	(0.0)	98.4	(0.0)	88.3	(0.1)
Romania	96.6	(1.4)	86.9	(2.6)	99.3	(0.7)	90.3	(2.2)
Russia	99.6	(0.3)	99.6	(0.3)	100.0	С	68.8	(3.7)
Singapore	100.0	(0.0)	92.6	(0.7)	100.0	C (2.0)	42.2	(1.0)
Chinese Taipei	81.7	(2.7)	70.3	(3.5)	82.1	(2.8)	34.0	(3.4)
Thailand	100.0	C (2.2)	99.1	(0.5)	99.5	(0.4)	61.2	(3.9)
Trinidad and Tobago	92.4	(0.2)	77.4	(0.2)	96.3	(0.1)	52.2	(0.3)
Tunisia	81.4	(3.7)	62.5	(4.4)	70.7	(4.2)	95.0	(1.9)
United Arab Emirates	97.5	(0.9)	90.2	(1.3)	100.0	C (1.0)	92.9	(1.9)
Uruguay	69.9	(2.7)	76.0	(2.8)	91.1	(1.8)	81.4	(2.1)
Viet Nam	99.1	(0.6)	93.9	(1.5)	99.5	(0.5)	78.2	(3.3)
Argentina**	92.8	(1.7)	74.1	(3.1)	94.7	(1.1)	33.8	(3.4)
Kazakhstan**	97.8	(1.0)	98.9	(0.6)	100.0	С	81.8	(2.8)
Malaysia**	98.8	(0.9)	89.8	(2.4)	99.4	(0.6)	89.5	(2.3)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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Table II.4.44 National/central assessments at the lower and upper secondary levels (2015)

General programmes

		Existen	ce
	Source	Lower secondary	Upper secondary
Australia	a	Yes	No
Austria	a	Yes	No
Belgium (Fl.)	a	Yes	Yes
Belgium (Fr.)	a	Yes	Yes
Canada	a	Yes	No
Chile	a	Yes	Yes
Czech Republic	a	Yes	Yes
Denmark	a	Yes	No
England (UK)	a	No	No
Estonia	a	No	No
Finland	a	Yes	No
France	a	Yes	No
Germany ¹	a	Yes	No
Greece	a	No	No
Hungary	a	Yes	Yes
Iceland	a	Yes	No
Ireland	a	No	No
Israel	a	Yes	No
Italy	a	Yes	Yes
Japan	a	Yes	No
Korea	a	Yes	Yes
Latvia	Ь	Yes	No
Luxembourg	a	Yes	No
Mexico	a	Yes	Yes
Netherlands	a	No	No
New Zealand	a	Yes	Yes
Norway	a	Yes	Yes
Poland	a	No	No
Portugal	a	No	No
Scotland (UK)	a	No	No
Slovak Republic	a	Yes	No
Slovenia	a	Yes	No
Spain	a	Yes	No
Sweden		Yes	Yes
	a	No No	No
Switzerland	a		
Turkey United States	a a	No Yes	No Yes
	•		
Albania	b	m	m
Algeria	Ь	m	m
Argentina	b	Yes	Yes
Brazil	a	Yes	Yes
B-S-J-G (China)	b	m	m
Bulgaria	b	Yes	No
Colombia	a	Yes	No
Costa Rica	Ь	Yes	No
Croatia	b	No	Yes
Cyprus*	Ь	No	Yes
Dominican Republic	b	No	No
FYROM .	Ь	Yes	Yes
Georgia	Ь	No	Yes
Hong Kong (China)	b	Yes	No
Indonesia	Ь	m	m
Jordan	b	m	m
Kazakhstan	b	Yes	Yes
Kosovo	b	m	m
Lebanon	b	m	m
Lithuania	b	m	m
Macao (China)	b	No	No
Malaysia	b	m	m
Malta	b	Yes	Yes
Moldova	b	m	m
Montenegro	b	Yes	No
Peru	b	Yes	No
	b b	Yes	Yes
Qatar Romania			
	b	m	m
Russia	a	m	m
Singapore	Ь	No	No
Chinese Taipei	b	No	No
Thailand	b	Yes	No
Trinidad and Tobago	b	m	m
Tunisia	Ь	m	m
	Ь	Yes	Yes
United Arab Emirates	D	ies	163
United Arab Emirates Uruguay	b b	No	No

^{1.} Refers to National Assessment Study (*Ländervergleich*). State-wide comparison tests (VERA: *Vergleichsarbeit*) also exist.

Note: Federal states or countries with highly decentralised school systems may have different regulations in states, provinces or regions.

* See note at the beginning of this Annex.

Sources: a. *Education at a Glance 2015: OECD Indicators* (OECD, 2015).

b. PISA system-level data collection in 2016.

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Table II.4.45 National/central examinations at the lower secondary level (2015)

General programmes

											L.,		Main	purpo	oses or	uses			ŀ	low r	esults	are s	hared	ı
		Source	Existence	Compulsory for students (public schools)1	Compulsory for students (government-dependent private schools) ¹	Percentage of students taking them (public schools) 1	Percentage of students taking them (government-dependent private schools) ¹	Level of government at which they are standardised	Authority responsible for developing the exam	Authority responsible for marking/grading the exam	Student certification/graduation/grade completion	Student promotion/entry to higher grade	Student entry to upper secondary education	Student access to selective upper secondary schools	Student selection for programme/course/ tracks at the upper secondary level	Student expulsion from school	Decisions about scholarships/financial assistance for students	Other	Shared with external audience in addition to education authorities	Shared directly with school administrators	Shared directly with classroom teachers	Shared directly with parents	Shared directly with students	Shared directly with media
			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22
á	Australia	а	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
OFC	Austria	а	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
1	Belgium (Fl.)	а	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
	Belgium (Fr.)	а	Yes	Yes	Yes	1	1	3	3	15	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yε
	Canada	а	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	а
	Chile	а	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	а
	Czech Republic	а	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
	Denmark	а	Yes	Yes	No	1	2	1	1	1	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Ye
	England (UK)	а	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
	Estonia ² Finland	а	Yes	Yes	Yes	1	1	1	2	8	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Ye
	France ²	a	No Yes	Yes	a No	a 1	a m	a 1	a 1	a 1 0 0 11	a Voc	a No	a No	a	a	a No	a Yes	a No	Yes	a Yes	a Yes	a Yes	a Yes	a Ye
		a	Yes	Yes	Yes	1	m 1	3	3	1, 8, 9, 11 8, 9, 10, 11	Yes	Yes	Yes	No	a No	No Yes		No				Yes		
	Germany Greece	a	No								Yes			No	No		No	m	Yes	Yes	Yes	a	Yes	No a
	Hungary	a	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	-	a	
	Iceland	a	No	a	a a	a	a	a	a a	a a	a	a a	a	a	a	a a	a a	a a	a	a	a	a	a	a
	Ireland ²	a	Yes	Yes	a	1	a	1	2	2	Yes	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Ye
	Israel	a	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
	Italy	a	Yes	Yes	a	1	a	1	2, 15	8	Yes	Yes	Yes	No	No	No	No	No	Yes	No	Yes	Yes	Yes	Ye
	Japan	a	No	a	a	a	a	a	2, 13 a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
	Korea	a	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
	Latvia	a	Yes	Yes	Yes	1	1	1	2	9, 10	Yes	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Ye
	Luxembourg	a	No	a	a	a	a	a	a	a a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
	Mexico	a	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
	Netherlands	a	Yes	Yes	Yes	1	1	1	1	14	Yes	No	Yes	No	No	No	No	No	Yes	Yes	Yes	No	Yes	Ye
	New Zealand	a	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
	Norway	a	Yes	Yes	No	1	2	1	1	1	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Ye
	Poland	a	Yes	Yes	Yes	1	2	1	1, 5	1, 5	Yes	No	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Ye
	Portugal	a	Yes	Yes	Yes	1	1	1	2	1, 2	Yes	Yes	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Ye
	Scotland (UK)	а	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
	Slovak Republic	а	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
	Slovenia	а	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
	Spain	а	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	а
	Sweden	а	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	а
	Switzerland	а	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
	Turkey	а	Yes	Yes	a	1	a	1	1	1	Yes	No	No	Yes	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Ye
	United States	а	Yes	Yes	a	1	a	3	3	3	Yes	Yes	No	m	Yes	No	No	m	Yes	Yes	Yes	Yes	Yes	Υe

${\bf Locus\ of\ authority\ for\ standard ising/developing/marking/grading\ examinations}\ ({\bf Column\ 6-8})$

- (Column 6-8)

 1: Central authority or government

 2: Central agency responsible for assessment or certification

 3: State education authorities or governments

 4: State agency responsible for assessment or certification

 5: Provincial/regional education authorities or governments

 6: Subregional or intermunicipal authority or government

 7: Local authority or government

 8: School, school board or committee

 9: The student's own teacher

 10: Another teacher from within the school

- 10: Another teacher from within the school 11: A teacher from another school
- 12: Subject/discipline association13: Private company
- 14: Depends on the subject 15: Other

- Percentage of schools administering examinations/students taking them (columns $4,\,5$) (Columns 4, 5)
 1: All schools
 2: Between 76% and 99% of schools
 3: Between 51% and 75% of schools
 4: Between 26% and 50% of schools
 5: Between 11% and 25% of schools

- 6: 10% or less of schools
- 1. Data reported for OECD countries, Brazil and Colombia refer to whether it is compulsory for all schools to administer the examinations (columns 2, 3) and the percentage of schools that administer them (columns 4, 5).

 2. Shared upon request only: Estonia (column 20), France (column 19), Ireland (columns 19, 20).

- 3. Reference year 2013/2014.
 4. Reference year 2015/16.
 5. Reference year 2014.
 6. Columns 4 and 5: All students in the grade levels at which the exams are administered.

Note: Federal states or countries with highly decentralised school systems may have different regulations in states, provinces or regions.

* See note at the beginning of this Annex.

* Sources: a. Education at a Glance 2015: OECD Indicator (OECD, 2015).

b. PISA system-level data collection in 2016.

* StatLink ** 15 ** http://dx.doi.org/10.1787/888933436498



[Part 2/2]

Table II.4.45 National/central examinations at the lower secondary level (2015)

General programmes

												Main	purpo	ses or	uses			H	ow re	sults	are s	hare	d
	Source	Existence	Compulsory for students (public schools)1	Compulsory for students (government-dependent private schools) ¹	Percentage of students taking them (public schools) ¹	Percentage of students taking them (government-dependent private schools) ¹	Level of government at which they are standardised	Authority responsible for developing the exam	Authority responsible for marking/grading the exam	Student certification/graduation/grade completion	Student promotion/entry to higher grade	Student entry to upper secondary education	Student access to selective upper secondary schools	Student selection for programme/course/ tracks at the upper secondary level	Student expulsion from school	Decisions about scholarships/financial assistance for students	Other	Shared with external audience in addition to education authorities	Shared directly with school administrators	Shared directly with classroom teachers	Shared directly with parents	Shared directly with students	Shared directly with media
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22
Albania	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
Algeria	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
Argentina	b	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
Brazil	a	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
B-S-J-G (China) Bulgaria	b	m Yes	m Yes	m Yes	m 1	m 1	m 1	m 1	m 1	m No	m	m	m	m	m NI-	m	m	m NI-	m	m	m	m	m
Colombia						-					Yes	Yes	Yes	Yes	No	No	No	No	a	a	a	a	a
Costa Rica	a	No No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
Croatia	b		a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
Cyprus*3		No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
Dominican Republic ⁴	b	No Yes	Yes	a Yes	a	a	a	a 1	a	a V	a	a	a	a	a	a	a	a	a	a	a V	a	Yes
FYROM	b	No	No		1	1	1		1	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	
	b			a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
Georgia Hong Kong (China) ⁴		No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
	b	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
Indonesia Jordan	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
Kazakhstan	b	m Voc	m Yes	m Yes	m	m 1	m	m	m	m Voc	m Voc	m Voc	m Voc	m No	m No	m No	m No	m No	m	m	m	m	m
		Yes			1		1	1, 2, 7, 13, 15		Yes	Yes	Yes	Yes	No	No	No	No	No	a	a	a	a	a
Kosovo	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
Lebanon Lithuania	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
Macao (China)		m No	m	m	m	m	m	m	m a	m	m	m	m	m	m	m	m	m	m	m	m	m	m
Malaysia	b	No m	a m	a m	a m	a	a	a	m m	a	a m	a	a	a	a m	a	a m	a	a	a	a m	a	a m
Malta	b	No				m	m	m		m		m	m	m		m		m	m	m		m	a
Moldova	b	m	a m	a m	a m	a m	a m	a m	a m	a m	a m	a	a m	a	a m	a m	a m	a m	a	a m	a m	a m	m
Montenegro	b	Yes	Yes	Yes	m 1	m 1	m 1	m 2		Yes	Yes	m Yes	Yes	m Yes	No	No		Yes	m Yes	Yes	Yes	Yes	No
Peru									10, 11								a						
Qatar	b	No Yes	Yes	a	a 1	a	a 1	a 1	a 1	Yes	a No	Yes	a No	a No	a No	a No	a No	Yes	Yes	a No	a No	a No.	a No
Romania	b	m	m	a m	m	a m	m	m	m	m	No m	m	No m	No m	m	m	m	m	m	m	m	No m	m
Russia	a	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
Singapore ⁵	b	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
Chinese Taipei	b	Yes	No	a	2	a	d 1	а 1	1	No	No	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No	Yes	No
Thailand ⁶	b	Yes	Yes	Yes	1	1	1	1, 2	1, 2	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes	No	No	Yes	No
Trinidad and Tobago	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
Tunisia	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
United Arab Emirates	b	Yes	Yes	Yes	1	1	1	1	1	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	a	a	a	a	a
Uruguay	b	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
Viet Nam	b	m	m	m	m	m	m	m	m	m	m	a	m	а	m	m	m	m	m	m	m	m	m

Locus of authority for standardising/developing/marking/grading examinations

(Column 6-8)

- Column 6-8)

 1: Central authority or government
 2: Central agency responsible for assessment or certification
 3: State education authorities or governments
 4: State agency responsible for assessment or certification
 5: Provincial/regional education authorities or government
 6: Subregional or intermunicipal authority or government
 7: Local authority or government
 8: School, school board or committee
 9: The student's own teacher
 10: Another teacher from within the school
 11: A teacher from another school
 11: A teacher from another school
 12: Subject/discipline association

- 12: Subject/discipline association 13: Private company 14: Depends on the subject 15: Other

Percentage of schools administering examinations/students taking them $({\rm columns}\ 4,\ 5)$

- 1: All schools
 2: Between 76% and 99% of schools
- 3: Between 51% and 75% of schools 4: Between 26% and 50% of schools 5: Between 11% and 25% of schools
- 6: 10% or less of schools
- 1. Data reported for OECD countries, Brazil and Colombia refer to whether it is compulsory for all schools to administer the examinations (columns 2, 3) and the percentage of schools that administer them (columns 4, 5).

 2. Shared upon request only: Estonia (column 20), France (column 19), Ireland (columns 19, 20).

 3. Reference year 2013/2014.

 4. Reference year 2015/16.

 5. Reference year 2015/16.

 6. Columns 4 and 5: All students in the grade levels at which the exams are administered.

 Note: Federal states or countries with highly decentralised school systems may have different regulations in states, provinces or regions.

 * See note at the beginning of this Annex.

 Sources: a. Education at a Glance 2015: OECD Indicator (OECD, 2015).

 b. PISA system-level data collection in 2016.

 StatLink **Instantian** http://dx.doi.org/10.1787/888933436498



Table II.4.46 National/central examinations at the upper secondary level (2015)

General programmes

													Main	purpo	ses or	uses			ŀ	low r	esults	are s	hared	d
		Source	Existence	Compulsory for students (public schools)1	Compulsory for students (government-dependent private schools)1	Percentage of students taking them (public schools) ¹	Percentage of students taking them (government-dependent private schools) ¹	Level of government at which they are standardised	Authority responsible for developing the exam	Authority responsible for marking/grading the exam	Student certification/graduation/grade completion	Student promotion/entry to higher grade	Student entry to tertiary education	Student access to selective tertiary institution	Student selection for programme/faculty/discipline at the tertiary level	Student expulsion from school	Decisions about scholarships/financial assistance for students	Other	Shared with external audience in addition to education authorities	Shared directly with school administrators	Shared directly with classroom teachers	Shared directly with parents	Shared directly with students	Shared directly with media
	A		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
91	Australia	а	Yes	m	m	m	m	3	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
OFCD	Austria	a	Yes	Yes	Yes	1	1	1	2	9,15	Yes	No	Yes	No	No	No	No	No	Yes	Yes	Yes	No	Yes	No
•	Belgium (Fl.) Belgium (Fr.)	a	No Yes	a	a Voc	a 1	a 1	a 3	a 3	a 15	a Voc	a Voc	a	a	a	a No	a	a	a Voc	a Yes	a Yes	a Voc	a Voc	a Vos
	Canada	a	No	Yes	Yes			a	a		Yes	Yes	Yes	No a	No a		No a	No	Yes		a	Yes	Yes	Yes
	Chile	a	Yes	a No	No	a m	a m	1	15	a 15	a No	a No	a Yes	Yes	No	a No	No	a No	a Yes	Yes	Yes	a Yes	Yes	a Yes
	Czech Republic ²	a	Yes	Yes	Yes	1	1	1	2	2,8	Yes	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Denmark	a	Yes	Yes	Yes	1	1	1	1	1	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
	England (UK)	a	Yes	No	No	1	1	1	1, 2, 13	2, 13	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
	Estonia	a	Yes	Yes	Yes	1	1	1	2	2	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Finland	a	Yes	Yes	Yes	1	1	1	2	2, 9	Yes	No	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
	France ²	a	Yes	Yes	No	1	m	1	1	1, 11	Yes	Yes	Yes	No	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
	Germany	a	Yes	Yes	Yes	1	1	3	3	8, 9, 10, 11	Yes	Yes	Yes	No	Yes	Yes	No	m	Yes	Yes	Yes	Yes	Yes	No
	Greece	а	Yes	Yes	a	1	a	-1	1	15	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No	No	Yes	No
	Hungary	а	Yes	Yes	Yes	1	1	1	1	1	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
	Iceland	а	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
	Ireland ²	а	Yes	Yes	a	1	a	1	2	2	Yes	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
	Israel ²	а	Yes	No	No	2	m	1	1	1, 11	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	No	No	Yes	Yes
	Italy	а	Yes	Yes	a	1	a	1	1, 15	8, 11	Yes	Yes	Yes	No	No	No	No	No	Yes	No	Yes	Yes	Yes	Yes
	Japan	а	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
	Korea	а	Yes	No	No	2	2	1	1, 2	1, 2	No	No	Yes	Yes	No	No	No	No	Yes	No	No	Yes	Yes	Yes
	Latvia	а	Yes	Yes	Yes	1	1	1	2	2	Yes	Yes	No	No	No	No	No	No	Yes	Yes	No	No	Yes	Yes
	Luxembourg	а	Yes	Yes	Yes	1	1	1	1	9, 10	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes	Yes	No	Yes	No
	Mexico	а	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
	Netherlands	а	Yes	Yes	Yes	1	1	1	1	14	Yes	No	Yes	No	No	No	No	No	Yes	Yes	Yes	No	Yes	Yes
	New Zealand ²	а	Yes	No	a	2	a	1	2	2, 8, 9, 10	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
	Norway	а	Yes	Yes	No	1	2	1	1	1	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
	Poland	а	Yes	Yes	Yes	2	2	1	1, 5	1, 5	No	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Portugal	а	Yes	Yes	Yes	1	1	1	2	1, 2	Yes	Yes	Yes	Yes	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
	Scotland (UK)	a	Yes	No	a V	1	a	1	2	2, 8	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
	Slovak Republic ²	a	Yes	Yes	Yes	1	1	1	1, 2	1, 8	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes
	Slovenia	a	Yes	Yes	Yes	1	1	1	2	2	Yes	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	No	Yes	Yes
	Spain	a	Yes	Yes	Yes	1	1	3		15	No	No	Yes	Yes	No	No	No	No	Yes	Yes	No	No	Yes	Yes
	Sweden	a	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a
	Switzerland	a	No	a	a	a	a	a	a	a	a	a No	a Voc	a Voc	a Voc	a	a Voc	a	a Voc	a Voc	a Voc	a Voc	a	a Voc
	Turkey United States	а	Yes Yes	No Yes	a	2	a	3	2	2 3	No Yes	No Yes	Yes	Yes	Yes	No No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

Locus of authority for standardising/developing/marking/grading examinations

- (Column 6-8)

 1: Central authority or government
- 1: Central authority or government
 2: Central agency responsible for assessment or certification
 3: State education authorities or governments
 4: State agency responsible for assessment or certification
 5: Provincial/regional education authorities or governments
 6: Subregional or intermunicipal authority or government
 7: Local authority or government
 8: School, school board or committee
 9: The student's own teacher
 10: Another teacher from within the school
 11: A teacher from another school

- 10: Another teacher from within th
 11: A teacher from another school
 12: Subject/discipline association
 13: Private company
 14: Depends on the subject
 15: Other

Percentage of schools administering examinations/students taking them (columns 4, 5) 1: All schools

- 2: Between 76% and 99% of schools 3: Between 51% and 75% of schools 4: Between 26% and 50% of schools 5: Between 11% and 25% of schools
- 6: 10% or less of schools

StatLink http://dx.doi.org/10.1787/888933436498

^{1.} Data reported for OECD countries, Brazil and Colombia refer to whether it is compulsory for all schools to administer the examinations (columns 2, 3) and the percentage

^{1.} Data reported for OECD countries, Brazil and Colombia refer to whether it is compulsory for all schools to administer the examinations (columns 2, 3) and the percentage of schools that administer them (columns 4, 5).

2. Shared upon request only: Czech Republic (column 19), France (column 19), Ireland (columns 19, 20), Israel (column 21), New Zealand (column 20), Slovak Republic (columns 19, 20, 22).

3. Reference year 2013/2014.

4. Reference year 2015/16.

5. Reference year 2015/16.

5. Reference year 2014.

6. Columns 4 and 5: All students in the grade levels at which the exams are administered.

Note: Federal states or countries with highly decentralised school systems may have different regulations in states, provinces or regions.

* See note at the beginning of this Annex.

* Sources: a. Education at a Glance 2015: OECD Indicator (OECD, 2015).

b. PISA system-level data collection in 2016.

* StatLink ** Application** (Columns 2) (19, 1278/88893434649).



[Part 2/2]

Table II.4.46 National/central examinations at the upper secondary level (2015)

General programmes

													Main	purpo	ses or	uses			H	ow re	esults	are s	hare	:d
		Source	Existence	Compulsory for students (public schools)1	Compulsory for students (government-dependent private schools)1	Percentage of students taking them (public schools) ¹	Percentage of students taking them (government-dependent private schools) ¹	Level of government at which they are standardised	Authority responsible for developing the exam	Authority responsible for marking/grading the exam	Student certification/graduation/grade completion	Student promotion/entry to higher grade	Student entry to tertiary education	Student access to selective tertiary institution	Student selection for programme/faculty/discipline at the tertiary level	Student expulsion from school	Decisions about scholarships/financial assistance for students	Other	Shared with external audience in addition to education authorities	Shared directly with school administrators	Shared directly with classroom teachers	Shared directly with parents	Shared directly with students	O
		_	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(2
1	Albania	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	r
	Algeria	Ь	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	1
	Argentina	b	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	
	Brazil	a	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	
	B-S-J-G (China)	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	r
	Bulgaria	b	Yes	Yes	Yes	2	2	1	1	1	Yes	Yes	Yes	Yes	Yes	No	No	No	No	a	a	a	a	
	Colombia	a	Yes	Yes	Yes	1	1	1	2	2	No	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Υ
	Costa Rica	b	Yes	Yes	Yes	1	2	1	1	1	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes	Yes	No	Yes	Y
	Croatia	b	Yes	Yes	Yes	2	2	1	2	2	Yes	No	Yes	Yes	Yes	No	No	No	Yes	No	No	No	Yes	1
	Cyprus*3	b	Yes	Yes	No	1	m	1	1	1	Yes	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Y
	Dominican Republic⁴	b	Yes	Yes	Yes	1	1	1	1	1	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Y
	FYROM	b	Yes	Yes	a	1	a	1	4	4	Yes	No	Yes	Yes	Yes	No	Yes	a	Yes	Yes	Yes	Yes	Yes	Y
	Georgia	b	Yes	Yes	a	1	a	1	2	2	Yes	No	No	No	No	No	No	No	Yes	Yes	No	No	Yes	1
	Hong Kong (China) ⁴	b	Yes	Yes	Yes	1	1	1	2	2	Yes	a	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Υ
	Indonesia	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	1
	Jordan	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	
1	Kazakhstan	b	Yes	Yes	Yes	1	1	1	1, 2, 7, 13, 15	1, 2, 7, 9, 15	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes)
	Kosovo	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	
	Lebanon	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	
_1	Lithuania	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	
	Macao (China)	b	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	
	Malaysia	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	L
	Malta	b	Yes	No	No	2	2	1	2	2	Yes	Yes	Yes	No	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	1
	Moldova	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	
	Montenegro	b	Yes	Yes	Yes	1	1	1	2	2	Yes	Yes	Yes	Yes	Yes	No	Yes	a	Yes	Yes	Yes	Yes	Yes	1
J	Peru	b	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	
	Qatar	b	Yes	Yes	a	1	a	1	1	1	Yes	No	Yes	Yes	No	No	No	No	Yes	Yes	No	No	No	1
ı	Romania	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	
I	Russia	a	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	
	Singapore ⁵	b	Yes	No	a	2	a	1	2	2	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	Yes	,
	Chinese Taipei	b	Yes	No	a	2	a	1	1	1	No	No	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes	No	Yes	1
	Thailand ⁶	b	Yes	Yes	Yes	1	1	1	1, 2	1, 2	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes	No	No	Yes	1
	Trinidad and Tobago	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	
	Tunisia	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	L
ı	United Arab Emirates	b	Yes	Yes	Yes	1	1	1	1	1	Yes	Yes	Yes	Yes	Yes	No	Yes	No	No	a	a	a	a	
ı	Uruguay	b	No	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	a	
1	Viet Nam	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	

Locus of authority for standardising/developing/marking/grading examinations (Column 6-8) 1: Central authority or government

- Central authority of government
 Central agency responsible for assessment or certification
 State education authorities or governments
 State agency responsible for assessment or certification
 Provincial/regional education authorities or governments

- To vinitial regional education authorities of government
 Subregional or intermunicipal authority or government
 Local authority or government
 School, school board or committee
 The student's own teacher
 Another teacher from within the school

- 10: Another teacher from within th
 11: A teacher from another school
 12: Subject/discipline association
 13: Private company
 14: Depends on the subject
 15: Other

Percentage of schools administering examinations/students taking them (columns 4, 5)
1: All schools
2: Between 76% and 99% of schools
3: Between 51% and 75% of schools

- 4: Between 26% and 50% of schools 5: Between 11% and 25% of schools
- 6: 10% or less of schools

^{1.} Data reported for OECD countries, Brazil and Colombia refer to whether it is compulsory for all schools to administer the examinations (columns 2, 3) and the percentage

^{1.} Data reported for OECD countries, Brazil and Colombia refer to whether it is compulsory for all schools to administer the examinations (columns 2, 3) and the percentage of schools that administer them (columns 4, 5).

2. Shared upon request only: Czech Republic (column 19), France (column 19), Ireland (columns 19, 20), Israel (column 21), New Zealand (column 20), Slovak Republic (columns 19, 20, 22).

3. Reference year 2013/2014.

4. Reference year 2015/16.

5. Reference year 2015/16.

6. Columns 4 and 5: All students in the grade levels at which the exams are administered.

Note: Federal states or countries with highly decentralised school systems may have different regulations in states, provinces or regions.

* See note at the beginning of this Annex.

Sources: al Education at a Glance 2015: OECD Indicator (OECD, 2015).

b) PISA system-level data collection in 2016.

StatLink **Inst** http://dx.doi.org/10.1787/888933436498



[Part 1/2]

Table II.4.47 Teacher appraisal (2015)

By level of education

		_		Prin	nary						Lowers	econ	dary	(gen	eral)				Upper s	econ	dary	(gen	eral)		_
			Policy implementa or practio (if not legisla	ce	a	pprai	sal c	ache overe mew	d		Policy implementat or practic (if not legisla	e	a	pprai	of te sal co y frai	overe	d		Policy implementat or practic (if not legisla	e	a	Types pprai polic	sal c	over	ed
	Source	Existence of teacher appraisal	Breadth	Percentage of teachers appraised	Completion of probation	Regular appraisal	Teacher registration	Appraisal for promotion	Reward schemes	Existence of teacher appraisal	Breadth	Percentage of teachers appraised	Completion of probation	Regular appraisal	Teacher registration	Appraisal for promotion	Reward schemes	Existence of teacher appraisal	Breadth	Percentage of teachers appraised	Completion of probation	Regular appraisal	Teacher registration	Appraisal for promotion	۔ : ا
Australia	a	(1) L	(2)	(3)	(4) Yes	(5) Yes	(6) Yes	(7)	(8) No	(9) L	(10)	(11)	(12) Yes	(13) Yes	(14) Yes	(15)	(16) No	(17) L	(18)	(19)	(20) Yes	(21) Yes	(22) Yes	(23)	
Austria	a	L	Countrywide Countrywide	m m	No	Yes	Yes	m Yes	No	L	Countrywide Countrywide	m m	Yes	Yes	Yes	m Yes	No	L	Countrywide Countrywide	m m	Yes	Yes	Yes	m Yes	_
Belgium (Fl.)	a	L	Countrywide	m	No	Yes	No	No	No	L	Countrywide	m	No	Yes	No	No	No	L	Countrywide	m	No	Yes	No	No	
Belgium (Fr.)	a	L	Countrywide	5	No	Yes	No	No	No	L	Countrywide	5	No	Yes	No	No	No	L	Countrywide	5	No	Yes	No	No	
Canada	a	L	Some states	m	m	m	m	m	m	L	Some states	m	m	m	m	m	m	L	Some states	m	m	m	m	m	i
Chile	a	L	Countrywide	82.5	No	Yes	No	No	Yes	L	Countrywide	82.5	No	Yes	No	No	Yes	L		82.5	No	Yes	No	No	,
Czech Republic	a	L	Countrywide	100	Yes	Yes	No	Yes	No	L	Countrywide	100	Yes	Yes	No	Yes	No	L	Countrywide	100	Yes	Yes	No	Yes	-
Denmark	a	Р	Countrywide	95	a	a	a	a	a	Р	Countrywide	95	a	a	a	a	a	P	Countrywide	95	a	a	a	a	;
England (UK) ¹	a	L	Some schools	90	Yes	Yes	No	No	No	L	Some schools	90	Yes	Yes	No	No	No	L	Some schools	90	Yes	Yes	No	No	,
Estonia	a	Р	Countrywide	80	a	a	a	a	a	Р	Countrywide	80	a	a	a	a	a	P	Countrywide	80	a	a	a	a	T
Finland	a	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	i
France	a	1	Countrywide	100	Yes	Yes	No	No	No	L	Countrywide	100	Yes	Yes	No	No	No	1	Countrywide	100	Yes	Yes	No	No	
Germany	a	N	a	a	a	a	a	a	a	N	a	a	a	a	a	a	a	N	a	a	a	a	a	a	i
Greece	a	L	Countrywide	100	Yes	Yes	Yes	Yes	No	L	Countrywide	100	Yes	Yes	Yes	Yes	No	L	Countrywide	100	Yes	Yes	Yes	Yes	,
Hungary	a	L	Countrywide	15	Yes	Yes	No	Yes	Yes	L	Countrywide	15	Yes	Yes	No	Yes	Yes	L	Countrywide	15	Yes	Yes	No	Yes	
Iceland	a	N	a	a	a	a	a	a	a	N	a	a	a	a	a	a	a	N	a	a	a	a	a	a	T
Ireland	a	L	Countrywide	100	Yes	No	Yes	No	No	L	Countrywide	m	Yes	No	Yes	No	No	L	Countrywide	m	Yes	No	Yes	No	
Israel	a	L	Countrywide	22	Yes	No	Yes	Yes	No	L	Countrywide	25	Yes	No	Yes	Yes	No	L	Countrywide	30	Yes	No	Yes	Yes	
Italy	a	L	Countrywide	4	Yes	No	No	No	No	L	Countrywide	5	Yes	No	No	No	No	L	Countrywide	3.8	Yes	No	No	No	
Japan	a	L	Countrywide	m	No	Yes	No	No	No	L	Countrywide	m	No	Yes	No	No	No	L	Countrywide	m	No	Yes	No	No	-
Korea	a	L	Countrywide	m	No	Yes	No	Yes	Yes	L	Countrywide	m	No	Yes	No	Yes	Yes	L	Countrywide	m	No	Yes	No	Yes	-
Latvia	a	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	Ī
Luxembourg	а	N	a	a	a	a	a	a	a	Ν	a	a	a	a	a	a	a	Ν	a	a	a	a	a	a	İ
Mexico	a	L	Countrywide	m	Yes	Yes	No	Yes	Yes	L	Countrywide	m	Yes	Yes	No	Yes	Yes	L	Countrywide	m	Yes	Yes	No	Yes	;
Netherlands	a	L	Countrywide	79	Yes	Yes	Yes	Yes	Yes	L	Countrywide	68	Yes	Yes	Yes	Yes	Yes	L	Countrywide	68	Yes	Yes	Yes	Yes	1
New Zealand	a	L	Countrywide	100	Yes	Yes	Yes	No	No	L	Countrywide	100	Yes	Yes	Yes	No	No	L	Countrywide	100	Yes	Yes	Yes	No	,
Norway	a	Р	m	m	a	a	a	a	a	Р	m	m	a	a	a	a	a	Р	m	m	a	a	a	a	ı
Poland	а	L	Countrywide	m	Yes	Yes	No	Yes	No	L	Countrywide	m	Yes	Yes	No	Yes	No	L	Countrywide	m	Yes	Yes	No	Yes	;
Portugal	a	L	Countrywide	m	Yes	Yes	No	No	No	L	Countrywide	m	Yes	Yes	No	No	No	L	Countrywide	m	Yes	Yes	No	No	,
Scotland (UK)	a	N	a	a	a	a	a	a	a	Ν	a	a	a	a	a	a	a	Ν	a	a	a	a	a	a	Τ
Slovak Republic	a	L	Countrywide	100	Yes	Yes	No	No	No	L	Countrywide	100	Yes	Yes	No	No	No	L	Countrywide	100	Yes	Yes	No	No	,
Slovenia	a	L	Countrywide	100	Yes	Yes	Yes	Yes	Yes	L	Countrywide	100	Yes	Yes	Yes	Yes	Yes	L	Countrywide	100	Yes	Yes	Yes	Yes	;
Spain	a	L	Countrywide	71	No	No	Yes	No	No	L	Countrywide	74	No	No	Yes	No	No	L	Countrywide	70	No	No	Yes	No	,
Sweden	a	L	Countrywide	100	No	Yes	Yes	No	Yes	L	Countrywide	100	No	Yes	Yes	No	Yes	L	Countrywide	100	No	Yes	Yes	No	-
Switzerland	a	L	Countrywide	m	m	m	m	m	m	L	Countrywide	m	m	m	m	m	m	L	Countrywide	m	m	m	m	m	1
Turkey	a	L	Countrywide	100	Yes	Yes	No	No	Yes	L	Countrywide	100	Yes	Yes	No	No	Yes	L	Countrywide	100	Yes	Yes	No	No	,
United States	a	L	Some states	m	Yes	Yes	Yes	Yes	Yes		, , , , , , ,						_		Some states						,

Existence of teacher appraisal (columns 1, 9, 17) L: Legislated P: No teacher appraisal, but have similar practices N: No teacher appraisal or similar practices

^{1.} Teacher appraisal is legislated in public institutions, and not legislated (but widely practised) in private institutions.

2. The Education Bureau requires all schools to have a fair and open performance appraisal system for teachers. Schools should develop their own school-based appraisal system in consultation with teachers.

Note: Federal states or countries with highly decentralised school systems may have different regulations in states, provinces or regions.

* See note at the beginning of this Annex.

Sources: a. Education at a Glance 2015: OECD Indicator (OECD, 2015).

b. PISA system-level data collection in 2016.

StatLink *** http://dx.doi.org/10.1787/888933436498



[Part 2/2]

Table II.4.47 Teacher appraisal (2015)

By level of education

					Pri	mary						Lowers	econ	dary	(gen	eral)				Upper	econ	dary	(gen	eral)		
				Policy implementat or practic (if not legisla	e	a	pprai	of te sal co y frai	overe	d		Policy implemental or practic (if not legisla	e	a	pprai	sal c	ache overe mewo	d		Policy implementa or practic (if not legisla	e	a	Types pprai polic	sal c	overe	ed
		Source	Existence of teacher appraisal	Breadth	Percentage of teachers appraised	Completion of probation	Regular appraisal	Teacher registration	Appraisal for promotion	Reward schemes	Existence of teacher appraisal	Breadth	Percentage of teachers appraised	Completion of probation	Regular appraisal	Teacher registration	Appraisal for promotion	Reward schemes	Existence of teacher appraisal	Breadth	Percentage of teachers appraised	Completion of probation	Regular appraisal	Teacher registration	Appraisal for promotion	Reward schemes
S	Albania	<i>b</i>	(1) m	(2) m	(3) m	(4) m	(5) m	(6) m	(7) m	(8) m	(9) m	(10) m	(11) m	(12) m	(13) m	(14) m	(15) m	(16) m	(17) m	(18) m	(19) m	(20) m	(21) m	(22) m	(23) m	(24) m
Partners	Algeria	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
art	Argentina	b	P	a	a	a	a	a	a	a	P	a	a	a	a	a	a	a	Р	a	a	a	a	a	a	a
_	Brazil	a	L	m	m	Yes	Yes	No	m	m	L	m	m	Yes	Yes	No	m	m	L	m	m	Yes	Yes	No	m	m
	B-S-J-G (China)	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Bulgaria	b	P	a	a	a	a	a	a	a	P	a	a	a	a	a	a	a	P	a	a	a	a	a	a	a
	Colombia	a	1	Countrywide	41	Yes	Yes	No	Yes	No	L	Countrywide	48	Yes	Yes	No	Yes	No	L	Countrywide	48	Yes	Yes	No	Yes	No
	Costa Rica	Ь	L	m	m	m	m	m	m	m	ı	m	m	m	m	m	m	m	L	m	m	m	m	m	m	m
	Croatia	b	L	Countrywide	m	Yes	Yes	Yes	Yes	No	L	Countrywide	m	Yes	Yes	Yes	Yes	No	L	Countrywide	m	Yes	Yes	Yes	Yes	No
	Cyprus*	b	L	Countrywide	43	Yes	Yes	No	No	No	L	Countrywide	42.5	Yes	Yes	No	No	No	L	Countrywide	42.5	Yes	Yes	No	No	No
	Dominican Republic	b	L	Countrywide	m	No	Yes	No	No	No	L	Countrywide	m	No	Yes	No	No	No	L	Countrywide	m	No	Yes	No	No	No
	FYROM	b	L	Countrywide	m	Yes	Yes	Yes	Yes	Yes	L	Countrywide	m	Yes	Yes	Yes	Yes	Yes	L	Countrywide	m	Yes	Yes	Yes	Yes	Yes
	Georgia	b	L	Countrywide	m	No	Yes	Yes	Yes	Yes	L	Countrywide	68	No	Yes	Yes	Yes	Yes	L	Countrywide	65	No	Yes	Yes	Yes	Yes
	Hong Kong (China) ²	Ь	Р	a	100	a	a	а	а	a	Р	a	100	a	a	а	а	a	Р	a	100	а	a	a	a	a
	Indonesia	Ь	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Jordan	Ь	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Kazakhstan	Ь	L	Countrywide	87	No	No	No	Yes	No	L	Countrywide	71.5	No	No	No	Yes	No	L	Countrywide	74.8	No	No	No	Yes	No
	Kosovo	Ь	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Lebanon	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Lithuania	Ь	L	Countrywide	m	No	Yes	No	Yes	Yes	L	Countrywide	m	No	Yes	No	Yes	Yes	L	Countrywide	m	No	Yes	No	Yes	Yes
	Macao (China)	Ь	L	Countrywide	100	Yes	Yes	Yes	Yes	Yes	L	Countrywide	100	Yes	Yes	Yes	Yes	Yes	L	Countrywide	100	Yes	Yes	Yes	Yes	Yes
	Malaysia	Ь	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Malta	Ь	L	Countrywide	m	Yes	Yes	Yes	Yes	No	L	Countrywide	m	Yes	Yes	Yes	Yes	No	L	Countrywide	m	Yes	Yes	Yes	Yes	No
	Moldova	Ь	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Montenegro	Ь	L	Countrywide	99	Yes	Yes	Yes	No	Yes	L	Countrywide	99	Yes	Yes	Yes	No	Yes	L	Countrywide	99	Yes	Yes	Yes	No	Yes
	Peru	Ь	L	Countrywide	66.9	No	Yes	Yes	Yes	Yes	L	Countrywide	66.9	No	Yes	Yes	Yes	Yes	L	Countrywide	66.9	No	Yes	Yes	Yes	Yes
	Qatar	Ь	L	Countrywide	m	Yes	Yes	Yes	No	No	L	Countrywide	m	Yes	Yes	Yes	No	No	L	Countrywide	m	Yes	Yes	Yes	No	No
	Romania	Ь	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Russia	а	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Singapore	Ь	L	Countrywide	100	Yes	Yes	a	Yes	Yes	L	Countrywide	100	Yes	Yes	a	Yes	Yes	L	Countrywide	100	Yes	Yes	a	Yes	Yes
	Chinese Taipei	b	Р	a	a	a	a	a	a	a	Р	a	a	a	a	a	a	a	Р	a	a	a	a	a	a	a
	Thailand	b	L	Countrywide	m	Yes	Yes	m	m	m	L	Countrywide	m	Yes	Yes	m	m	m	L	Countrywide	m	Yes	Yes	m	m	m
	Trinidad and Tobago	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Tunisia	Ь	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	United Arab Emirates	b	L	Countrywide	100	Yes	Yes	Yes	Yes	Yes	L	Countrywide	100	Yes	Yes	Yes	Yes	Yes	L	Countrywide	100	Yes	Yes	Yes	Yes	Yes
	Uruguay	Ь	L	Countrywide	100	No	Yes	Yes	Yes	Yes	L	Countrywide	100	No	Yes	Yes	Yes	Yes	L	Countrywide	100	No	Yes	Yes	Yes	Yes
	Viet Nam	Ь	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m

Existence of teacher appraisal (columns 1, 9, 17)

L: Legislated
P: No teacher appraisal, but have similar practices
N: No teacher appraisal or similar practices

^{1.} Teacher appraisal is legislated in public institutions, and not legislated (but widely practised) in private institutions.

2. The Education Bureau requires all schools to have a fair and open performance appraisal system for teachers. Schools should develop their own school-based appraisal system in consultation with teachers.

Note: Federal states or countries with highly decentralised school systems may have different regulations in states, provinces or regions.

* See note at the beginning of this Annex.

Sources: a. Education at a Clance 2015: OECD Indicator (OECD, 2015).

b. PISA system-level data collection in 2016.

StatLink ***Indicator** http://dx.doi.org/10.1787/888933436498



Table II.4.58 School leader appraisal (2015)

By level of education

By level of educ	1			Primary		Lowe	r secondary (gen	eral)	Uppe	r secondary (gen	eral)
			Existence	Policy imple or pra (if not le	ctice	Existence of	Policy imple or pra (if not les	ementation ctice	Existence of	Policy imple or pra (if not les	ementation ctice
		Source	of school leader appraisal that is required by policy or regulations	Breadth	Percentage of school leaders appraised	school leader appraisal that is required by policy or regulations	Breadth	Percentage of school leaders appraised	school leader appraisal that is required by policy or regulations	Breadth	Percentage of school leaders appraised
Atura lii a			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Australia Austria Belgium (Fl.)		a a	P N	Countrywide a	m	P N	Countrywide	m a	P N	Countrywide	m a
O Belgium (Fl.)		a	I	Countrywide	a m	L	Countrywide	m	L	Countrywide	m
Belgium (Fr.)		a	Ĺ	Countrywide	100	Ĺ	Countrywide	100	Ĺ	Countrywide	100
Canada		a	L	Some states	m	L	Some states	m	L	Some states	m
Chile		а	N	a	a	N	a	a	N	a	a
Czech Republio	С	а	L	Countrywide	100	L	Countrywide	100	L	Countrywide	100
Denmark		a	Р	Countrywide	100	P	Countrywide	100	Р	Countrywide	100
England (UK) ¹ Estonia		a a	L N	Some schools a	90 a	L N	Some schools a	90 a	L N	Some schools a	90 a
Finland		a	m	m	m	m	m	m m	m	m	m
France		a	L	Countrywide	m	L	Countrywide	m	L	Countrywide	m
Germany		а	N	a	a	N	a [′]	a	N	a	a
Greece		а	L	Countrywide	100	L	Countrywide	100	L	Countrywide	100
Hungary		а	L	Countrywide	m	L	Countrywide	m	L	Countrywide	m
Iceland Ireland		a	N N	a a	a	N N	a	a	N N	a	a
Ireiand Israel		a	L	a Countrywide	a 100	N L	a Countrywide	a 100	P P	a m	a m
Italy		a	N	a	a	N	a	a	N	a	a
Japan		a	N	a	a	N	a	a	N	a	a
Korea		а	L	Countrywide	m	L	Countrywide	m	L	Countrywide	m
Latvia		а	Р	Countrywide	m	Р	Countrywide	m	Р	Countrywide	m
Luxembourg		а	N .	a	a	N	a	a	N	a	a
Mexico Netherlands		a	L	Countrywide	m 100	L P	Countrywide	m	m P	m	m
New Zealand		a a	L	Countrywide Countrywide	100	L	m Countrywide	m 100	Ĺ	m Countrywide	m 100
Norway		a	N	a	a	N	a	a	N	a	a
Poland		а	L	Countrywide	m	L	Countrywide	m	L	Countrywide	m
Portugal		а	L	Countrywide	100	L	Countrywide	100	L	Countrywide	100
Scotland (UK)		а	N	a	a	N	a	a	N	a	a
Slovak Republic	С	а	L	Countrywide	99	L	Countrywide	99	L	Countrywide	100
Slovenia Spain		a	L	Countrywide	100	L	Countrywide	100	L	Countrywide	100 70
Sweden		a	N	Countrywide	70 a	N	Countrywide	70 a	N	Countrywide	a
Switzerland		a	Ï	Countrywide	m	I	Countrywide	m m	L	Countrywide	m
Turkey		a	Ĺ	Countrywide	100	Ĺ	Countrywide	100	Ĺ	Countrywide	100
United States		а	L	Some states	m	L	Some states	m	L	Some states	m
∧ Albania		Ь	m	m	m	m	m	m	m	m	m
Algeria Argentina Rrazil		b	m	m	m	m	m	m	m	m	m
Argentina		b	N	a	a	N	a	a	N	a	a
Brazil		а	m	m	m	m	m	m	m	m	m
B-S-J-G (China))	b	m	m	m	m	m	m	m	m	m
Bulgaria		b	N	a	a	N	a	a	N	a	a
Colombia		a	L	Countrywide	14	L	Countrywide	20	L	Countrywide	20
Costa Rica Croatia		b	m I	m Countrywide	m m	m I	m Countrywide	m m	m I	m Countrywide	m m
Cyprus*		b	L	Countrywide	38	L	Countrywide	45	L	Countrywide	45
Dominican Rep	oublic	b	N	a	a	N	a a	a	N	a	a
FYROM .		b	Р	Some schools	m	Р	Some schools	m	P	Some schools	m
Georgia		b	N	a	a	N	a	a	N	a	a
Hong Kong (Ch Indonesia	iina)	b	N	a	a	N	a	a	N	a	a
Jordan		b	m m	m m	m m	m m	m m	m m	m m	m m	m m
Kazakhstan		b	L	Countrywide	m	L	Countrywide	m	L	Countrywide	m
Kosovo		b	m	m	m	m	m	m	m	m	m
Lebanon		b	m	m	m	m	m	m	m	m	m
Lithuania		b	L	Countrywide	m	L	Countrywide	m	L	Countrywide	m
Macao (China) Malaysia		b	L m	Countrywide m	m m	L m	Countrywide m	m m	L m	Countrywide m	m m
Malta		b	L	Countrywide	m	L	Countrywide	m	L	Countrywide	m
Moldova		b	m	m	m	m	m	m	m	m	m
Montenegro		b	L	Countrywide	100	L	Countrywide	100	L	Countrywide	100
Peru		b	N	a a	a	N	a	a	N	a	a
Qatar		b	L	Countrywide	m	L	Countrywide	m	L	Countrywide	m
Romania Russia		b	m	m	m	m	m	m	m	m	m
Singapore		a b	m L	m Countrywide	m 100	m L	m Countrywide	m 100	m L	m Countrywide	m 100
Chinese Taipei		b	N	a	a	N	a	a	N	a	a
Thailand .		b	Ĺ	Countrywide	m	Ĺ	Countrywide	m	L	Countrywide	m
Trinidad and To	bago	b	m	m	m	m	m	m	m	m	m
Tunisia		Ь	m	m	m	m	m	m	m	m	m
United Arab En Uruguay	nirates	b	L L	Countrywide Countrywide	100 100	L L	Countrywide Countrywide	100 100	L L	Countrywide Countrywide	100 100
Viet Nam		b	m m	m	m	m L	m	m	m	m	m
		~								.41	

Existence of school leader appraisal (columns 1, 4, 7) L: Legislated P: No school leader appraisal, but have similar practices N: No school leader appraisal or similar practices

^{1.} Legislated in public institutions, and not legislated (but widely practised) in private institutions.

Note: Federal states or countries with highly decentralised school systems may have different regulations in states, provinces or regions.

* See note at the beginning of this Annex.

Sources: a. Education at a Glance 2015: OECD Indicator (OECD, 2015).

b. PISA system-level data collection in 2016.

StatLink ***Indicator** http://dx.doi.org/10.1787/888933436498



[Part 1/2]

Table II.5.3 Student grade level

esults based on stud						Pe	ercentage o	f students i	in:					
	Gra	de 7	Gra	de 8	Grae			le 10	Grad	e 11	Grad	e 12	Grad	le 13
	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Australia	0.0	(0.0)	0.1	(0.0)	11.2	(0.3)	74.6	(0.4)	14.0	(0.4)	0.1	(0.0)	0.0	С
Australia Austria Relgium	0.0	(0.0)	2.0	(0.6)	20.8	(0.9)	71.2	(1.0)	5.9	(0.3)	0.0	(0.0)	0.0	С
Deigram	0.6	(0.1)	6.4	(0.5)	30.7	(0.7)	61.0	(0.9)	1.3	(0.1)	0.0	(0.0)	0.0	C
Chile	0.1	(0.0)	0.7	(0.1)	10.8	(0.5)	87.6	(0.6)	0.8	(0.1)	0.0	(0.0)	0.0	С
Chile Czech Republic	1.7 0.5	(0.3)	4.1 3.9	(0.6)	24.0 49.4	(0.7)	68.1 46.2	(1.0)	2.1 0.0	(0.2)	0.0	(0.0) C	0.0	C C
Denmark	0.3	(0.1)	16.4	(0.6)	81.9	(0.7)	1.4	(0.5)	0.0	(0.0) C	0.0	С	0.0	С
Estonia	0.8	(0.2)	21.3	(0.6)	76.6	(0.6)	1.3	(0.3)	0.0	С	0.0	(0.0)	0.0	C
Finland	0.5	(0.1)	13.6	(0.4)	85.7	(0.4)	0.0	(0.0)	0.2	(0.1)	0.0	С	0.0	С
France	0.0	(0.0)	1.0	(0.2)	23.1	(0.6)	72.5	(0.7)	3.2	(0.2)	0.1	(0.1)	0.0	С
Germany	0.5	(0.1)	7.7	(0.4)	47.3	(0.8)	43.1	(0.8)	1.5	(0.5)	0.0	(0.0)	0.0	С
Greece	0.2	(0.1)	0.7	(0.2)	3.8	(0.8)	95.3	(0.9)	0.0	С	0.0	С	0.0	С
Hungary	1.7	(0.3)	8.5	(0.5)	75.8	(0.7)	14.0	(0.5)	0.0	С	0.0	С	0.0	С
Iceland	0.0	C (0, 0)	0.0	C (0.2)	0.0	C (0.7)	100.0	C (1.1)	0.0	C (0, 0)	0.0	С	0.0	С
Ireland	0.0	(0.0)	1.8	(0.2)	60.6	(0.7)	26.5	(1.1)	11.1	(0.9)	0.0	С	0.0	С
Israel Italy	0.0	(0.0)	0.1 1.0	(0.0)	16.4 15.2	(0.9)	82.7 77.2	(0.9)	0.9 6.6	(0.3)	0.0	C C	0.0	c c
Japan	0.0	(0.0) C	0.0	(0.2) C	0.0	(0.0) C	100.0	(0.0)	0.0	(U.3)	0.0	С	0.0	С
Korea	0.0	С	0.0	С	9.1	(0.8)	90.4	(0.8)	0.5	(0.1)	0.0	С	0.0	С
Latvia	0.9	(0.2)	11.7	(0.5)	84.4	(0.6)	2.9	(0.3)	0.0	(0.0)	0.0	С	0.0	С
Luxembourg	0.3	(0.1)	7.9	(0.1)	50.9	(0.1)	40.3	(0.1)	0.6	(0.0)	0.0	С	0.0	С
Mexico	2.3	(0.3)	4.8	(0.4)	31.9	(1.4)	60.3	(1.6)	0.5	(0.1)	0.2	(0.0)	0.0	С
Netherlands	0.1	(0.0)	2.8	(0.3)	41.6	(0.6)	54.8	(0.6)	0.8	(0.2)	0.0	(0.0)	0.0	С
New Zealand	0.0	С	0.0	С	0.0	(0.0)	6.2	(0.3)	88.8	(0.5)	4.9	(0.5)	0.0	(0.0)
Norway	0.0	С	0.0	С	0.6	(0.1)	99.3	(0.2)	0.1	(0.1)	0.0	С	0.0	С
Poland	0.6	(0.1)	4.9	(0.3)	93.8	(0.4)	0.6	(0.2)	0.0	С	0.0	С	0.0	С
Portugal	3.2	(0.3)	8.4	(0.5)	22.9	(0.9)	65.1	(1.2)	0.4	(0.1)	0.0	С	0.0	С
Slovak Republic	2.2	(0.4)	4.6	(0.4)	42.6	(1.3)	50.6	(1.2)	0.1	(0.0)	0.0	С	0.0	С
Slovenia	0.0	C (O, O)	0.3	(0.1)	4.8	(0.3)	94.6	(0.4)	0.3	(0.1)	0.0	С	0.0	С
Spain Sweden	0.1	(0.0)	8.6 3.1	(0.5)	23.4 94.9	(0.6)	67.9 1.8	(0.9)	0.1	(0.1)	0.0	C C	0.0	C C
Switzerland	0.1	(0.1)	11.8	(0.7)	61.3	(1.2)	25.9	(1.3)	0.1	(0.1)	0.0	(0.0)	0.0	C
Turkey	0.6	(0.1)	2.6	(0.4)	20.7	(1.0)	72.9	(1.2)	3.0	(0.3)	0.1	(0.0)	0.0	С
United Kingdom	0.0	(O.1)	0.0	(O. 1)	0.0	C	1.6	(0.3)	97.4	(0.4)	1.0	(0.3)	0.0	(0.0)
United States	0.0	(0.0)	0.5	(0.3)	9.6	(0.7)	72.4	(0.9)	17.3	(0.6)	0.1	(0.0)	0.0	С
OECD average	0.5	(0.0)	4.6	(0.1)	35.0	(0.1)	52.3	(0.1)	7.4	(0.0)	0.2	(0.0)	0.0	(0.0)
The state of the s	0.2	(0.1)	1.0	(0.2)	35.8	(2.2)	61.7	(2.2)	1.2	(0.7)	0.0	(0.0)	0.0	
Albania Algeria Brazil	18.8	(1.0)	1.0 23.5	(0.2)	35.8	(2.3)	19.4	(2.3)	3.2	(0.7)	0.0	(U.U) C	0.0	c c
Brazil	3.5	(0.2)	6.4	(0.4)	12.5	(0.5)	35.9	(0.9)	39.2	(0.8)	2.5	(0.2)	0.0	С
B-S-J-G (China)	1.1	(0.2)	9.2	(0.7)	52.7	(1.7)	34.6	(2.0)	2.2	(0.5)	0.1	(0.0)	0.0	С
Bulgaria	0.5	(0.2)	3.0	(0.6)	92.2	(0.8)	4.3	(0.4)	0.0	(O.5)	0.0	(0.0) C	0.0	С
CABA (Argentina)	4.1	(1.0)	17.2	(2.2)	71.1	(3.3)	7.2	(2.0)	0.3	(0.3)	0.0	С	0.0	С
Colombia	5.3	(0.4)	12.3	(0.6)	22.7	(0.6)	40.2	(0.7)	19.5	(0.6)	0.0	С	0.0	С
Costa Rica	6.2	(0.7)	14.0	(0.7)	33.0	(1.2)	46.5	(1.6)	0.2	(0.1)	0.1	(0.1)	0.0	С
Croatia	0.0	С	0.2	(0.2)	79.2	(0.5)	20.6	(0.4)	0.0	С	0.0	С	0.0	С
Cyprus*	0.0	C	0.3	(0.0)	5.8	(0.1)	93.1	(0.1)	0.7	(0.1)	0.0	С	0.0	С
Dominican Republic	7.1	(0.8)	13.8	(1.2)	20.6	(0.8)	41.9	(1.1)	14.2	(0.7)	2.4	(0.3)	0.0	С
FYROM	0.1	(0.1)	0.1	(0.1)	70.2	(0.2)	29.7	(0.2)	0.0	(O 2)	0.0	С	0.0	С
Georgia	0.1	(0.0)	0.8 5.6	(0.2)	22.0 26.0	(0.8)	76.0 66.7	(0.9)	1.1 0.6	(0.3)	0.0	С	0.0	С
Hong Kong (China) Indonesia	2.1	(0.1)	8.1	(0.4)	42.1	(0.7)	45.5	(0.7)	2.3	(0.5)	0.0	(0.0)	0.0	C C
Jordan	0.2	(0.3)	0.6	(0.7)	6.6	(0.4)	92.6	(0.4)	0.0	(U.4) C	0.0	(0.0) C	0.0	С
Kosovo	0.0	(0.1)	0.6	(0.1)	24.9	(0.8)	72.4	(0.4)	2.1	(0.2)	0.0	c	0.0	С
Lebanon	3.7	(0.5)	8.3	(0.8)	16.6	(1.1)	62.3	(1.4)	9.0	(0.8)	0.1	(0.1)	0.0	С
Lithuania	0.1	(0.0)	2.6	(0.2)	86.3	(0.4)	11.0	(0.4)	0.0	(0.0)	0.0	c	0.0	С
Macao (China)	2.9	(0.1)	12.2	(0.2)	29.7	(0.2)	54.5	(0.1)	0.6	(0.1)	0.0	С	0.0	С
Malta	0.0	С	0.0	С	0.3	(0.1)	6.1	(0.2)	93.6	(0.1)	0.1	(0.0)	0.0	С
Moldova	0.2	(0.1)	7.6	(0.5)	84.5	(0.8)	7.5	(0.8)	0.0	(0.0)	0.0	С	0.0	С
Montenegro	0.0	C	0.0	C	83.7	(0.1)	16.3	(0.1)	0.0	C	0.0	С	0.0	C
Peru	2.5	(0.3)	6.6	(0.4)	15.9	(0.5)	50.2	(0.8)	24.8	(0.8)	0.0	C (0.0)	0.0	C
	0.9	(0.1)	3.5	(0.1)	16.3	(0.1)	60.7	(0.1)	18.0	(0.1)	0.6	(0.0)	0.0	С
Qatar	1.4 0.2	(0.3)	8.9 6.6	(0.5)	74.8 79.7	(0.9)	14.9 13.4	(0.7)	0.0	(O, O)	0.0	С	0.0	C
Romania		(0.1)	1.9	(0.3)	79.7	(1.5)	90.0	(1.5) (1.0)	0.1	(0.0)	0.0	(0.0)	0.0	C C
Romania Russia			0.0	(U.3)	35.4	(0.7)	64.6	(0.7)	0.0	(U.U)	0.0	(U.U)	0.0	С
Romania Russia Singapore	0.0				23.8	(1.0)	72.9	(1.0)	2.4	(0.4)	0.0	С	0.0	C
Romania Russia Singapore Chinese Taipei	0.0	(0.1)	0.6	(() /)			56.5	(0.3)	2.2	(0.4)	0.0	c	0.0	С
Romania Russia Singapore	0.0	(0.1)	0.6 10.8	(0.2)	27.3	(0.3)								
Romania Russia Singapore Chinese Taipei Thailand	0.0		0.6 10.8 10.6	(0.2) (0.3) (0.8)	27.3 19.6	(0.3)	60.9	(1.7)	4.6	(0.4)	0.0	c	0.0	C
Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	0.0 0.2 3.3	(0.1)	10.8	(0.3)										C C
Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	0.0 0.2 3.3 4.3 0.6 7.5	(0.1) (0.2) (0.3) (0.1) (0.6)	10.8 10.6 2.5 9.7	(0.3) (0.8) (0.3) (0.5)	19.6 10.6 20.7	(1.3) (0.7) (0.7)	60.9 53.4 61.3	(1.7) (0.8) (1.2)	4.6 31.4 0.8	(0.4) (0.8) (0.1)	0.0 1.5 0.0	С	0.0 0.0 0.0	C C
Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	0.0 0.2 3.3 4.3 0.6	(0.1) (0.2) (0.3) (0.1)	10.8 10.6 2.5	(0.3) (0.8) (0.3)	19.6 10.6	(1.3) (0.7)	60.9 53.4	(1.7) (0.8)	4.6 31.4	(0.4) (0.8)	0.0 1.5	(0.1)	0.0	C C
Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	0.0 0.2 3.3 4.3 0.6 7.5	(0.1) (0.2) (0.3) (0.1) (0.6)	10.8 10.6 2.5 9.7	(0.3) (0.8) (0.3) (0.5)	19.6 10.6 20.7	(1.3) (0.7) (0.7)	60.9 53.4 61.3	(1.7) (0.8) (1.2)	4.6 31.4 0.8	(0.4) (0.8) (0.1)	0.0 1.5 0.0	(0.1) C	0.0 0.0 0.0	c c c
Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	0.0 0.2 3.3 4.3 0.6 7.5 0.3	(0.1) (0.2) (0.3) (0.1) (0.6) (0.1)	10.8 10.6 2.5 9.7 1.7	(0.3) (0.8) (0.3) (0.5) (0.4)	19.6 10.6 20.7 7.7	(1.3) (0.7) (0.7) (1.8)	60.9 53.4 61.3 90.4	(1.7) (0.8) (1.2) (2.2)	4.6 31.4 0.8 0.0	(0.4) (0.8) (0.1) (0.0)	0.0 1.5 0.0 0.0	(0.1) c c	0.0 0.0 0.0 0.0	С

^{1.} Probability (in %) that two students selected at random are enrolled in different grade levels (100 – Herfindahl index).
* See note at the beginning of this Annex.
** Coverage is too small to ensure comparability (see Annex A4).
StatLink 編章 http://dx.doi.org/10.1787/888933436509



[Part 2/2]

Table II.5.3 Student grade level

	iits based on stude						Pe	ercentage o	f students	in:		Percen	tage of stu	dents enro	lled in:
		in stu	Variatior udent grad			Grades the mod		The mod	lal grade	Grades the mod			econdary ation ED 2)	Upper se educ (ISC	
		S.D.	S.E.	Diversity Index ¹	Modal grade	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
9	Australia	0.51	(0.00)	41.2	10	11.4	(0.3)	74.6	(0.4)	14.0	(0.4)	86.0	(0.4)	14.0	(0.4)
_	Austria	0.56	(0.02)	44.5	10	22.8	(1.0)	71.2	(1.0)	6.0	(0.3)	2.0	(0.6)	97.9	(0.6)
	Belgium	0.66	(0.01)	53.0	10	37.7	(0.9)	61.0	(0.9)	1.3	(0.1)	9.3	(0.6)	90.7	(0.6)
	Canada	0.37	(0.01)	22.1	10	11.6	(0.6)	87.6	(0.6)	0.8	(0.1)	11.6	(0.6)	88.4	(0.6)
	Chile	0.67 0.59	(0.02)	47.7 54.1	10 10	29.8 53.8	(1.0)	68.1 46.2	(1.0)	2.1 0.0	(0.2)	5.8 54.4	(0.8)	94.2	(0.8)
	Czech Republic Denmark	0.59	(0.01)	30.2	9	16.6	(0.6)	81.9	(0.7)	1.4	(0.5)	99.3	(0.4)	45.6 0.7	(1.2)
	Estonia	0.46	(0.01)	36.7	9	22.1	(0.6)	76.6	(0.7)	1.4	(0.3)	98.7	(0.4)	1.3	(0.4)
	Finland	0.38	(0.01)	24.7	9	14.0	(0.4)	85.7	(0.4)	0.3	(0.3)	99.8	(0.3)	0.2	(0.1)
	France	0.51	(0.01)	41.9	10	24.1	(0.6)	72.5	(0.7)	3.3	(0.2)	24.1	(0.6)	75.9	(0.6)
	Germany	0.67	(0.01)	58.5	9	8.2	(0.5)	47.3	(0.8)	44.6	(0.9)	96.2	(0.8)	3.8	(0.8
	Greece	0.29	(0.03)	9.1	10	4.7	(0.9)	95.3	(0.9)	0.0	C	4.7	(0.9)	95.3	(0.9
I	Hungary	0.54	(0.01)	39.8	9	10.2	(0.5)	75.8	(0.7)	14.0	(0.5)	10.2	(0.5)	89.8	(0.5
ı	celand	0.00	(0.00)	0.0	10	0.0	C	100.0	C	0.0	C	100.0	С	0.0	(
I	reland	0.71	(0.01)	55.0	9	1.8	(0.2)	60.6	(0.7)	37.6	(0.8)	62.4	(0.8)	37.6	(0.8)
I	srael	0.39	(0.01)	29.0	10	16.5	(0.9)	82.7	(0.9)	0.9	(0.3)	10.9	(1.0)	89.1	(1.0
	taly	0.50	(0.01)	37.7	10	16.2	(0.6)	77.2	(0.7)	6.6	(0.3)	1.1	(0.3)	98.9	(0.3)
	apan	0.00	(0.00)	0.0	10	0.0	С	100.0	С	0.0	С	0.0	С	100.0	(0.0)
	Korea	0.30	(0.01)	17.4	10	9.1	(0.8)	90.4	(0.8)	0.5	(0.1)	9.1	(0.8)	90.9	(0.8)
	atvia .	0.42	(0.01)	27.3	9	12.7	(0.6)	84.4	(0.6)	2.9	(0.3)	96.3	(0.5)	3.7	(0.5
	Luxembourg	0.64	(0.00)	57.2	9	8.2	(0.1)	50.9	(0.1)	40.9	(0.1)	56.5	(0.1)	43.5	(0.1
	Mexico	0.71	(0.02)	53.2	10	39.0	(1.6)	60.3	(1.6)	0.7	(0.1)	39.0	(1.6)	61.0	(1.6
	Netherlands	0.57	(0.01)	52.6	10	44.5	(0.6)	54.8	(0.6)	0.8	(0.2)	70.5	(0.6)	29.5	(0.6
	New Zealand	0.34	(0.01)	20.5	11	6.2	(0.3)	88.8	(0.5)	5.0	(0.5)	6.2	(0.3)	93.8	(0.3
	Norway	0.08	(0.01)	1.3	10	0.6	(0.1)	99.3	(0.2)	0.1	(0.1)	99.9	(0.1)	0.1	(0.1
	Poland	0.28	(0.01)	11.7	9	5.5	(0.4)	93.8	(0.4)	0.6	(0.2)	99.4	(0.2)	0.6	(0.2
	Portugal	0.78	(0.02)	51.5	10	34.4	(1.2)	65.1	(1.2)	0.4	(0.1)	34.7	(1.3)	65.3	(1.3
	Slovak Republic	0.68	(0.02)	56.0	10	49.3	(1.2)	50.6	(1.2)	0.1	(0.0)	47.4	(1.1)	52.6	(1.1
	Slovenia	0.25	(0.01)	10.3 47.7	10	5.1 32.0	(0.4)	94.6	(0.4)	0.3	(0.1)	5.1	(0.4)	94.9	(0.4
	Spain		(0.01)		10		(1.0)	67.9	(0.9)	0.1	(0.1)	99.9	(0.1)	0.1	(0.1
	Sweden	0.24	(0.02)	9.8	9	3.2	(0.4)	94.9	(0.8)	1.9	(0.7)	98.1	(0.7)	1.9 23.0	(0.7
	Switzerland Furkey	0.63 0.58	(0.01)	54.3 42.4	10	12.3 24.0	(0.7)	61.3 72.9	(1.2)	26.4 3.1	(1.4)	77.0 3.2	(1.2)	96.8	(0.5
	United Kingdom	0.36	(0.02)	5.1	11	1.6	(0.3)	97.4	(0.4)	1.0	(0.3)	0.2	(0.1)	99.8	(0.3
	United States	0.16	(0.01)	43.7	10	10.2	(0.3)	72.4	(0.4)	17.4	(0.6)	10.2	(0.7)	89.8	(0.7
	OECD average	0.34	(0.02)	33.9	10	17.1	(0.7)	76.1	(0.9)	6.8	(0.0)	46.5	(0.7)	53.5	(0.7
	Albania	0.54	(0.01)	49.0	10	37.0	(2.3)	61.7	(2.3)	1.3	(0.7)	37.0	(2.3)	63.0	(2.3
	Algeria	1.09	(0.01)	74.8	9	42.3	(1.7)	35.1	(1.5)	22.6	(2.6)	76.9	(2.5)	23.1	(2.5
í	Brazil	1.09	(0.02)	69.6	10	22.3	(0.8)	35.9	(0.9)	41.8	(0.8)	22.3	(0.8)	77.7	(0.8
	B-S-J-G (China)	0.71	(0.01)	59.3	9	10.3	(0.8)	52.7	(1.7)	37.0	(2.0)	63.0	(2.0)	37.0	(2.0
	Bulgaria	0.30	(0.02)	14.7	9	3.5	(0.7)	92.2	(0.8)	4.3	(0.4)	3.1	(0.7)	96.9	(0.7
	CABA (Argentina)	0.63	(0.04)	45.7	9	21.4	(2.7)	71.1	(3.3)	7.5	(2.3)	92.5	(2.3)	7.5	(2.3
	Colombia	1.10	(0.01)	73.1	10	40.3	(1.0)	40.2	(0.7)	19.5	(0.6)	40.3	(1.0)	59.7	(1.0
	Costa Rica	0.91	(0.02)	65.1	10	53.2	(1.6)	46.5	(1.6)	0.3	(0.1)	53.2	(1.6)	46.8	(1.6
	Croatia	0.41	(0.00)	33.0	9	0.2	(0.2)	79.2	(0.5)	20.6	(0.4)	0.2	(0.2)	99.8	(0.2
	Cyprus*	0.27	(0.00)	12.9	10	6.1	(0.1)	93.1	(0.1)	0.7	(0.1)	6.1	(0.1)	93.9	(0.1
	Dominican Republic	1.17	(0.02)	73.7	10	41.5	(1.2)	41.9	(1.1)	16.6	(0.8)	20.9	(1.4)	79.1	(1.4
	FYROM	0.46	(0.01)	42.0	9	0.2	(0.2)	70.2	(0.2)	29.7	(0.2)	0.2	(0.2)	99.8	(0.2
	Georgia	0.47	(0.01)	37.4	10	22.9	(0.8)	76.0	(0.9)	1.1	(0.3)	22.5	(0.9)	77.5	(0.9
	Hong Kong (China)	0.66	(0.01)	48.4	10	32.7	(0.9)	66.7	(0.7)	0.6	(0.5)	32.7	(0.9)	67.3	(0.9
	ndonesia	0.75	(0.02)	60.9	10	52.2	(1.7)	45.5	(1.6)	2.3	(0.4)	52.2	(1.7)	47.8	(1.7
-	ordan	0.31	(0.01)	13.7	10	7.4	(0.4)	92.6	(0.4)	0.0	С	100.0	С	0.0	
1	Kosovo	0.49	(0.01)	41.4	10	25.6	(8.0)	72.4	(0.9)	2.1	(0.2)	25.6	(0.8)	74.4	3.0)
	Lebanon	0.90	(0.03)	56.8	10	28.6	(1.3)	62.3	(1.4)	9.1	(0.8)	28.6	(1.3)	71.4	(1.3
F	Lithuania	0.37	(0.01)	24.3	9	2.7	(0.2)	86.3	(0.4)	11.0	(0.4)	100.0	(0.0)	0.0	(0.0)
					10	44.9	(0.1)	54.5	(0.1)	0.6	(0.1)	44.9	(0.1)	55.1	(0.1
- 1	Macao (China)	0.82	(0.00)	59.9											
1	Malta	0.82 0.26	(0.00)	12.1	11	6.4	(0.1)	93.6	(0.1)	0.1	(0.0)	0.3	(0.1)	99.7	
1	Malta Moldova	0.82 0.26 0.40	(0.00) (0.01)	12.1 27.4	9	7.9	(0.5)	84.5	(0.8)	7.6	(0.8)	92.4	(0.8)	7.6	(0.
1	Malta Moldova Montenegro	0.82 0.26 0.40 0.37	(0.00) (0.01) (0.00)	12.1 27.4 27.2	9 9	7.9 0.0	(0.5) c	84.5 83.7	(0.8) (0.1)	7.6 16.3	(0.8) (0.1)	92.4 2.6	(0.8) (0.4)	7.6 97.4	(0.4
/ /	Malta Moldova Montenegro Peru	0.82 0.26 0.40 0.37 0.94	(0.00) (0.01) (0.00) (0.01)	12.1 27.4 27.2 65.6	9 9 10	7.9 0.0 25.0	(0.5) c (0.8)	84.5 83.7 50.2	(0.8) (0.1) (0.8)	7.6 16.3 24.8	(0.8) (0.1) (0.8)	92.4 2.6 25.3	(0.8) (0.4) (0.9)	7.6 97.4 74.7	(0.4 (0.4 (0.9)
/ / / / (Malta Moldova Montenegro Peru Qatar	0.82 0.26 0.40 0.37 0.94 0.76	(0.00) (0.01) (0.00) (0.01) (0.00)	12.1 27.4 27.2 65.6 57.1	9 9 10 10	7.9 0.0 25.0 20.7	(0.5) c (0.8) (0.1)	84.5 83.7 50.2 60.7	(0.8) (0.1) (0.8) (0.1)	7.6 16.3 24.8 18.6	(0.8) (0.1) (0.8) (0.1)	92.4 2.6 25.3 20.7	(0.8) (0.4) (0.9) (0.1)	7.6 97.4 74.7 79.3	(0.6 (0.6 (0.6 (0.6)
/ / / H	Malta Moldova Montenegro Peru Qatar Romania	0.82 0.26 0.40 0.37 0.94 0.76 0.54	(0.00) (0.01) (0.00) (0.01) (0.00) (0.01)	12.1 27.4 27.2 65.6 57.1 41.0	9 9 10 10 9	7.9 0.0 25.0 20.7 10.3	(0.5) c (0.8) (0.1) (0.7)	84.5 83.7 50.2 60.7 74.8	(0.8) (0.1) (0.8) (0.1) (0.9)	7.6 16.3 24.8 18.6 14.9	(0.8) (0.1) (0.8) (0.1) (0.7)	92.4 2.6 25.3 20.7 100.0	(0.8) (0.4) (0.9) (0.1)	7.6 97.4 74.7 79.3 0.0	(0.8 (0.2 (0.9 (0.7
// // // // // // // // // // // // //	Malta Moldova Montenegro Peru Qatar Romania Russia	0.82 0.26 0.40 0.37 0.94 0.76 0.54 0.45	(0.00) (0.01) (0.00) (0.01) (0.00) (0.01) (0.02)	12.1 27.4 27.2 65.6 57.1 41.0 34.2	9 9 10 10 9	7.9 0.0 25.0 20.7 10.3 6.8	(0.5) c (0.8) (0.1) (0.7) (0.3)	84.5 83.7 50.2 60.7 74.8 79.7	(0.8) (0.1) (0.8) (0.1) (0.9) (1.5)	7.6 16.3 24.8 18.6 14.9 13.5	(0.8) (0.1) (0.8) (0.1) (0.7) (1.5)	92.4 2.6 25.3 20.7 100.0 86.5	(0.8) (0.4) (0.9) (0.1) c (1.5)	7.6 97.4 74.7 79.3 0.0 13.5	(0.8 (0.4 (0.9 (0.1
// // // // // // // // // // // // //	Malta Moldova Montenegro Peru Qatar Romania Russia Singapore	0.82 0.26 0.40 0.37 0.94 0.76 0.54 0.45	(0.00) (0.01) (0.00) (0.01) (0.00) (0.01) (0.02) (0.02)	12.1 27.4 27.2 65.6 57.1 41.0 34.2 18.4	9 9 10 10 9 9	7.9 0.0 25.0 20.7 10.3 6.8 9.8	(0.5) c (0.8) (0.1) (0.7) (0.3) (1.1)	84.5 83.7 50.2 60.7 74.8 79.7 90.0	(0.8) (0.1) (0.8) (0.1) (0.9) (1.5) (1.0)	7.6 16.3 24.8 18.6 14.9 13.5 0.2	(0.8) (0.1) (0.8) (0.1) (0.7) (1.5) (0.1)	92.4 2.6 25.3 20.7 100.0 86.5 2.0	(0.8) (0.4) (0.9) (0.1) c (1.5) (0.3)	7.6 97.4 74.7 79.3 0.0 13.5 97.9	(0.8 (0.4 (0.9 (0.1 (1.5 (0.3
// // // // // // // // // // // // //	Malta Woldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei	0.82 0.26 0.40 0.37 0.94 0.76 0.54 0.45 0.39	(0.00) (0.01) (0.00) (0.01) (0.00) (0.01) (0.02) (0.02) (0.00)	12.1 27.4 27.2 65.6 57.1 41.0 34.2 18.4 45.7	9 9 10 10 9 9 10	7.9 0.0 25.0 20.7 10.3 6.8 9.8 35.4	(0.5) c (0.8) (0.1) (0.7) (0.3) (1.1) (0.7)	84.5 83.7 50.2 60.7 74.8 79.7 90.0 64.6	(0.8) (0.1) (0.8) (0.1) (0.9) (1.5) (1.0) (0.7)	7.6 16.3 24.8 18.6 14.9 13.5 0.2 0.0	(0.8) (0.1) (0.8) (0.1) (0.7) (1.5) (0.1)	92.4 2.6 25.3 20.7 100.0 86.5 2.0 35.4	(0.8) (0.4) (0.9) (0.1) c (1.5) (0.3) (0.7)	7.6 97.4 74.7 79.3 0.0 13.5 97.9 64.6	(0.8 (0.2 (0.9 (0.1 (1.5 (0.3
// // // // // // // // // // // // //	Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand	0.82 0.26 0.40 0.37 0.94 0.76 0.54 0.45 0.39 0.48	(0.00) (0.01) (0.00) (0.01) (0.00) (0.01) (0.02) (0.02) (0.00) (0.01)	12.1 27.4 27.2 65.6 57.1 41.0 34.2 18.4 45.7 41.1	9 9 10 10 9 9 10 10	7.9 0.0 25.0 20.7 10.3 6.8 9.8 35.4 24.6	(0.5) C (0.8) (0.1) (0.7) (0.3) (1.1) (0.7) (1.0)	84.5 83.7 50.2 60.7 74.8 79.7 90.0 64.6 72.9	(0.8) (0.1) (0.8) (0.1) (0.9) (1.5) (1.0) (0.7) (1.0)	7.6 16.3 24.8 18.6 14.9 13.5 0.2 0.0 2.4	(0.8) (0.1) (0.8) (0.1) (0.7) (1.5) (0.1) C (0.4)	92.4 2.6 25.3 20.7 100.0 86.5 2.0 35.4 24.6	(0.8) (0.4) (0.9) (0.1) C (1.5) (0.3) (0.7) (1.0)	7.6 97.4 74.7 79.3 0.0 13.5 97.9 64.6 75.4	(0.8 (0.2 (0.9 (0.1 (1.5 (0.3 (0.7 (1.6
// // // // // // // // // // // // //	Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Irinidad and Tobago	0.82 0.26 0.40 0.37 0.94 0.76 0.54 0.45 0.39 0.48 0.50	(0.00) (0.01) (0.00) (0.01) (0.00) (0.01) (0.02) (0.02) (0.00) (0.01) (0.01)	12.1 27.4 27.2 65.6 57.1 41.0 34.2 18.4 45.7 41.1 59.3	9 9 10 10 9 9 10 10	7.9 0.0 25.0 20.7 10.3 6.8 9.8 35.4 24.6 41.3	(0.5) C (0.8) (0.1) (0.7) (0.3) (1.1) (0.7) (1.0) (0.2)	84.5 83.7 50.2 60.7 74.8 79.7 90.0 64.6 72.9 56.5	(0.8) (0.1) (0.8) (0.1) (0.9) (1.5) (1.0) (0.7) (1.0) (0.3)	7.6 16.3 24.8 18.6 14.9 13.5 0.2 0.0 2.4 2.2	(0.8) (0.1) (0.8) (0.1) (0.7) (1.5) (0.1) C (0.4) (0.2)	92.4 2.6 25.3 20.7 100.0 86.5 2.0 35.4 24.6 41.3	(0.8) (0.4) (0.9) (0.1) c (1.5) (0.3) (0.7) (1.0) (0.2)	7.6 97.4 74.7 79.3 0.0 13.5 97.9 64.6 75.4 58.7	(0.8 (0.2 (0.9 (0.1 (0.1 (0.3 (0.7 (1.6 (0.2
// // // // // // // // // // // // //	Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	0.82 0.26 0.40 0.37 0.94 0.76 0.54 0.45 0.39 0.48 0.50 0.84	(0.00) (0.01) (0.00) (0.01) (0.00) (0.01) (0.02) (0.02) (0.00) (0.01) (0.01)	12.1 27.4 27.2 65.6 57.1 41.0 34.2 18.4 45.7 41.1 59.3 57.5	9 9 10 10 9 9 10 10 10	7.9 0.0 25.0 20.7 10.3 6.8 9.8 35.4 24.6 41.3 34.5	(0.5) c (0.8) (0.1) (0.7) (0.3) (1.1) (0.7) (1.0) (0.2) (1.9)	84.5 83.7 50.2 60.7 74.8 79.7 90.0 64.6 72.9 56.5 60.9	(0.8) (0.1) (0.8) (0.1) (0.9) (1.5) (1.0) (0.7) (1.0) (0.3) (1.7)	7.6 16.3 24.8 18.6 14.9 13.5 0.2 0.0 2.4 2.2 4.6	(0.8) (0.1) (0.8) (0.1) (0.7) (1.5) (0.1) c (0.4) (0.2) (0.4)	92.4 2.6 25.3 20.7 100.0 86.5 2.0 35.4 24.6 41.3 34.5	(0.8) (0.4) (0.9) (0.1) C (1.5) (0.3) (0.7) (1.0) (0.2) (1.9)	7.6 97.4 74.7 79.3 0.0 13.5 97.9 64.6 75.4 58.7 65.5	(0.8 (0.2 (0.9 (0.1 (0.3 (0.3 (0.7 (1.6 (0.2 (1.9 (1.9)
// // // // // // // // // // // // //	Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Funisia United Arab Emirates	0.82 0.26 0.40 0.37 0.94 0.76 0.54 0.45 0.39 0.48 0.50 0.84 0.90 0.78	(0.00) (0.01) (0.00) (0.01) (0.00) (0.01) (0.02) (0.02) (0.00) (0.01) (0.01) (0.01)	12.1 27.4 27.2 65.6 57.1 41.0 34.2 18.4 45.7 41.1 59.3 57.5 60.4	9 9 10 10 9 9 10 10 10 10	7.9 0.0 25.0 20.7 10.3 6.8 9.8 35.4 24.6 41.3 34.5	(0.5) c (0.8) (0.1) (0.7) (0.3) (1.1) (0.7) (1.0) (0.2) (1.9) (0.9)	84.5 83.7 50.2 60.7 74.8 79.7 90.0 64.6 72.9 56.5 60.9 53.4	(0.8) (0.1) (0.8) (0.1) (0.9) (1.5) (1.0) (0.7) (1.0) (0.3) (1.7) (0.8)	7.6 16.3 24.8 18.6 14.9 13.5 0.2 0.0 2.4 2.2 4.6 32.9	(0.8) (0.1) (0.8) (0.1) (0.7) (1.5) (0.1) c (0.4) (0.2) (0.4) (0.8)	92.4 2.6 25.3 20.7 100.0 86.5 2.0 35.4 24.6 41.3 34.5	(0.8) (0.4) (0.9) (0.1) c (1.5) (0.3) (0.7) (1.0) (0.2) (1.9) (0.9)	7.6 97.4 74.7 79.3 0.0 13.5 97.9 64.6 75.4 58.7 65.5 86.5	(0.8 (0.2 (0.9 (0.1 (0.3 (0.3 (0.7 (1.6 (0.2 (0.9 (0.9 (0.9 (0.9 (0.9 (0.9 (0.9 (0.9
// // // // // // // // // // // // //	Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Irinidad and Tobago Tunisia United Arab Emirates Uruguay	0.82 0.26 0.40 0.37 0.94 0.76 0.54 0.45 0.39 0.48 0.50 0.84 0.90 0.78 0.95	(0.00) (0.01) (0.00) (0.01) (0.00) (0.01) (0.02) (0.02) (0.00) (0.01) (0.01) (0.01) (0.01) (0.02)	12.1 27.4 27.2 65.6 57.1 41.0 34.2 18.4 45.7 41.1 59.3 57.5 60.4 56.7	9 9 10 10 9 9 10 10 10 10 10	7.9 0.0 25.0 20.7 10.3 6.8 9.8 35.4 24.6 41.3 34.5 13.7 37.9	(0.5) c (0.8) (0.1) (0.7) (0.3) (1.1) (0.7) (1.0) (0.2) (1.9) (0.9) (1.1)	84.5 83.7 50.2 60.7 74.8 79.7 90.0 64.6 72.9 56.5 60.9 53.4 61.3	(0.8) (0.1) (0.8) (0.1) (0.9) (1.5) (1.0) (0.7) (1.0) (0.3) (1.7) (0.8) (1.2)	7.6 16.3 24.8 18.6 14.9 13.5 0.2 0.0 2.4 2.2 4.6 32.9 0.8	(0.8) (0.1) (0.8) (0.1) (0.7) (1.5) (0.1) c (0.4) (0.2) (0.4) (0.8) (0.1)	92.4 2.6 25.3 20.7 100.0 86.5 2.0 35.4 24.6 41.3 34.5 13.5 37.9	(0.8) (0.4) (0.9) (0.1) c (1.5) (0.3) (0.7) (1.0) (0.2) (1.9) (0.9) (1.1)	7.6 97.4 74.7 79.3 0.0 13.5 97.9 64.6 75.4 58.7 65.5 86.5	(0.8 (0.4 (0.9 (0.1 (1.5 (0.3 (0.7 (1.6 (0.2 (1.9 (0.9 (1.1
// // // // // // // // // // // // //	Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Irinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	0.82 0.26 0.40 0.37 0.94 0.76 0.54 0.45 0.39 0.48 0.50 0.84 0.90 0.78 0.95 0.39	(0.00) (0.01) (0.00) (0.01) (0.00) (0.01) (0.02) (0.02) (0.00) (0.01) (0.01) (0.01) (0.01) (0.02) (0.02)	12.1 27.4 27.2 65.6 57.1 41.0 34.2 18.4 45.7 41.1 59.3 57.5 60.4 56.7	9 9 10 10 9 9 10 10 10 10 10 10	7.9 0.0 25.0 20.7 10.3 6.8 9.8 35.4 24.6 41.3 34.5 13.7 37.9 9.6	(0.5) C (0.8) (0.1) (0.7) (0.3) (1.1) (0.7) (1.0) (0.2) (1.9) (0.9) (1.1) (2.2)	84.5 83.7 50.2 60.7 74.8 79.7 90.0 64.6 72.9 56.5 60.9 53.4 61.3 90.4	(0.8) (0.1) (0.8) (0.1) (0.9) (1.5) (1.0) (0.7) (1.0) (0.3) (1.7) (0.8) (1.2) (2.2)	7.6 16.3 24.8 18.6 14.9 13.5 0.2 0.0 2.4 2.2 4.6 32.9 0.8	(0.8) (0.1) (0.8) (0.1) (0.7) (1.5) (0.1) c (0.4) (0.2) (0.4) (0.8) (0.1) (0.0)	92.4 2.6 25.3 20.7 100.0 86.5 2.0 35.4 24.6 41.3 34.5 13.5 37.9 9.1	(0.8) (0.4) (0.9) (0.1) c (1.5) (0.3) (0.7) (1.0) (0.2) (1.9) (0.9) (1.1) (2.1)	7.6 97.4 74.7 79.3 0.0 13.5 97.9 64.6 75.4 58.7 65.5 86.5 62.1 90.9	(0.8 (0.4 (0.9 (0.1 (1.5 (0.3 (0.7 (1.6 (0.2 (1.9 (0.9 (1.1 (2.1
// // // // // // // // // // // // //	Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Irinidad and Tobago Tunisia United Arab Emirates Uruguay	0.82 0.26 0.40 0.37 0.94 0.76 0.54 0.45 0.39 0.48 0.50 0.84 0.90 0.78 0.95	(0.00) (0.01) (0.00) (0.01) (0.00) (0.01) (0.02) (0.02) (0.00) (0.01) (0.01) (0.01) (0.01) (0.02)	12.1 27.4 27.2 65.6 57.1 41.0 34.2 18.4 45.7 41.1 59.3 57.5 60.4 56.7	9 9 10 10 9 9 10 10 10 10 10	7.9 0.0 25.0 20.7 10.3 6.8 9.8 35.4 24.6 41.3 34.5 13.7 37.9	(0.5) c (0.8) (0.1) (0.7) (0.3) (1.1) (0.7) (1.0) (0.2) (1.9) (0.9) (1.1)	84.5 83.7 50.2 60.7 74.8 79.7 90.0 64.6 72.9 56.5 60.9 53.4 61.3	(0.8) (0.1) (0.8) (0.1) (0.9) (1.5) (1.0) (0.7) (1.0) (0.3) (1.7) (0.8) (1.2)	7.6 16.3 24.8 18.6 14.9 13.5 0.2 0.0 2.4 2.2 4.6 32.9 0.8	(0.8) (0.1) (0.8) (0.1) (0.7) (1.5) (0.1) c (0.4) (0.2) (0.4) (0.8) (0.1)	92.4 2.6 25.3 20.7 100.0 86.5 2.0 35.4 24.6 41.3 34.5 13.5 37.9	(0.8) (0.4) (0.9) (0.1) c (1.5) (0.3) (0.7) (1.0) (0.2) (1.9) (0.9) (1.1)	7.6 97.4 74.7 79.3 0.0 13.5 97.9 64.6 75.4 58.7 65.5 86.5	(0.1 (0.8 (0.4 (0.9 (0.1 (1.5 (0.3 (0.7 (1.0 (0.2 (1.9 (0.9 (1.1 (2.1

^{1.} Probability (in %) that two students selected at random are enrolled in different grade levels (100 – Herfindahl index).
* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/1]

Table II.5.9 Grade repetition

								Percent	tage of	studen	ts who	had re	peated	a grade	in:					
			Primary	schoo	ī			Low	er secor	ndary so	hool			Uppe	er secor	ndary so	chool		At leas	
	Ne	ver	Or	псе	Tw or n		Ne	ver	Or	ıce	Tw or n		Ne	ver	On	ice	Tw or n		in prima secondary secondar	or upp
	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Australia	93.7	(0.3)	6.0	(0.3)	0.3	(0.1)	98.8	(0.1)	1.0	(0.1)	0.2	(0.0)	99.9	(0.0)	0.0	(0.0)	0.0	(0.0)	7.1	(0.3
Austria	94.0	(0.4)	5.9	(0.4)	0.1	(0.0)	95.6	(0.4)	4.2	(0.4)	0.3	(0.1)	93.6	(0.4)	6.2	(0.4)	0.2	(0.1)	15.2	(0.7
Belgium	80.5	(0.7)	17.5	(0.6)	2.0	(0.2)	85.4	(0.7)	13.8	(0.6)	0.9	(0.2)	91.6	(0.4)	8.2	(0.4)	0.2	(0.1)	34.0	(0.8
Canada	96.6	(0.3)	3.1	(0.2)	0.3	(0.1)	97.2	(0.2)	2.4	(0.2)	0.4	(0.1)	99.2	(0.1)	0.6	(0.1)	0.2	(0.0)	5.7	(0.4
Chile	85.5	(0.8)	12.0	(0.5)	2.5	(0.5)	93.2	(0.5)	5.6	(0.4)	1.2	(0.3)	92.5	(0.5)	7.4	(0.5)	0.1	(0.0)	24.6	(0.9
Czech Republic	97.7	(0.3)	1.9	(0.2)	0.4	(0.1)	97.0	(0.3)	2.8	(0.3)	0.3	(0.1)	m	m	m	m	m	m	4.8	(0.4
Denmark Estonia	97.1	(0.2)	2.7	(0.2)	0.3	(0.1)	99.3	(0.1)	0.5	(0.1)	0.2	(0.1)	100.0	C	0.0	C	0.0	C	3.4 4.0	(0.3
Finland	97.1	(0.3)	2.3	(0.3)	0.6	(0.1)	99.3	(0.2)	1.3 0.5	(0.2)	0.4	(0.1)	100 0	m	0.0	m	m 0.0	m	3.0	(0.4
France	87.2	(0.2)	12.3	(0.2)	0.3	(0.1)	89.3	(0.1)	10.1	(0.1)	0.2	(0.1)	100.0 99.4	(0.1)	0.5	(0.1)	0.0	(0.1)	22.1	(0.2
Germany	90.8	(0.6)	8.8	(0.6)	0.4	(0.1)	89.4	(0.6)	10.1	(0.6)	0.6	(0.1)	99.4 m	(0.1) m	m	(0.1) m	m	(0.1) m	18.1	(0.0
Greece	98.0	(0.3)	1.2	(0.0)	0.4	(0.1)	95.9	(0.6)	2.8	(0.5)	1.3	(0.1)	m	m	m	m	m	m	5.0	(0.7
Hungary	95.1	(0.5)	4.2	(0.5)	0.7	(0.2)	95.0	(0.5)	4.5	(0.5)	0.5	(0.1)	97.7	(0.3)	2.0	(0.2)	0.3	(0.1)	9.5	(0.0
Iceland	99.2	(0.2)	0.4	(0.1)	0.4	(0.1)	99.2	(0.1)	0.3	(0.1)	0.4	(0.1)	m	m	m	m	m	m	1.1	(0.2
Ireland	93.6	(0.4)	6.3	(0.4)	0.1	(0.0)	99.1	(0.1)	0.9	(0.1)	0.0	(0.0)	99.9	(0.0)	0.1	(0.0)	0.0	С	7.2	(0.5
Israel	96.1	(0.4)	2.9	(0.3)	0.9	(0.1)	94.2	(0.4)	4.3	(0.3)	1.5	(0.2)	95.7	(0.4)	2.7	(0.3)	1.6	(0.2)	9.0	(0.6
Italy	98.5	(0.1)	1.2	(0.2)	0.4	(0.1)	94.2	(0.5)	4.9	(0.4)	0.9	(0.2)	90.5	(0.6)	9.1	(0.6)	0.4	(0.1)	15.1	(0.6
Japan	m	(0.2)	m	(0.2)	m	m	m	(0.5)	m	m	m	(0.2)	m	(0.0) m	m	(0.0) m	m	m	0.0	(0.0
Korea	95.7	(0.3)	2.6	(0.2)	1.7	(0.2)	95.9	(0.3)	2.6	(0.2)	1.5	(0.2)	97.0	(0.2)	2.1	(0.2)	0.8	(0.2)	4.7	(0.3
Latvia	96.5	(0.3)	2.9	(0.3)	0.6	(0.2)	98.0	(0.3)	1.7	(0.2)	0.4	(0.1)	100.0	(0.0)	0.0	(O.2)	0.0	(O.2)	5.0	(0.
Luxembourg	83.8	(0.4)	14.6	(0.4)	1.6	(0.2)	81.3	(0.5)	17.5	(0.5)	1.2	(0.2)	99.4	(0.1)	0.3	(0.1)	0.3	(0.1)	30.9	(0.
Mexico	87.8	(0.8)	10.9	(0.7)	1.3	(0.2)	95.8	(0.5)	3.9	(0.5)	0.3	(0.1)	99.4	(0.1)	0.5	(0.1)	0.0	(0.0)	15.8	(0.9
Netherlands	85.5	(0.5)	14.2	(0.5)	0.3	(0.1)	93.2	(0.4)	6.7	(0.4)	0.1	(0.1)	99.9	(0.0)	0.1	(0.0)	0.0	С	20.1	(0.5
New Zealand	96.2	(0.3)	3.6	(0.3)	0.3	(0.1)	98.2	(0.2)	1.5	(0.2)	0.3	(0.1)	99.6	(0.1)	0.3	(0.1)	0.1	(0.1)	4.9	(0.3
Norway	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	0.0	
Poland	97.8	(0.3)	1.8	(0.2)	0.4	(0.1)	96.4	(0.3)	3.3	(0.3)	0.2	(0.1)	m	m	m	m	m	m	5.3	(0.4
Portugal	83.2	(0.9)	11.4	(0.7)	5.4	(0.4)	78.5	(1.0)	16.9	(0.8)	4.6	(0.4)	99.8	(0.1)	0.1	(0.1)	0.1	(0.0)	31.2	(1.2
Slovak Republic	95.8	(0.4)	3.1	(0.3)	1.1	(0.2)	96.5	(0.3)	2.5	(0.3)	1.0	(0.2)	99.7	(0.1)	0.1	(0.0)	0.3	(0.1)	6.5	(0.
Slovenia	m	m	m	m	m	m	98.3	(0.3)	1.5	(0.3)	0.2	(0.1)	99.6	(0.1)	0.2	(0.1)	0.2	(0.1)	1.9	(0.
Spain	87.2	(0.6)	12.0	(0.6)	0.7	(0.1)	73.4	(1.0)	24.4	(0.8)	2.2	(0.3)	m	m	m	m	m	m	31.3	(1.0
Sweden	97.0	(0.3)	2.7	(0.3)	0.3	(0.1)	98.0	(0.2)	1.6	(0.2)	0.3	(0.1)	100.0	(0.0)	0.0	(0.0)	0.0	С	4.0	(0.
Switzerland	86.2	(0.9)	13.2	(0.8)	0.6	(0.1)	91.9	(0.6)	7.6	(0.6)	0.4	(0.1)	99.8	(0.1)	0.2	(0.1)	0.0	(0.0)	20.0	(1.0
Turkey	96.7	(0.3)	3.0	(0.3)	0.3	(0.1)	98.5	(0.2)	1.2	(0.2)	0.3	(0.1)	92.1	(0.6)	7.7	(0.5)	0.2	(0.1)	10.9	(0.2
United Kingdom	97.9	(0.2)	1.8	(0.2)	0.3	(0.1)	99.2	(0.1)	0.6	(0.1)	0.2	(0.1)	99.2	(0.2)	0.6	(0.1)	0.3	(0.1)	2.8	(0.3
United States	91.1	(0.7)	8.6	(0.6)	0.3	(0.1)	96.8	(0.3)	2.9	(0.3)	0.4	(0.1)	98.7	(0.2)	1.1	(0.1)	0.1	(0.1)	11.0	(0.8
OECD average	93.0	(0.1)	6.2	(0.1)	0.8	(0.0)	94.2	(0.1)	5.0	(0.1)	0.7	(0.0)	97.9	(0.0)	1.9	(0.0)	0.2	(0.0)	11.3	(0.
Albania	98.7	(0.2)	1.0	(0.2)	0.4	(0.1)	98.4	(0.3)	1.3	(0.3)	0.3	(0.1)	99.4	(0.1)	0.3	(0.1)	0.3	(0.1)	2.6	(0.3
Algeria	64.5	(1.9)	28.1	(1.4)	7.4	(0.6)	37.5	(2.2)	42.7	(1.6)	19.8	(1.2)	98.4	(0.2)	1.5	(0.2)	0.2	(0.1)	68.5	(2.
Brazil	79.7	(0.7)	15.9	(0.5)	4.5	(0.3)	79.9	(0.6)	14.9	(0.5)	5.2	(0.3)	93.5	(0.3)	6.2	(0.3)	0.3	(0.1)	36.4	(0.
B-S-J-G (China)	80.5	(1.2)	17.7	(1.0)	1.8	(0.2)	97.7	(0.3)	2.0	(0.3)	0.3	(0.1)	100.0	(0.0)	0.0	(0.0)	0.0	С	20.8	(1.2
Bulgaria	98.1	(0.3)	1.1	(0.2)	0.9	(0.1)	96.5	(0.5)	2.8	(0.5)	0.8	(0.1)	98.5	(0.2)	0.6	(0.1)	0.9	(0.2)	4.8	(0.0
CABA (Argentina)	93.0	(1.1)	6.3	(1.0)	0.7	(0.2)	85.4	(2.1)	12.9	(1.8)	1.8	(0.7)	100.0	С	0.0	C	0.0	С	19.1	(2.2
Colombia	77.0	(0.9)	18.5	(0.8)	4.5	(0.3)	69.4	(0.9)	22.1	(0.6)	8.5	(0.5)	97.4	(0.3)	2.5	(0.3)	0.1	(0.0)	42.6	(1.0
Costa Rica	84.0	(0.9)	12.6	(0.8)	3.4	(0.3)	76.2	(1.4)	18.5	(1.0)	5.3	(0.6)	99.7	(0.1)	0.3	(0.1)	0.0	(0.0)	31.4	(1.4
Croatia	99.8	(0.1)	0.2	(0.1)	0.1	(0.0)	99.3	(0.2)	0.6	(0.2)	0.1	(0.0)	99.0	(0.2)	1.0	(0.1)	0.1	(0.0)	1.6	(0
Cyprus*	96.9	(0.2)	2.1	(0.2)	1.0	(0.1)	97.3	(0.2)	1.7	(0.2)	1.1	(0.1)	98.3	(0.2)	0.7	(0.1)	1.0	(0.1)	4.7	(0
Dominican Republic	73.0	(1.2)	21.1	(0.9)	5.9	(0.6)	87.2	(0.9)	10.4	(0.7)	2.4	(0.4)	93.9	(0.6)	5.3	(0.6)	0.8	(0.1)	33.9	(1
FYROM	98.8	(0.2)	1.0	(0.1)	0.2	(0.1)	97.9	(0.2)	1.7	(0.2)	0.4	(0.1)	97.9	(0.2)	1.0	(0.1)	1.1	(0.2)	3.1	(0
Georgia	99.1	(0.2)	0.7	(0.1)	0.2	(0.1)	99.2	(0.2)	0.7	(0.2)	0.2	(0.1)	99.2	(0.2)	0.5	(0.1)	0.3	(0.1)	1.5	(0
Hong Kong (China)	89.8	(0.6)	9.5	(0.6)	0.7	(0.1)	91.5	(0.5)	7.8	(0.5)	0.7	(0.1)	99.7	(0.1)	0.2	(0.1)	0.1	(0.1)	17.2	(0.
Indonesia	84.5	(1.1)	13.6	(0.9)	1.9	(0.3)	96.8	(0.3)	2.8	(0.3)	0.4	(0.1)	98.8	(0.3)	1.2	(0.3)	0.1	(0.0)	16.2	(1.
Jordan Kosovo	95.2	(0.3)	3.9	(0.3)	0.8	(0.1)	93.9	(0.4)	5.0	(0.4)	1.1	(0.2)	98.6	(0.2)	m 0.6	(0.1)	m 0.8	m (0.2)	7.6 3.8	(0
Laborate	96.8	(0.4)	1.9	(0.3)	1.4	(0.2)	82.8	(0.4)	1.6	(0.3)	1.1 2.4	(0.2)	96.0	(0.2)	2.5	(0.1)	1.5	(0.2)	26.5	(1.
Lithuania	98.2	(0.9)	1.3	(0.7)	0.5	(0.3)	98.8	(0.2)	0.8	(1.0)	0.4	(0.4)	96.0 m	(0.7) m	2.3 m	(U.4)	m	(U.5)	2.5	(0.2
Macao (China)	80.1	(0.2)	15.7	(0.2)	4.2	(0.1)	79.4	(0.4)	18.2	(0.1)	2.5	(0.1)	99.6	(0.1)	0.4	(0.1)	0.1	(0.0)	33.8	(0.4
Malta	94.8	(0.3)	4.7	(0.3)	0.5	(0.1)	98.3	(0.4)	1.5	(0.2)	0.3	(0.1)	98.6	(0.1)	0.9	(0.1)	0.5	(0.0)	7.0	(0.
Moldova	97.9	(0.2)	1.7	(0.2)	0.4	(0.1)	98.2	(0.2)	1.1	(0.1)	0.7	(0.1)	99.9	(0.1)	0.0	(0.0)	0.3	(0.0)	3.0	(0
Montenegro	99.0	(0.1)	0.4	(0.1)	0.5	(0.1)	99.1	(0.1)	0.6	(0.1)	0.3	(0.1)	99.1	(0.1)	0.4	(0.1)	0.5	(0.1)	1.6	(0
Peru	84.1	(0.7)	13.6	(0.6)	2.4	(0.2)	86.1	(0.6)	11.3	(0.5)	2.6	(0.2)	99.0	(0.1)	0.9	(0.1)	0.1	(0.0)	25.6	(0.
Qatar	90.6	(0.3)	7.3	(0.3)	2.1	(0.1)	87.8	(0.2)	9.3	(0.2)	2.8	(0.2)	96.1	(0.2)	2.4	(0.1)	1.6	(0.1)	17.4	(0.
Romania	96.1	(0.4)	3.1	(0.4)	0.7	(0.1)	96.3	(0.4)	3.1	(0.3)	0.6	(0.1)	100.0	(O.2)	0.0	(O.1)	0.0	(O.17)	5.9	(0.
Russia	99.0	(0.1)	0.8	(0.1)	0.2	(0.1)	99.2	(0.2)	0.6	(0.2)	0.2	(0.1)	m	m	m	m	m	m	1.5	(0.2
Singapore	97.4	(0.2)	2.3	(0.2)	0.3	(0.1)	98.5	(0.3)	1.2	(0.2)	0.3	(0.1)	98.1	(0.2)	1.7	(0.2)	0.2	(0.0)	5.4	(0.
Chinese Taipei	99.6	(0.1)	0.3	(0.1)	0.1	(0.0)	99.8	(0.0)	0.1	(0.0)	0.1	(0.0)	99.9	(0.0)	0.1	(0.0)	0.0	(0.0)	0.6	(0.
Thailand	95.5	(0.3)	4.2	(0.3)	0.3	(0.1)	95.9	(0.4)	3.8	(0.4)	0.3	(0.1)	97.8	(0.3)	2.1	(0.3)	0.1	(0.0)	6.0	(0.4
Trinidad and Tobago	68.3	(0.6)	27.7	(0.6)	4.0	(0.3)	95.3	(0.4)	3.8	(0.4)	0.8	(0.2)	99.5	(0.2)	0.4	(0.1)	0.1	(0.1)	33.4	(0.5
Tunisia	86.5	(1.0)	10.2	(0.8)	3.3	(0.3)	70.8	(1.5)	23.8	(1.3)	5.4	(0.5)	98.6	(0.2)	1.3	(0.2)	0.1	(0.0)	34.3	(1.3
United Arab Emirates	91.9	(0.4)	7.1	(0.3)	1.0	(0.1)	94.5	(0.4)	4.5	(0.3)	1.0	(0.1)	97.8	(0.2)	1.3	(0.2)	0.8	(0.1)	11.8	(0.5
Uruguay	80.1	(0.8)	16.2	(0.7)	3.6	(0.3)	74.7	(0.9)	18.7	(0.7)	6.6	(0.4)	99.8	(0.1)	0.2	(0.1)	0.0	С	35.3	(1.
Viet Nam	96.0	(0.9)	3.5	(0.8)	0.5	(0.2)	96.0	(1.0)	3.6	(0.9)	0.4	(0.1)	99.7	(0.1)	0.3	(0.1)	0.1	(0.0)	7.2	(1.0
	86.4	(1.0)	11.5	(0.8)	2.1	(0.4)	80.2	(1.0)	17.1	(0.9)	2.7	(0.3)	98.6	(0.2)	1.2	(0.2)	0.2	(0.1)	28.9	(1
Argentina**																				
Argentina** Kazakhstan**	98.8	(0.2)	1.0	(0.2)	0.1	(0.0)	99.1	(0.2)	0.8	(0.2)	0.1	(0.1)	88.4	(3.8)	6.8	(2.9)	4.9	(2.3)	1.9	(0.

^{1.} The questions on grade repetition were not administered in Japan and Norway. A value of zero has been set in agreement with countries since there is a policy of automatic grade progression.

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

*StatLink 編章 http://dx.doi.org/10.1787/888933436509



[Part 1/1]

Table II.5.11 Change between 2009 and 2015 in grade repetition

Results based on students' self-reports

		(Change	betwe	en 200	9 and 2	015 (F	PISA 20	15 - PI	SA 200	9) in th	e perc	entage	of stud	ents wl	no repo	orted th	nat they	had re	peated a gra	ıde in:
				Primar	y schoo	I			Lowe	er secoi	ndary so	chool			Upp	er seco	ndary so	chool		At leas	
		Ne	ever	Oı	nce		rice nore	Ne	ver	Oı	nce		ice nore	Ne	ver	Oı	ıce		rice nore	in prima secondary secondar	or upper
		% dif.	S.E.	% dif.	S.E.	% dif.	S.E.	% dif.	S.E.	% dif.	S.E.	% dif.	S.E.	% dif.	S.E.	% dif.	S.E.	% dif.	S.E.	% dif.	S.E.
C .	Australia Austria	1.0	(0.4)	-1.1	(0.4)	0.1	(0.1)	0.2	(0.2)	-0.3	(0.2)	0.1	(0.1)	0.1	(0.0)	-0.1	(0.0)	0.0	(0.0)	-2.4	(0.5)
O.E.	Belgium	-1.1	m (0.9)	1.2	m (0.8)	-0.2	m (0.3)	0.4	m (0.9)	-0.1	m (0.9)	-0.3	m (0.2)	m 1.5	m (0.6)	-1.4	m (0.6)	-0.1	m (0.1)	0.0	m (1.1)
	Canada	1.0	(0.4)	-1.1	(0.4)	0.1	(0.1)	1.5	(0.3)	-1.6	(0.3)	0.0	(0.1)	-0.1	(0.1)	0.1	(0.1)	0.1	(0.1)	-2.8	(0.5)
	Chile	-4.1	(1.1)	3.7	(0.8)	0.5	(0.6)	0.5	(0.8)	-0.3	(0.6)	-0.2	(0.4)	3.2	(0.8)	-2.9	(0.7)	-0.4	(0.1)	0.7	(1.3)
	Czech Republic Denmark	-0.2 0.7	(0.4)	0.0 - 0.9	(0.3)	0.2 0.2	(0.1)	-0.7	(0.4)	-0.3	(0.4)	0.0	(0.1)	0.1	m (0.1)	0.0	m (0.0)	-0.1	m (0.1)	0.9 -1.7	(0.5)
	Estonia	1.0	(0.5)	-0.9	(0.5)	-0.1	(0.2)	0.8	(0.5)	-1.0	(0.5)	0.2	(0.1)	m	m	m	m	m	m	-1.6	(0.7)
	Finland	-0.2	(0.3)	-0.1	(0.3)	0.2	(0.1)	-0.3 12.8	(0.1)	0.1	(0.1)	0.2	(0.1)	0.0	(O 2)	0.0	(O, 2)	0.0	(O 1)	0.1	(0.4)
	France Germany	5.0 0.0	(1.1)	-4.8 0.1	(1.0)	-0.2	(0.2)	3.7	(1.3)	-12.9 -3.5	(1.3)	-0.2	(0.2)	0.5 m	(0.2) m	-0.5	(0.2) m	0.0 m	(0.1) m	-16.1 -1.1	(1.2)
	Greece	0.0	(0.5)	-0.7	(0.4)	0.7	(0.2)	0.1	(1.0)	-0.7	(1.0)	0.6	(0.3)	m	m	m	m	m	m	-0.9	(1.1)
	Hungary	1.3	(1.0)	-1.2	(0.9)	-0.1	(0.3)	0.8	(1.0)	-0.1	(0.8)	-0.7	(0.3)	0.1	(0.4)	0.0	(0.3)	-0.1	(0.1)	-1.8	(1.4)
	Iceland Ireland	-0.1 4.7	(0.2)	-0.1	(0.2)	0.2 -0.2	(0.1)	-0.3 0.8	(0.2)	0.1 -0.8	(0.1)	0.2	(0.1)	0.1	m (0.1)	-0.1	m (0.1)	0.0	m c	0.2 -4.6	(0.2)
	Israel	0.4	(0.5)	-0.6	(0.4)	0.2	(0.2)	-0.9	(0.6)	0.5	(0.5)	0.3	(0.2)	-0.6	(0.5)	0.1	(0.4)	0.5	(0.3)	1.1	(0.8)
	Italy	-0.5	(0.3)	0.3	(0.2)	0.2	(0.1)	-1.2	(0.6)	0.7	(0.5)	0.4	(0.2)	2.2	(0.7)	-2.3	(0.7)	0.2	(0.1)	-1.1	(0.8)
	Japan Korea	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m
	Latvia	2.5	(0.7)	-2.4	(0.6)	-0.1	(0.2)	4.0	(0.9)	-3.3	(0.8)	-0.7	(0.3)	1.5	(0.3)	-0.7	(0.1)	-0.8	(0.3)	-15.2	(1.6)
	Luxembourg	6.0	(0.6)	-4.4	(0.6)	-1.6	(0.4)	1.5	(0.7)	-1.9	(0.7)	0.4	(0.2)	1.4	(0.2)	-1.2	(0.2)	-0.2	(0.1)	-8.7	(0.7)
	Mexico Netherlands	5.0 7.9	(1.1)	-4.4 -7.4	(1.0)	-0.6 -0.5	(0.3)	1.7	(0.6)	-1.5 1.4	(0.6)	-0.1 0.1	(0.1)	0.6	(0.2)	-0.4 -0.5	(0.2)	-0.2 0.0	(0.1) C	-10.8 -7.2	(1.3)
	New Zealand	0.1	(0.4)	0.0	(0.4)	-0.1	(0.1)	-0.1	(0.3)	0.0	(0.3)	0.1	(0.1)	0.5	(0.1)	-0.4	(0.1)	-0.1	(0.1)	-0.4	(0.4)
	Norway	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Poland Portugal	-0.3 5.6	(0.4)	0.2 -5.8	(0.3)	0.1	(0.1)	-0.6	(0.5)	-0.1 -1.1	(0.5)	-0.3	(0.2)	m 1.7	m (0.3)	-1.3	m (0.2)	-0.4	m (0.1)	0.0 -5.8	(0.6)
	Slovak Republic	-2.3	(0.5)	1.6	(0.4)	0.7	(0.3)	-1.5	(0.5)	0.9	(0.4)	0.6	(0.2)	-0.1	(0.1)	-0.1	(0.1)	0.2	(0.1)	1.5	(0.8)
	Slovenia	m	m	m	m	m	m	-0.3	(0.5)	0.2	(0.5)	0.1	(0.1)	m	m	m	m	m	m	0.4	(0.5)
	Spain Sweden	-0.5 0.8	(0.7)	0.5 -1.0	(0.7)	0.1	(0.1)	5.3 -0.6	(1.2)	-4.3 0.5	(1.1)	-1.0 0.0	(0.4)	0.2	m (0.1)	0.0	m (0.1)	-0.2	m (0.1)	-3.8 -2.3	(1.2)
	Switzerland	1.1	(1.1)	-1.2	(1.1)	0.1	(0.1)	1.2	(0.8)	-1.4	(0.8)	0.0	(0.1)	1.1	(0.1)	-0.9	(0.1)	-0.2	(0.1)	-5.5	(1.4)
	Turkey	0.4	(0.6)	-0.6	(0.6)	0.2	(0.1)	m	m	m	m	m	m	2.7	(1.0)	-2.8	(1.0)	0.1	(0.1)	-2.0	(1.1)
	United Kingdom United States	-0.5 2.3	(0.3)	0.4 -2.0	(0.2)	-0.3	(0.1)	0.0	(0.2)	0.0 -1.1	(0.1)	0.0	(0.1)	-0.1 0.3	(0.2)	-0.3	(0.2)	0.0	(0.1)	0.5 -3.5	(0.3)
			(0.1)	-1.2	(0.1)	0.0	(0.2)			-1.0	(0.1)	0.2	(0.0)			-0.5	(0.2)	-0.1	(0.0)	-3.3	(0.2)
	OECD average	1.2						1.0	(0.1)					0.6	(0.1)						
ers	Albania	1.6 m	(0.5) m	-1.3 m	(0.4) m	-0.3 m	(0.2) m	0.9 m	(0.5) m	-0.7 m	(0.4) m	-0.2 m	(0.1) m	1.7 m	(0.4) m	-1.3 m	(0.4) m	-0.4 m	(0.2) m	-4.6 m	(0.8) m
Partners	Algeria Brazil	0.7	(1.0)	-0.5	(0.8)	-0.2	(0.4)	5.6	(1.0)	-3.7	(0.8)	-1.9	(0.5)	1.7	(0.5)	-1.5	(0.5)	-0.2	(0.1)	-5.9	(1.2)
· .	B-S-J-G (China)	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Bulgaria	0.8	(0.4) m	-1.0 m	(0.3) m	0.2 m	(0.2) m	0.5 m	(0.7) m	-0.5 m	(0.6) m	-0.1 m	(0.2) m	0.0 m	(0.3) m	-0.3 m	(0.2) m	0.3 m	(0.2) m	-1.2 m	(0.8) m
	CABA (Argentina) Colombia	-0.9	(1.4)	0.1	(1.2)	0.8	(0.5)	-12.4	(1.2)	7.3	(0.9)	5.1	(0.6)	0.4	(0.4)	0.0	(0.4)	-0.4	(0.1)	4.8	(1.6)
	Costa Rica	2.2	(1.4)	-1.1	(1.1)	-1.1	(0.6)	2.9	(1.9)	-2.8	(1.5)	-0.1	(0.7)	1.2	(0.3)	-0.6	(0.2)	-0.6	(0.2)	-10.4	(2.3)
	Croatia	1.0	(0.2)	-1.0	(0.2)	0.0	(0.0)	0.7	(0.2)	-0.8	(0.2)	0.0	(0.0)	1.3	(0.3)	-1.3	(0.3)	0.0	(0.0)	-1.3	(0.3)
	Cyprus* Dominican Republic	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m
	FYROM	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Georgia	1.0	(0.3)	-0.6	(0.2)	-0.4 -0.2	(0.1)	0.0 -2.2	(0.2)	0.0	(0.2)	0.0	(0.1)	1.3	(0.3)	-0.6	(0.2)	-0.7	(0.2)	-2.2 0.9	(0.4)
	Hong Kong (China) Indonesia	0.2	(1.6)	-1.3	(1.4)	0.3	(0.4)	2.9	(0.7)	1.9	(0.6)	0.3	(0.1)	-0.1 3.5	(0.1)	0.0 -2.9	(0.7)	0.1 -0.6	(0.1)	-19.2	(1.0)
	Jordan	-0.9	(0.5)	0.9	(0.4)	0.0	(0.2)	-1.2	(0.6)	1.2	(0.5)	0.0	(0.3)	m	m	m	m	m	m	1.2	(0.7)
	Kosovo Lebanon	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m	m m	m m	m m	m m	m m	m m
	Lithuania	0.2	(0.4)	-0.6	(0.3)	0.3	(0.1)	1.0	(0.3)	-1.2	(0.3)	0.2	(0.1)	m	m m	m	m	m	m	-1.3	(0.5)
	Macao (China)	3.3	(0.7)	-1.8	(0.7)	-1.5	(0.3)	11.7	(0.7)	-8.6	(0.7)	-3.1	(0.3)	0.1	(0.1)	0.0	(0.1)	-0.1	(0.1)	-12.8	(0.6)
	Malta	5.6	(0.5)	-5.6	(0.5)	0.0	(0.2)	2.5	(0.4)	-2.3	(0.3)	-0.3	(0.2)	-0.2	(0.3)	0.3	(0.2)	0.0	(0.2)	-12.7	(0.6)
	Moldova Montenegro	-0.4	(0.4)	-0.2 -0.1	(0.3)	-0.5 0.4	(0.2)	0.4	(0.3) (0.4)	-0.3 -0.5	(0.2) (0.4)	-0.1 0.2	(0.2)	1.2 -0.4	(0.2)	-0.9 -0.1	(0.1)	-0.3 0.4	(0.1)	-2.0 -0.3	(0.5)
	Peru	4.7	(1.2)	-3.5	(1.0)	-1.2	(0.4)	-2.3	(1.0)	2.4	(0.9)	-0.1	(0.4)	2.1	(0.4)	-1.0	(0.3)	-1.1	(0.2)	-4.3	(1.6)
	Qatar Romania	-0.7 -1.5	(0.4)	-0.1 1.3	(0.3)	0.8	(0.2)	-4.5 -1.0	(0.4)	3.0 0.8	(0.3)	1.5 0.2	(0.2)	0.2 m	(0.3) m	-0.2 m	(0.2) m	0.0 m	(0.2) m	1.9 1.7	(0.4)
	Russia	1.3	(0.6)	-1.4	(0.3)	0.2	(0.2)	0.5	(0.7)	-0.7	(0.6)	0.2	(0.2)	m	m	m	m	m	m m	-1.8	(0.8)
	Singapore	-0.3	(0.3)	0.3	(0.3)	-0.1	(0.1)	0.2	(0.3)	-0.3	(0.3)	0.1	(0.1)	0.1	(0.3)	-0.2	(0.2)	0.1	(0.1)	0.0	(0.6)
	Chinese Taipei Thailand	-2.1	(0.1)	-0.4 1.8	(0.1)	-0.1 0.3	(0.1)	-2.8	(0.2)	2.5	(0.1)	0.3	(0.1)	-1.9	(0.1)	-0.1 1.9	(0.1)	- 0.2 0.0	(0.1)	-1.4 0.9	(0.3)
	Trinidad and Tobago	-4.3	(0.4)	3.5	(0.4)	0.8	(0.1)	-2.8	(0.4)	1.5	(0.4)	0.3	(0.1)	0.8	(0.3)	-0.5	(0.3)	-0.3	(0.0)	2.4	(0.6)
	Tunisia	9.7	(1.5)	-7.9	(1.3)	-1.7	(0.5)	3.6	(1.9)	-1.8	(1.5)	-1.7	(0.7)	1.9	(0.4)	-1.0	(0.3)	-0.9	(0.2)	-10.0	(2.1)
	United Arab Emirates	-0.1	(0.6)	0.0	(0.5)	0.1	(0.2)	1.3	(0.6)	-1.3	(0.5)	-0.1	(0.2)	-0.9	(0.3)	0.3	(0.2)	0.6	(0.1)	-2.5	(0.9)
	Uruguay Viet Nam	1.4 m	(1.2) m	-0.8 m	(1.0) m	-0.6 m	(0.4) m	0.5 m	(1.3) m	-1.7 m	(1.0) m	1.3 m	(0.6) m	0.6 m	(0.1) m	-0.6	(0.1) m	0.0 m	c m	-2.9 m	(1.5) m
	Argentina**	2.3	(1.4)	0.2	(1.1)	-2.5	(0.6)	4.2	(1.9)	-1.3	(1.5)	-2.9	(0.8)	3.5	(0.5)	-2.9	(0.4)	-0.6	(0.2)	-8.6	(2.2)
	Kazakhstan**	0.3	(0.2)	-0.3	(0.2)	0.0	(0.1)	-0.2	(0.2)	0.2	(0.2)	0.0	(0.1)	m	(0.5) m	m	m	m	m	0.2	(0.3)
	Malaysia**		m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m

Notes: Values that are statistically significant are indicated in bold (see Annex A3).
For Costa Rica, Georgia, Malta and Moldova, the change between the PISA 2009 and PISA 2015 assessments represents change between 2010 and 2015 because these countries implemented the PISA 2009 assessment in 2010 as part of PISA 2009+.
*See note at the beginning of this Annex.
** Coverage is too small to ensure comparability (see Annex A4).
StatLink *** Interpretation of the properties of th



[Part 1/3]

Table II.5.12 Grade repetition, science performance and school characteristics

				Ha	d repeated	l grade at l	east once	in primary	lower sec	ondary or	upper seco	ondary sch	ool		
			All st	udents					By sch	ool socio-	economic	profile ¹			
		Ave	erage	Varia	bility	Bottom	quarter	Second	quarter	Third o	quarter	Тор q	uarter	Top - b qua	
		%	S.E.	SD.	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	% dif.	S.I
Australia		7.1	(0.3)	25.7	(0.5)	10.0	(0.7)	6.6	(0.7)	5.6	(0.7)	6.2	(0.6)	-3.8	(0.8
Austria		15.2	(0.7)	35.9	(0.7)	22.1	(2.1)	14.6 42.6	(1.7)	14.6	(1.4)	9.6	(0.8)	-12.6	(2.2
Belgium Canada		34.0 5.7	(0.8)	47.4 23.3	(0.3)	59.3 10.7	(2.3)	6.2	(2.3)	27.2 3.8	(1.8)	9.9 2.2	(1.4)	-49.5 -8.5	(3.0
Chile		24.6	(0.4)	43.0	(0.6)	37.4	(2.4)	29.2	(2.7)	18.2	(2.4)	13.6	(2.1)	-23.8	(3.
Czech Rep	ublic	4.8	(0.4)	21.4	(0.8)	10.4	(1.3)	5.1	(0.8)	2.6	(0.7)	1.5	(0.5)	-8.9	(1.4
Denmark	done	3.4	(0.3)	18.1	(0.7)	5.0	(0.7)	4.1	(0.5)	2.4	(0.4)	2.1	(0.5)	-2.9	(0.9
Estonia		4.0	(0.4)	19.6	(0.9)	7.0	(1.0)	4.3	(0.7)	2.0	(0.6)	2.6	(0.6)	-4.4	(1.2
Finland		3.0	(0.2)	16.9	(0.7)	3.9	(0.5)	3.3	(0.8)	2.3	(0.5)	2.3	(0.4)	-1.6	(0.
France		22.1	(0.6)	41.5	(0.4)	56.3	(3.0)	25.3	(3.3)	5.1	(2.0)	2.9	(0.6)	-53.3	(3.
Germany		18.1	(0.8)	38.5	(0.7)	30.7	(2.3)	22.6	(2.0)	11.0	(2.2)	9.7	(0.9)	-21.0	(2.
Greece		5.0	(0.7)	21.7	(1.5)	13.7	(2.4)	3.8	(1.3)	1.3	(0.5)	1.1	(0.4)	-12.5	(2.
Hungary		9.5	(0.6)	29.3	(0.8)	23.2	(2.4)	9.2	(2.0)	2.3	(1.5)	3.2	(0.9)	-20.0	(2.
Iceland		1.1	(0.2)	10.4	(0.7)	1.6	(0.4)	1.0	(0.3)	0.8	(0.4)	1.1	(0.3)	-0.5	(0.
Ireland		7.2	(0.5)	25.8	(0.8)	9.1	(1.0)	8.2	(1.5)	6.7	(0.9)	4.7	(0.6)	-4.4	(1.
Israel		9.0	(0.6)	28.5	(0.9)	18.5	(3.1)	14.0	(3.0)	2.1	(1.9)	1.4	(0.4)	-17.2	(3.
Italy		15.1	(0.6)	35.8	(0.6)	27.4	(1.7)	19.1	(1.5)	9.4	(1.3)	4.4	(0.7)	-23.0	(1.
Japan		0.0	С	0.0	С	0.0	С	0.0	С	0.0	С	0.0	С	0.0	
Korea		4.7	(0.3)	21.1	(0.6)	5.7	(0.6)	4.1	(0.8)	4.3	(0.7)	4.7	(0.7)	-1.0	(1.
Latvia		5.0	(0.4)	21.8	(0.9)	9.8	(1.3)	4.5	(0.9)	3.8	(0.7)	2.0	(0.7)	-7.7	(1.
Luxembou	rg	30.9	(0.5)	46.2	(0.2)	45.5	(1.2)	39.2	(1.2)	27.3	(0.9)	11.7	(0.7)	-33.9	(1
Mexico		15.8	(0.9)	36.5	(0.8)	27.5	(3.4)	18.5	(3.9)	11.6	(2.6)	5.7	(1.7)	-21.7	(4
Netherlan		20.1	(0.5)	40.1	(0.4)	28.6	(1.6)	24.8	(1.7)	15.2	(1.4)	12.7	(0.9)	-15.9	(1
New Zeala	and	4.9	(0.3)	21.6	(0.7)	5.6	(0.7)	4.7	(0.7)	4.8	(0.6)	4.6	(0.7)	-1.1	(1
Norway		0.0	С	0.0	С	0.0	С	0.0	С	0.0	С	0.0	С	0.0	
Poland		5.3	(0.4)	22.3	(0.7)	6.7	(1.2)	6.3	(1.2)	5.0	(0.8)	3.1	(0.6)	-3.6	(1
Portugal		31.2	(1.2)	46.4	(0.5)	53.3	(3.8)	35.7	(4.0)	24.8	(4.0)	11.1	(1.6)	-42.2	(4
Slovak Rep	oublic	6.5	(0.5)	24.7	(0.9)	19.5	(2.2)	3.9	(0.7)	2.9	(0.6)	1.0	(0.4)	-18.5	(2
Slovenia		1.9	(0.3)	13.6	(1.1)	4.1	(1.0)	1.4	(0.5)	1.9	(1.0)	0.2	(0.2)	-3.9	(1
Spain		31.3	(1.0)	46.4	(0.4)	45.6	(2.2)	36.5	(1.9)	31.4	(2.2)	11.6	(1.6)	-34.0	(2
Sweden	_	4.0	(0.4)	19.7	(0.9)	6.0	(1.0)	4.1	(0.7)	3.6	(1.1)	2.5	(0.6)	-3.4	(1
Switzerlar	ıd	20.0	(1.0)	40.0	(0.8)	25.0	(2.4)	21.5	(2.9)	21.6	(2.8)	11.9	(1.6)	-13.1	(3
Turkey	_	10.9	(0.7)	31.2	(0.9)	19.8	(1.5)	13.6	(2.1)	7.4	(1.3)	2.9	(0.9)	-16.8	(1.
United Kir		2.8	(0.3)	16.4	(0.7)	4.5	(0.8)	2.5	(0.5)	2.4	(0.5)	1.6	(0.4)	-2.9	(0.
United Sta	ites	11.0	(8.0)	31.2	(0.9)	19.2	(2.7)	10.9	(1.0)	8.6	(1.2)	5.3	(0.6)	-13.9	(2.
OECD ave	rage	11.3	(0.1)	27.5	(0.1)	19.2	(0.3)	12.9	(0.3)	8.4	(0.3)	4.9	(0.2)	-14.3	(0.
Albania		2.6	(0.3)	15.9	(1.0)	3.7	(1.0)	3.5	(0.9)	2.4	(0.9)	0.7	(0.4)	-3.0	(1.
Algeria		68.5	(2.1)	46.4	(0.9)	82.6	(2.4)	81.5	(3.1)	76.9	(6.1)	33.0	(5.7)	-49.6	(6
Brazil		36.4	(0.8)	48.1	(0.2)	49.8	(1.9)	38.6	(2.5)	34.9	(1.7)	22.5	(1.5)	-27.3	(2
B-S-J-G (C	hina)	20.8	(1.2)	40.6	(0.9)	32.1	(3.1)	27.9	(3.4)	15.0	(2.5)	8.0	(1.7)	-24.1	(3
Bulgaria		4.8	(0.6)	21.4	(1.3)	12.4	(2.1)	4.9	(1.5)	1.4	(0.4)	1.0	(0.4)	-11.4	(2
CABA (Ar	gentina)	19.1	(2.7)	39.3	(2.1)	44.8	(5.4)	26.5	(5.5)	3.8	(6.0)	2.1	(1.2)	-42.7	(5
Colombia		42.6	(1.0)	49.4	(0.2)	47.7	(2.5)	48.4	(2.0)	42.3	(2.2)	31.7	(2.3)	-16.0	(3
Costa Rica	1	31.4	(1.4)	46.4	(0.6)	42.1	(3.0)	38.5	(3.2)	33.8	(3.0)	10.6	(1.5)	-31.6	(3
Croatia		1.6	(0.2)	12.4	(0.8)	2.7	(0.7)	2.0	(0.7)	1.2	(0.4)	0.3	(0.2)	-2.4	(0
Cyprus*		4.7	(0.3)	21.2	(0.6)	10.1	(0.7)	3.6	(0.5)	1.7	(0.3)	3.5	(0.5)	-6.6	(0
Dominica	n Republic	33.9	(1.3)	47.3	(0.4)	53.0	(3.7)	39.3	(3.2)	31.4	(3.7)	12.3	(1.8)	-40.7	(4
FYROM		3.1	(0.2)	17.3	(0.6)	5.8	(0.7)	2.3	(0.4)	2.4	(0.5)	1.8	(0.4)	-4.0	(0
Georgia		1.5	(0.2)	12.2	(0.9)	3.4	(0.6)	1.2	(0.4)	0.7	(0.4)	0.8	(0.2)	-2.6	(0
Hong Kon	g (China)	17.2	(0.7)	37.8	(0.6)	23.5	(1.7)	19.9	(1.4)	15.1	(2.7)	10.3	(1.4)	-13.3	(2
Indonesia		16.2	(1.1)	36.9	(1.0)	28.2	(3.2)	19.7	(3.4)	11.6	(2.9)	5.4	(1.9)	-22.9	(3
Jordan		7.6	(0.4)	26.6	(0.7)	11.0	(1.8)	7.7	(1.3)	7.1	(1.0)	4.8	(0.9)	-6.2	(2
Kosovo		3.8	(0.4)	19.1	(1.0)	7.1	(1.3)	4.4	(0.9)	2.0	(0.4)	1.7	(0.5)	-5.4	(1
Lebanon		26.5	(1.2)	44.1	(0.6)	40.1	(3.2)	30.8	(3.0)	22.1	(2.8)	13.3	(2.9)	-26.8	(4
Lithuania		2.5	(0.2)	15.6	(0.8)	5.4	(0.9)	2.5	(0.5)	1.5	(0.5)	0.6	(0.2)	-4.8	(0
Macao (Cl	nına)	33.8	(0.4)	47.3	(0.1)	44.7	(0.8)	35.5	(0.9)	33.7	(0.8)	21.3	(0.8)	-23.4	(1
Malta		7.0	(0.3)	25.5	(0.5)	6.7	(0.7)	7.1	(0.6)	7.7	(0.7)	6.5	(0.6)	-0.2	(0
Moldova		3.0	(0.3)	17.0	(0.7)	4.4	(0.6)	4.0	(0.6)	1.9	(0.6)	1.7	(0.4)	-2.7	(0
Monteneg	ro	1.6	(0.2)	12.7	(0.7)	2.6	(0.5)	1.2	(0.3)	1.8	(0.4)	1.0	(0.3)	-1.5	(0
Peru		25.6	(0.9)	43.6	(0.5)	36.4	(1.6)	33.5	(1.8)	23.9	(2.0)	8.5	(1.1)	-27.9	(1
Qatar		17.4	(0.3)	37.9	(0.3)	31.8	(0.8)	16.5	(0.6)	12.2	(0.6)	9.1	(0.6)	-22.6	(1
Romania		5.9	(0.5)	23.5	(1.0)	10.6	(1.6)	6.0	(1.3)	5.7	(1.3)	1.2	(0.8)	-9.4	(1
Russia		1.5	(0.2)	12.3	(0.9)	2.8	(0.8)	1.3	(0.4)	1.0	(0.4)	1.1	(0.3)	-1.8	(0
Singapore		5.4	(0.5)	22.5	(0.9)	8.3	(0.6)	4.9	(0.5)	3.3	(0.4)	5.0	(1.8)	-3.3	(1
Chinese Ta	прег	0.6	(0.1)	7.5	(0.5)	0.7	(0.2)	0.6	(0.2)	0.4	(0.2)	0.5	(0.2)	-0.2	(0
Thailand	1	6.0	(0.4)	23.8	(0.8)	10.1	(1.2)	6.1	(1.0)	4.7	(1.1)	3.2	(0.6)	-6.9	(1
Trinidad a	nd Tobago	33.4	(0.5)	47.2	(0.2)	52.8	(1.3)	41.8	(1.3)	26.7	(1.2)	13.0	(0.8)	-39.8	(1
Tunisia	1	34.3	(1.7)	47.5	(0.5)	58.3	(5.3)	49.4	(6.7)	24.6	(7.2)	5.3	(2.5)	-52.9	(5
	ab Emirates	11.8	(0.5)	32.2	(0.6)	20.6	(1.9)	11.1	(1.2)	7.6	(0.9)	8.0	(0.8)	-12.5	(2
United Ara		35.3	(1.1)	47.8	(0.3)	62.9	(3.2)	57.3	(3.9)	15.1	(3.7)	6.2	(0.9)	-56.8	(3
United Ara Uruguay			(4.5)		(2.5)		(F ==		(2 =)						
United Ara		7.2	(1.6)	25.8	(2.6)	19.5	(5.7)	7.5	(3.5)	1.1	(1.9)	0.5	(0.3)	-19.0	(5.
United Ara Uruguay Viet Nam	**		(1.6)		(2.6)		(5.7)		(3.5)						
United Ara Uruguay		7.2		25.8		19.5		7.5		1.1	(1.9)	0.5	(0.3)	-19.0	(5

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS).

Notes: Values that are statistically significant are indicated in bold (see Annex A3).

The questions on grade repetition were not administered in Japan and Norway. A value of zero has been set in agreement with countries since there is a policy of automatic grade progression.

**See note at the beginning of this Annex.

**Coverage is too small to ensure comparability (see Annex A4).

StatLink **ISIA** http://dx.doi.org/10.1787/888933436509



[Part 2/3]

Table II.5.12 Grade repetition, science performance and school characteristics

ne.	suits based on studen	113 3011-1	eports	Ha	d repeated	l grade at l	east once	in primary	, lower sec	ondary or	upper seco	ondary sch	ool		
						l location			-				of school		
		(few	a or village er than people)	(3 0	wn 00 to people)	Ci (ov 100 000	ity ver people)	City - ru	ıral area	Pul	blic	Pri	vate	Private	- public
		%	S.E.	%	S.E.	%	S.E.	% dif.	S.E.	%	S.E.	%	S.E.	% dif.	S.E.
Q	Australia	8.4	(1.5)	8.8	(0.6)	6.3	(0.4)	-2.1	(1.5)	7.7	(0.4)	6.1	(0.5)	-1.6	(0.7)
OECD	Austria Belgium	14.2 20.5	(2.6)	15.0 28.3	(0.7)	15.9 46.3	(1.6)	1.7 25.8	(3.0)	15.6	(0.7)	11.4	(2.3)	-4.2	(2.5)
0	Canada	7.8	(7.1)	6.7	(1.3)	46.3	(3.1)	-3.5	(2.1)	5.6	(0.4)	4.5	(1.2)	-1.1	(1.2)
	Chile	57.2	(12.3)	27.0	(2.0)	22.3	(1.2)	-34.9	(12.4)	32.4	(1.8)	19.9	(1.0)	-12.5	(2.0)
	Czech Republic	9.3	(1.4)	5.2	(0.5)	1.8	(0.5)	-7.5	(1.4)	5.1	(0.4)	1.5	(0.7)	-3.5	(0.9)
	Denmark	3.5	(0.7)	3.4	(0.4)	3.8	(0.6)	0.2	(0.9)	3.7	(0.3)	2.5	(0.5)	-1.2	(0.6)
	Estonia Finland	6.1	(1.0)	3.5 3.2	(0.5)	2.9	(0.4)	-3.2 -1.3	(1.1)	3.9	(0.4)	6.7 1.5	(2.4)	2.8 -1.5	(2.5)
	France	44.7	(11.5)	23.3	(1.6)	15.2	(2.6)	-29.5	(11.8)	21.3	(1.0)	23.0	(2.5)	1.6	(2.9)
	Germany	13.3	(2.2)	18.5	(1.4)	17.6	(2.0)	4.4	(2.9)	18.6	(1.1)	12.0	(3.3)	-6.6	(3.5)
	Greece '	9.6	(3.6)	5.3	(1.0)	3.5	(1.1)	-6.2	(3.8)	5.2	(0.8)	0.4	(0.5)	-4.8	(0.9)
	Hungary	60.6	(9.5)	10.3	(1.5)	5.2	(0.8)	-55.4	(9.5)	10.7	(0.8)	4.6	(1.2)	-6.1	(1.5)
	Iceland	1.6	(0.6)	1.0	(0.2)	0.9	(0.3)	-0.7	(0.6)	1.1	(0.2)	m	m	m	m
	Ireland Israel	10.8	(1.8)	6.8 11.5	(0.5)	5.5 4.3	(0.6)	-5.3 -8.3	(1.9)	7.7 m	(0.7) m	6.8 m	(0.6) m	-0.9 m	(0.9) m
	Italy	20.3	(4.7)	13.7	(0.9)	14.4	(1.7)	-5.9	(5.1)	13.8	(0.8)	15.4	(2.4)	1.6	(2.5)
	Japan	0.0	C (-1.7)	0.0	(0. <i>3</i>)	0.0	(1.7) C	0.0	(3.1) C	0.0	(0.0) C	0.0	(21) C	0.0	(2.5) C
	Korea	m	m	5.1	(0.8)	4.6	(0.3)	m	m	4.7	(0.3)	4.7	(0.5)	0.0	(0.6)
	Latvia	9.7	(1.2)	3.9	(0.5)	3.3	(0.8)	-6.4	(1.4)	5.0	(0.5)	3.9	(2.1)	-1.1	(2.1)
	Luxembourg	m	(2.E)	36.0	(0.7)	24.4	(0.8)	m 10.0	(2.7)	30.9	(0.5)	30.9	(1.2)	0.0	(1.3)
	Mexico Netherlands	30.2 m	(3.5) m	16.5 20.4	(2.1)	10.3 22.0	(1.6) (1.9)	-19.9 m	(3.7) m	17.2 22.8	(0.9)	6.5 19.5	(3.0)	-10.7 -3.3	(3.2)
	New Zealand	5.4	(1.6)	6.0	(0.5)	3.9	(0.4)	-1.5	(1.7)	4.8	(0.4)	7.2	(1.7)	2.5	(1.7)
	Norway	0.0	(1.0) C	0.0	(0.5)	0.0	(O. 1)	0.0	C	0.0	(O.1)	0.0	C	0.0	C
	Poland [°]	6.4	(0.7)	4.4	(0.6)	5.0	(0.7)	-1.4	(1.0)	5.4	(0.4)	2.1	(1.2)	-3.3	(1.2)
	Portugal	56.4	(11.6)	34.4	(1.7)	17.1	(2.5)	-39.3	(11.4)	33.2	(1.3)	4.3	(2.3)	-28.9	(3.0)
	Slovak Republic Slovenia	20.8	(2.7)	4.0	(0.7)	1.8	(0.8)	-19.1	(3.0)	6.8	(0.7)	4.3	(2.7)	-2.6	(3.1)
	Spain	5.1 33.7	(2.4)	2.2 33.4	(0.5)	0.7 27.0	(0.2)	-4.4 -6.7	(2.4)	1.9 37.7	(0.3)	0.0 17.1	(2.1)	-1.9 -20.6	(0.3)
	Sweden	5.1	(1.5)	3.6	(0.4)	4.6	(1.1)	-0.4	(1.8)	3.9	(0.4)	4.5	(1.2)	0.5	(1.2)
	Switzerland	23.4	(3.4)	22.1	(1.3)	12.2	(2.2)	-11.2	(4.1)	20.1	(1.1)	22.6	(4.3)	2.5	(4.4)
	Turkey	42.7	(8.3)	10.5	(1.4)	10.4	(1.0)	-32.2	(8.3)	11.0	(0.7)	8.6	(4.5)	-2.4	(4.5)
	United Kingdom	1.5	(0.5)	2.3	(0.3)	3.9	(0.8)	2.4	(0.9)	2.7	(0.3)	3.1	(1.3)	0.4	(1.3)
	United States	12.3	(2.0)	9.1	(0.8)	13.0	(1.6)	0.7	(2.5)	11.1	(0.8)	6.4	(1.7)	-4.7	(1.9)
	OECD average	17.4	(0.8)	11.6	(0.2)	9.6	(0.2)	-8.5	(0.8)	11.4	(0.1)	8.2	(0.3)	-3.5	(0.3)
SLS	Albania	2.4	(0.6)	3.0	(0.7)	2.2	(0.5)	-0.3	(0.8)	2.7	(0.4)	1.7	(0.9)	-1.0	(1.0)
Partners	Algeria	76.0	(6.6)	71.9	(2.7)	50.8	(6.9)	-25.2	(9.6)	68.6	(2.2)	m	m	m	m
Par	Brazil B-S-J-G (China)	54.6 31.5	(6.7) (7.0)	34.6 22.8	(1.4)	32.7 13.6	(1.4) (1.6)	-21.9 -17.9	(7.2) (7.2)	35.7 18.7	(1.2)	20.6 37.9	(2.2)	-15.1 19.2	(2.8)
	Bulgaria	26.7	(7.0)	4.0	(0.6)	4.0	(1.0)	-22.7	(7.2)	4.9	(0.6)	37.9 m	(3.0) m	m	(0.5) m
	CABA (Argentina)	m	m	m	m	19.8	(2.9)	m	m	31.4	(4.5)	7.9	(3.2)	-23.5	(5.4)
	Colombia	48.4	(3.5)	41.9	(1.9)	40.1	(1.2)	-8.3	(3.5)	45.3	(1.1)	32.6	(2.7)	-12.7	(2.9)
	Costa Rica	38.4	(3.1)	28.8	(1.7)	34.5	(3.5)	-3.9	(4.5)	30.6	(1.4)	36.7	(5.0)	6.1	(5.1)
	Croatia	11.3	(1.4)	1.9	(0.3)	1.1	(0.2)	m 6.4	(1.4)	1.6	(0.2)	1.1	(1.6)	-0.5	(1.6)
	Cyprus* Dominican Republic	43.0	(1.4)	3.8 36.6	(0.3)	5.0 20.3	(0.5)	-6.4 -22.7	(1.4)	4.5 38.0	(0.3)	5.1 18.8	(0.7)	0.6 -19.2	(0.8)
	FYROM	4.7	(1.8)	2.9	(0.3)	2.9	(0.3)	-1.7	(1.8)	3.0	(0.2)	2.0	(0.9)	-1.0	(0.9)
	Georgia	2.4	(0.4)	1.8	(0.5)	0.7	(0.2)	-1.6	(0.5)	1.6	(0.2)	0.5	(0.3)	-1.1	(0.4)
	Hong Kong (China)	m	m	m	m	17.2	(0.7)	m	m	17.1	(1.6)	17.2	(0.7)	0.1	(1.8)
	Indonesia	24.0	(2.2)	14.2	(1.9)	7.5	(2.6)	-16.5	(3.6)	15.7	(1.2)	17.1	(1.9)	1.4	(2.2)
	Jordan Kosovo	11.6 8.3	(1.2)	7.7 3.6	(0.7)	5.8 2.0	(0.7)	-5.8 -6.3	(1.4)	7.8 3.9	(0.5)	6.8 0.7	(0.9)	-1.0 -3.2	(1.0)
	Lebanon	34.4	(5.2)	26.7	(2.0)	19.1	(3.1)	-15.4	(6.8)	35.0	(1.6)	17.9	(1.9)	-17.0	(2.6)
	Lithuania	3.7	(0.7)	2.6	(0.4)	1.8	(0.3)	-1.9	(0.8)	2.5	(0.3)	3.4	(2.0)	0.9	(2.0)
	Macao (China)	m	m	m	m	33.6	(0.4)	m	m	m	m	33.3	(0.4)	m	m
	Malta	7.3	(0.9)	6.9	(0.3)	m	m	m	m	7.5	(0.4)	6.1	(0.4)	-1.4	(0.6)
	Moldova Montenegro	4.0 m	(0.4) m	2.1 1.7	(0.5)	1.7 1.5	(0.4)	-2.2 m	(0.6) m	3.0 1.6	(0.3)	m m	m m	m m	m m
	Peru	31.8	(2.1)	24.8	(1.2)	17.5	(2.2)	-14.3	(3.3)	30.3	(0.2)	15.0	(1.3)	-15.3	(1.5)
	Qatar	17.3	(1.4)	20.6	(0.5)	14.5	(0.4)	-2.8	(1.5)	23.5	(0.4)	9.4	(0.5)	-14.1	(0.6)
	Romania	20.8	(2.6)	4.3	(0.7)	3.6	(0.9)	-17.2	(2.7)	5.9	(0.5)	m	m	m	m
	Russia	2.1	(0.6)	1.8	(0.5)	1.2	(0.2)	-0.9	(0.7)	1.6	(0.2)	m	m	m	m
	Singapore Chinese Taipei	m	m	m 0.6	m (0.2)	5.3	(0.5)	m	m	5.0	(0.2)	9.7	(4.6)	4.7	(4.6)
	Thailand	10.4	m (1.2)	0.6 5.5	(0.2)	0.5 3.8	(0.1)	-6.6	m (1.3)	0.6 5.8	(0.1)	0.5 7.0	(0.1)	0.0	(0.1)
	Trinidad and Tobago	46.6	(1.5)	31.8	(0.7)	m	(0.0) m	-0.0 m	(1.5) m	33.4	(0.7)	35.3	(2.6)	1.9	(2.7)
	Tunisia	71.8	(11.2)	37.1	(3.2)	25.2	(6.1)	-46.6	(12.9)	33.4	(2.2)	52.6	(23.5)	19.2	(23.8)
	United Arab Emirates	18.5	(4.3)	14.6	(1.6)	10.1	(0.6)	-8.4	(4.5)	16.7	(1.1)	8.3	(0.6)	-8.5	(1.3)
	Uruguay Viet Norm	42.3	(5.1)	37.0	(2.2)	32.1	(2.7)	-10.2	(5.8)	40.7	(1.2)	6.1	(0.8)	-34.6	(1.4)
	Viet Nam	8.9	(2.3)	9.6	(3.3)	1.4	(0.7)	-7.4	(2.4)	7.4	(1.6)	2.7	(1.7)	-4.7	(2.4)
	Argentina** Kazakhstan**	39.4 2.9	(6.0) (0.7)	29.2 1.3	(2.1)	27.0 1.6	(2.0)	-12.4 -1.4	(6.3) (0.7)	32.8 1.9	(1.7) (0.3)	16.4 2.2	(2.1)	-16.4 0.2	(2.7)
	Malaysia**	m	(0.7) m	m	(0.5) m	m	(0.5) m	m	(0.7) m	m	(0.5) m	m	(0.4) m	m	(0.5) m

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS).

Notes: Values that are statistically significant are indicated in bold (see Annex A3).

The questions on grade repetition were not administered in Japan and Norway. A value of zero has been set in agreement with countries since there is a policy of automatic grade progression.

** See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink *** Indicated in the progression of


[Part 3/3]

Table II.5.12 Grade repetition, science performance and school characteristics

Canada	nts' rofile¹ ariance ent ance	After	accounting ools' sociounge nce score student oeated	in sto	d variance udent mance ed x 100) S.E.
Lower secondary education (ISCED 3) Upper secondary education (ISC	ariance ent ance x 100) S.E. (0.3) (0.8) (1.1) (0.6) (1.1) (0.5) (0.6) (0.7) (1.4) (1.1) (1.2) (1.5) (0.5)	Chai in the sciet when the had rep a gra Score dif. -45 -43 -67 -67 -56 -81 -67	student peated ade S.E. (4.1) (4.2) (2.3) (4.4)	Explained in stuperfor (r-squar % 17.7 33.8	d variance udent mance ed x 100) S.E.
Natistalia S.C. S.C. S.C. S.C. S.C. S.C. S.C. S.C. S.C.	(0.3) (0.8) (1.1) (0.6) (1.1) (0.8) (0.5) (0.6) (0.7) (1.4) (1.1) (1.2) (1.5) (0.4)	Score dif. -45 -43 -67 -67 -56 -81 -67	(4.1) (4.2) (2.3) (4.4)	17.7 33.8	
Selgium Selection Selec	(0.8) (1.1) (0.6) (1.1) (0.8) (0.5) (0.6) (0.7) (1.4) (1.1) (1.2) (1.5) (0.4)	-43 -67 -67 -56 -81 -67	(4.2) (2.3) (4.4)	33.8	
Selgium	(0.8) (1.1) (0.6) (1.1) (0.8) (0.5) (0.6) (0.7) (1.4) (1.1) (1.2) (1.5) (0.4)	-43 -67 -67 -56 -81 -67	(4.2) (2.3) (4.4)	33.8	(1.1)
Canada	(0.6) (1.1) (0.8) (0.5) (0.6) (0.7) (1.4) (1.1) (1.2) (1.5) (0.4)	-67 -56 -81 -67	(4.4)	43.8	(1.7)
Chile 90.3 2.0 20.6 0.7 4-9.7 2.0 7-6 3.3 14.6	(1.1) (0.8) (0.5) (0.6) (0.7) (1.4) (1.1) (1.2) (1.5) (0.4)	-56 -81 -67			(1.6)
Denmark 3.4 (0.3) 0.7 0.3 0.59 (0.7) 1.20 (5.7) 7.4	(0.8) (0.5) (0.6) (0.7) (1.4) (1.1) (1.2) (1.5) (0.4)	-81 -67		14.7 33.8	(1.0)
Estonia	(0.5) (0.6) (0.7) (1.4) (1.1) (1.2) (1.5) (0.4)	-67	(4.6)	34.9	(1.9)
Finland 3.0 0.2 m	(0.7) (1.4) (1.1) (1.2) (1.5) (0.4)	-70	(7.5)	13.4	(1.3)
France	(1.4) (1.1) (1.2) (1.5) (0.4)		(6.9)	13.5	(1.4)
Germany 18.7 (0.8) 1.6 (0.6) -17.7 (1.1) -7.3 (4.9) 8.2 Greece 70.7 (6.8) 1.7 (0.2) -68.9 -6.8 -104 (7.5) 6.0 Hungary 59.3 (4.1) 4.0 (0.4) -55.3 (4.1) -110 (6.4) 11.2 Iceland 1.1 (0.2) m m m m m m m m m	(1.1) (1.2) (1.5) (0.4)	-99	(7.9)	13.2	(1.1)
Greece	(1.2) (1.5) (0.4)	-65 -44	(4.2)	43.4 35.9	(1.7)
Ireland	(0.4)	-57	(9.5)	25.1	(2.5)
Ireland		-50	(7.3)	45.6	(1.8)
Israel 12.9 (2.4) 8.5 (0.6) -4.5 (2.5) -108 (5.5) 8.4 Italy 86.1 (2.7) 14.3 (0.6) -71.7 (2.8) -71 (4.7) 7.7 Japan (0.0 c 0.0 c 0.0 c m m m m m m m m m	(0.5)	-92	(14.6)	6.2	(0.9)
Haly Bapan Q.0	(O O)	-38	(5.1)	16.1 26.5	(1.3)
Japan 0.0 c 0.0 c 0.0 c m m m m m m m m m	(0.9)	-68 -43	(7.2) (4.5)	26.5	(2.1)
Latvia	m	m	m	m	m
Luxembourg S2.6 (0.8) 2.9 (0.3) -49.7 (1.0) -93 (2.8) 18.2	(0.2)	-25	(5.8)	18.2	(2.1)
Mexico	(0.9)	-79	(5.8)	16.8	(1.4)
Netherlands	(1.0)	-59 -45	(2.7)	40.9 22.4	(1.0)
New Zealand	(1.1)	-36	(3.6)	37.5	(3.2)
Norway	(0.5)	-52	(7.9)	19.8	(1.6)
Portugal 89.5 (0.9) 0.7 (0.3) -88.8 (0.9) -115 (3.0) 33.6 Slovak Republic 12.2 (1.1) 1.7 (0.4) -10.5 (1.2) -131 (6.6) 11.3 Slovenia 28.4 (5.7) 0.5 (0.1) -27.9 (5.7) -117 (9.1) 2.9 Spain 31.3 (1.0) m m m m m -99 (2.8) 27.1 Sweden 4.1 (0.4) 2.2 (2.0) -1.9 (2.0) -98 (7.9) 3.5 Switzerland 25.1 (1.2) 1.3 (0.3) -23.8 (1.2) -74 (5.1) 8.7 Turkey 52.9 (4.2) 9.5 (0.6) -43.4 (4.2) -77 (5.2) 9.1 United Kingdom 15.2 (8.1) 2.7 (0.3) -12.4 (8.1) -74 (11.7) 1.4 United States 63.7 (2.8) 5.5 (0.5) -58.1 (2.7) -96 (5.0) 9.4 OECD average 33.3 (0.4) 4.6 (0.1) -31.6 (0.5) -89 (1.1) 9.0 OECD average 33.3 (0.4) 4.6 (0.1) -31.6 (0.5) -89 (1.1) 9.0 OECD average 38.5 (1.2) 11.9 (2.5) -73.6 (2.7) -54 (4.2) 13.1 Sazil 89.4 (0.9) 21.9 (0.5) -67.5 (1.0) -73 (2.8) 15.5 S.5-1-G (China) 28.7 (1.6) 7.0 (1.0) -21.7 (1.9) -67 (6.6) 7.0 CaBA (Argentina) 20.6 (2.9) 0.7 (0.8) -61.9 (2.9) -90 (9.1) 17.0 Colombia 82.0 (1.1) 16.2 (0.8) -65.8 (1.2) -53 (2.8) 10.6 Costa Rica 59.5 (1.7) 1.0 (0.3) -58.4 (1.8) -58 (2.9) 14.1 Croatia m m 1.4 (0.2) m m m -98 (10.0) 1.9 Cyprus* 41.7 (2.5) 2.4 (0.2) -39.3 (2.5) -57 (3.2) 13.8 Coordina 2.79 (1.8) 3.3 (0.8) 1.0 (0.3) -54.4 (1.4) -50 (3.1) 5.5 Dominican Republic 76.5 (2.3) 23.0 (1.1) -53.6 (2.5) -57 (3.2) 13.8 Hong Kong (China) 50.6 (1.3) 1.0 (0.2) -2.2 (0.6) -86 (12.2) 1.3 Hong Kong (China) 50.6 (1.3) 1.0 (0.3) -54.4 (1.4) -50 (3.1) 5.5 Indonesia 2.79 (1.8) 3.8 Occional 2.5 (0.2) m m m m m m m m -116 (8.0) 4.0 Macao (China) 73.3 (0.8) 1.7 (0.3) -71.7 (0.9) -70 (2.7) 16.7 Malta m m 6.7 (m	m	m	m	m
Slovaix Republic 12.2	(1.0)	-93	(6.9)	20.6	(1.6)
Slovenia 28.4 (5.7) 0.5 (0.1) -27.9 (5.7) -117 (9.1) 2.9 Spain 31.3 (1.0) m m m m m m m m m	(1.4) (1.4)	-95 -61	(3.0) (8.2)	38.8	(1.6)
Spain 31.3 (1.0) m m m m m m m m m	(0.7)	-67	(13.5)	35.8	(1.3)
Switzerland	(1.3)	-84	(2.9)	30.9	(1.3)
Turkey United Kingdom United States 15.2 (8.1) 15.3 (8.1) 15.5 (8.2) 15.5 (8.2) 15.5 (8.2) 15.5 15.5 (8.2) 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15.	(0.7)	-76	(7.3)	18.5	(1.7)
United Kingdom	(1.1)	-55	(4.5)	29.4	(1.8)
United States	(1.0)	-52 -58	(5.1) (9.5)	30.4 18.5	(3.7)
Albania 2.2 (0.6) 2.8 (0.4) 0.7 (0.7) m m m m Algeria 85.5 (1.2) 11.9 (2.5) -73.6 (2.7) -54 (4.2) 13.1 Brazil 89.4 (0.9) 21.9 (0.5) -67.5 (1.0) -73 (2.8) 15.5 B-S-J-G (China) 28.7 (1.6) 7.0 (1.0) -21.7 (1.9) -67 (6.6) 7.0 Bulgaria 71.5 (4.9) 2.7 (0.3) -68.8 (4.9) -122 (7.6) 6.6 CABA (Argentina) 20.6 (2.9) 0.7 (0.8) -19.9 (2.9) -90 (9.1) 17.0 Colombia 82.0 (1.1) 16.2 (0.8) -65.8 (1.2) -53 (2.8) 10.6 Costa Rica 59.5 (1.7) 1.0 (0.3) -58.4 (1.8) -58 (2.9) 14.1 Croatia m m 1.4 (0.2) m m -98 (10.0) 1.9 Cyprus* 41.7 (2.5) 2.4 (0.2) -39.3 (2.5) -87 (5.6) 3.9 Dominican Republic 76.5 (2.3) 23.0 (1.1) -53.6 (2.5) -57 (3.2) 13.8 FYROM m m 3.0 (0.2) m m -73 (7.9) 2.2 Georgia 3.2 (0.6) 1.0 (0.2) -2.2 (0.6) -86 (12.2) 1.3 Hong Kong (China) 50.6 (1.3) 1.0 (0.3) -49.6 (1.4) -50 (3.1) 5.5 Indonesia 27.9 (1.8) 3.6 (0.5) -24.3 (1.9) -46 (3.7) 6.2 Jordan 7.6 (0.4) m m m m -86 (5.6) 7.4 Kosovo 7.9 (1.2) 2.4 (0.3) -5.4 (1.2) -65 (6.5) 3.0 Lebanon 69.4 (2.6) 9.7 (1.0) -59.7 (2.8) -88 (4.3) 18.4 Lithuania 2.5 (0.2) m m m -116 (8.0) 4.0 Macao (China) 73.3 (0.8) 1.7 (0.3) -71.7 (0.9) -70 (2.7) 16.7 Malta m m 6.7 (0.3) m m -89 (7.8) 3.8	(1.1)	-78	(5.0)	20.3	(1.6)
Example Feature 85.5 (1.2) 11.9 (2.5) -73.6 (2.7) -54 (4.2) 13.1 Brazil 89.4 (0.9) 21.9 (0.5) -67.5 (1.0) -73 (2.8) 15.5 B-S-J-G (China) 28.7 (1.6) 7.0 (1.0) -21.7 (1.9) -67 (6.6) 7.0 Bulgaria 71.5 (4.9) 2.7 (0.3) -68.8 (4.9) -122 (7.6) 6.6 6.6 CABA (Argentina) 20.6 (2.9) 0.7 (0.8) -19.9 (2.9) -90 (9.1) 17.0 Colombia 82.0 (1.1) 16.2 (0.8) -65.8 (1.2) -53 (2.8) 10.6 Costa Rica 59.5 (1.7) 1.0 (0.3) -58.4 (1.8) -58 (2.9) 14.1 Cyprus* 41.7 (2.5) 2.4 (0.2) -39.3 (2.5) -87 (5.6) 3.9 Dominican Re	(0.2)	-63	(1.1)	26.4	(0.3)
Algeria 85.5 (1.2) 11.9 (2.5) -73.6 (2.7) -54 (4.2) 13.1	m	m	m	m	m
Bulgaria 71.5 (4.9) 2.7 (0.3) -68.8 (4.9) -122 (7.6) 6.6 (5.6) (2.9) 0.7 (0.8) -19.9 (2.9) -90 (9.1) 17.0 (0.0) (0.0	(1.7)	-41	(5.0)	15.9	(2.4)
Bulgaria 71.5 (4.9) 2.7 (0.3) -68.8 (4.9) 1.22 (7.6) 6.6 (5.6) (2.9) 0.7 (0.8) -19.9 (2.9) -90 (9.1) 17.0 (0.8) (1.7) (1.8	(0.9)	-56	(1.9)	32.0	(1.9)
CAŠA (Argentina) 20.6 (2.9) 0.7 (0.8) -19.9 (2.9) -90 (9.1) 17.0 Colombia 82.0 (1.1) 16.2 (0.8) -65.8 (1.2) -53 (2.8) 10.6 Costa Rica 59.5 (1.7) 1.0 (0.3) -58.4 (1.8) -58 (2.9) 14.1 Croatia m m 1.4 (0.2) m m -98 (10.0) 1.9 Cyprus* 41.7 (2.5) 2.4 (0.2) -39.3 (2.5) -87 (5.6) 3.9 Dominican Republic 76.5 (2.3) 23.0 (1.1) -53.6 (2.5) -57 (3.2) 13.8 FYROM m m 3.0 (0.2) m m -73 (7.9) 2.2 Georgia 3.2 (0.6) 1.0 (0.2) -2.2 (0.6) -86 (12.2) 1.3 Hong Kong (China) 50.6 (1.3)	(1.2)	-32	(4.8)	36.1	(2.9)
Colombia 82.0 (1.1) 16.2 (0.8) -65.8 (1.2) -53 (2.8) 10.6 Costa Rica 59.5 (1.7) 1.0 (0.3) -58.4 (1.8) -58 (2.9) 14.1 Croatia m m 1.4 (0.2) m m -98 (10.0) 1.9 Cyprus* 41.7 (2.5) 2.4 (0.2) -39.3 (2.5) -87 (5.6) 3.9 Dominican Republic 76.5 (2.3) 23.0 (1.1) -53.6 (2.5) -57 (3.2) 13.8 FYROM m m 3.0 (0.2) m m -73 (7.9) 2.2 Georgia 3.2 (0.6) 1.0 (0.2) -2.2 (0.6) -86 (12.2) 1.3 Hong Kong (China) 50.6 (1.3) 1.0 (0.0) -24.2 (0.6) -86 (12.2) 1.3 Indonesia 27.9 (1.8)	(1.1) (2.9)	-44 -45	(10.5)	39.2 35.5	(2.8)
Costa Rica 59,5 (1.7) 1.0 (0.3) -58.4 (1.8) -58 (2.9) 14.1 Croatia m m 1.4 (0.2) m m -98 (10.0) 1.9 Cyprus* 41.7 (2.5) 2.4 (0.2) -39.3 (2.5) -87 (5.6) 3.9 Dominican Republic 76.5 (2.3) 23.0 (1.1) -53.6 (2.5) -57 (3.2) 13.8 FYROM m m 3.0 (0.2) m m -73 (7.9) 2.2 Georgia 3.2 (0.6) 1.0 (0.2) -2.0 m -73 (7.9) 2.2 Hong Kong (China) 50.6 (1.3) 1.0 (0.2) -24.9 (1.4) -50 (3.1) 5.5 Indonesia 27.9 (1.8) 3.6 (0.5) -24.3 (1.9) -46 (3.7) 6.2 Jordan 7.6 (0.4) m	(1.0)	-43	(2.1)	28.2	(2.3)
Cyprus* 41.7 (2.5) 2.4 (0.2) -39.3 (2.5) -87 (5.6) 3.9 Dominican Republic 76.5 (2.3) 23.0 (1.1) -53.6 (2.5) -57 (3.2) 13.8 FYROM m m 3.0 (0.2) m m -73 (7.9) 2.2 Georgia 3.2 (0.6) 1.0 (0.2) -2.2 (0.6) -86 (12.2) 1.3 Hong Kong (China) 50.6 (1.3) 1.0 (0.3) -49.6 (1.4) -50 (3.1) 5.5 Indonesia 27.9 (1.8) 3.6 (0.5) -24.3 (1.9) -46 (3.7) 6.2 Jordan 7.6 (0.4) m m m m m -86 (5.6) 7.4 Kosovo 7.9 (1.2) 2.4 (0.3) -5.4 (1.2) -65 (6.5) 3.0 Lebanon 69.4 (2.6)	(1.2)	-40	(2.4)	29.0	(2.0)
Dominican Republic 76.5 (2.3) 23.0 (1.1) -53.6 (2.5) -57 (3.2) 13.8 FYROM m m 3.0 (0.2) m m -73 (7.9) 2.2 Georgia 3.2 (0.6) 1.0 (0.2) m m -86 (12.2) 1.3 Hong Kong (China) 50.6 (1.3) 1.0 (0.3) -49.6 (1.4) -50 (3.1) 5.5 Indonesia 27.9 (1.8) 3.6 (0.5) -24.3 (1.9) -46 (3.7) 6.2 Jordan 7.6 (0.4) m m m m -86 (5.6) 7.4 Kosovo 7.9 (1.2) 2.4 (0.3) -5.4 (1.2) -65 (6.5) 3.0 Lebanon 69.4 (2.6) 9.7 (1.0) -59.7 (2.8) -88 (4.3) 18.4 Lithuania 2.5 (0.2) m <td< td=""><td>(0.5)</td><td>-72</td><td>(9.9)</td><td>26.9</td><td>(2.0)</td></td<>	(0.5)	-72	(9.9)	26.9	(2.0)
FYROM m m 3.0 (0.2) m m -73 (7.9) 2.2 Georgia 3.2 (0.6) 1.0 (0.2) -2.2 (0.6) -86 (1.2.) 1.3 Hong Kong (China) 50.6 (1.3) 1.0 (0.3) -49.6 (1.4) -50 (3.1) 5.5 Indonesia 27.9 (1.8) 3.6 (0.5) -24.3 (1.9) -46 (3.7) 6.2 Jordan 7.6 (0.4) m m m m -86 (5.6) 7.4 Kosovo 7.9 (1.2) 2.4 (0.3) -5.7 (2.1) -65 (6.5) 3.0 Lebanon 69.4 (2.6) 9.7 (1.0) -59.7 (2.8) -88 (4.3) 18.4 Lithuania 2.5 (0.2) m m m m -116 (8.0) 4.0 Macao (China) 73.3 (0.8) 1.7 (0.3)	(0.5)	-66 -37	(5.2) (2.8)	19.4 30.6	(0.9)
Georgia 3.2 (0.6) 1.0 (0.2) -2.2 (0.6) -86 (12.2) 1.3 Hong Kong (China) 50.6 (1.3) 1.0 (0.3) -49.6 (1.4) -50 (3.1) 5.5 Indonesia 27.9 (1.8) 3.6 (0.5) -24.3 (1.9) -46 (3.7) 6.2 Jordan 7.6 (0.4) m m m m m -86 (5.6) 7.4 Kosovo 7.9 (1.2) 2.4 (0.3) -5.4 (1.2) -65 (6.5) 3.0 Lebanon 69.4 (2.6) 9.7 (1.0) -59.7 (2.8) -88 (4.3) 18.4 Lithuania 2.5 (0.2) m m m m -116 (8.0) 4.0 Macao (China) 73.3 (0.8) 1.7 (0.3) -71.7 (0.9) -70 (2.7) 16.7 Malta m m 6.7	(0.5)	-57	(7.8)	17.2	(1.2)
Indonesia 27.9 (1.8) 3.6 (0.5) -24.3 (1.9) -46 (3.7) 6.2 Jordan 7.6 (0.4) m m m m m -86 (5.6) 7.4 Kosovo 7.9 (1.2) 2.4 (0.3) -54.4 (1.2) -65 (6.5) 3.0 Lebanon 69.4 (2.6) 9.7 (1.0) -59.7 (2.8) -88 (4.3) 18.4 Lithuania 2.5 (0.2) m m m m -116 (8.0) 4.0 Macao (China) 73.3 (0.8) 1.7 (0.3) -71.7 (0.9) -70 (2.7) 16.7 Malta m m 6.7 (0.3) m m -89 (7.8) 3.8	(0.4)	-64	(11.7)	15.3	(1.6)
Jordan 7.6 (0.4) m m m m m m m m m	(0.7)	-40	(3.0)	16.2	(1.7)
Kosovo 7.9 (1.2) 2.4 (0.3) -5.4 (1.2) -65 (6.5) 3.0 Lebanon 69.4 (2.6) 9.7 (1.0) -59.7 (2.8) -88 (4.3) 18.4 Lithuania 2.5 (0.2) m m m -116 (8.0) 4.0 Macao (China) 73.3 (0.8) 1.7 (0.3) -71.7 (0.9) -70 (2.7) 16.7 Malta m m 6.7 (0.3) m m -89 (7.8) 3.8	(0.9)	-27	(2.8)	25.5	(3.0)
Lebanon 69.4 (2.6) 9.7 (1.0) -59.7 (2.8) -88 (4.3) 18.4 Lithuania 2.5 (0.2) m m m m -116 (8.0) 4.0 Macao (China) 73.3 (0.8) 1.7 (0.3) -71.7 (0.9) -70 (2.7) 16.7 Malta m m 6.7 (0.3) m m -89 (7.8) 3.8	(1.0)	-76 -49	(5.3) (6.5)	17.9 16.0	(2.1)
Lithuania 2.5 (0.2) m m m m -116 (8.0) 4.0 Macao (China) 73.3 (0.8) 1.7 (0.3) -71.7 (0.9) -70 (2.7) 16.7 Malta m m 6.7 (0.3) m m -89 (7.8) 3.8	(1.5)	-68	(5.1)	28.8	(2.4)
Malta m m 6.7 (0.3) m m -89 (7.8) 3.8	(0.7)	-86	(8.1)	23.6	(2.3)
	(1.2)	-68	(2.8)	17.2	(1.2)
Moldova 3.1 (0.3) 1.0 (0.7) -2.1 (0.7) -80 (7.1) 2.5	(0.6)	-87	(7.9)	27.7	(1.2)
	(0.5) (0.4)	-67 -74	(6.9) (9.8)	15.7 18.4	(1.7) (0.9)
Peru 75.9 (1.2) 8.9 (0.5) -67.0 (1.3) -61 (2.9) 11.9	(0.9)	-39	(2.4)	34.6	(2.0)
Qatar 46.2 (0.9) 10.0 (0.3) -36.2 (0.9) -83 (2.5) 10.3	(0.6)	-64	(2.5)	19.9	(0.6)
	(0.9)	-35	(10.3)	24.2	(2.8)
	(0.2) (0.5)	-39 -71	(11.1)	10.0 28.5	(1.8)
	(0.3)	-48	(14.8)	28.4	(2.5)
Thailand 12.7 (1.1) 3.8 (0.4) -8.9 (1.2) -56 (4.9) 2.8	(0.5)	-43	(5.0)	19.7	(3.0)
	(1.1)	-45	(2.9)	42.1	(1.2)
		-53	(3.1)	31.7	(2.1)
	(1.5)	-63 -65	(3.7)	18.6 36.5	(1.7)
	(0.7)	-39	(7.3)	21.3	(4.1)
		-39	(3.1)	23.8	(2.1)
Kazakhstan** 2.4 (0.3) 1.0 (0.3) -1.3 (0.3) -38 (11.2) 0.5	(0.7) (1.4) (1.4)	-27	(11.2)	9.0	(2.3)
Malaysia** m m m m m m m	(0.7) (1.4)	m		m	m

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS).

Notes: Values that are statistically significant are indicated in bold (see Annex A3).

The questions on grade repetition were not administered in Japan and Norway. A value of zero has been set in agreement with countries since there is a policy of automatic grade progression.

*See note at the beginning of this Annex.

**Coverage is too small to ensure comparability (see Annex A4).

StatLink **ISIA** http://dx.doi.org/10.1787/888933436509



[Part 1/1]

Table II.5.14 Programme orientation

			P	ercentage of stude	ents who are enrolle	ed in a programme	whose curriculum	is:
	Academic	inclusion ¹	Ge	neral	Pre-vocation	al or vocational	Mo	dular
	% var.	S.E.	%	S.E.	%	S.E.	%	S.E.
Australia	78.9	(1.3)	87.0	(0.8)	13.0	(0.8)	0.0	С
Austria	56.2	(2.1)	28.6	(0.9)	71.4	(0.9)	0.0	C
Belgium	55.6	(2.1)	58.6	(1.3)	41.4	(1.3)	0.0	С
Canada	84.7	(1.3)	0.0	C (1.5)	0.0	C (1.5)	100.0	С
Chile	61.5	(2.4)	99.4	(0.1)	0.6	(0.1)	0.0	С
Czech Republic	55.6	(2.4)	66.7	(1.3)	33.3		0.0	
			100.0			(1.3)	0.0	С
Denmark	86.1	(1.7)		C (0.1)	0.0	C (0.1)		С
Estonia	81.1	(2.3)	99.7	(0.1)	0.3	(0.1)	0.0	С
Finland	92.1	(1.5)	100.0	C	0.0	C	0.0	С
France	W	W	81.3	(0.9)	18.7	(0.9)	0.0	С
Germany	56.3	(1.9)	97.3	(0.7)	2.7	(0.7)	0.0	С
Greece	64.5	(3.1)	83.6	(2.6)	16.4	(2.6)	0.0	С
Hungary	44.6	(2.2)	84.1	(0.6)	15.9	(0.6)	0.0	С
Iceland	96.2	(1.7)	100.0	C	0.0	C	0.0	C
Ireland	86.8	(1.7)	99.2	(0.2)	0.8	(0.2)	0.0	С
Israel	63.1	(2.7)	100.0	C	0.0	С	0.0	C
Italy	56.7	(2.2)	50.3	(1.2)	49.7	(1.2)	0.0	С
Japan	56.1	(2.3)	75.6	(0.9)	24.4	(0.9)	0.0	C
Korea	75.2	(2.5)	83.9	(0.4)	16.1	(0.4)	0.0	С
Latvia	83.4	(2.0)	99.2	(0.4)	0.8	(0.4)	0.0	С
Luxembourg	66.1	(4.0)	77.7	(0.4)	15.0	(0.4)	7.3	(0.2)
Mexico	70.0	(2.5)	74.7	(1.1)	25.3	(1.1)	0.0	С
Netherlands	42.3	(2.0)	73.9	(0.9)	26.1	(0.9)	0.0	С
New Zealand	82.6	(2.2)	100.0	С	0.0	С	0.0	С
Norway	92.1	(1.1)	100.0	С	0.0	С	0.0	C
Poland	85.7	(2.2)	99.9	(0.1)	0.1	(0.1)	0.0	С
Portugal	76.8	(2.1)	86.9	(1.1)	13.1	(1.1)	0.0	C
Slovak Republic	55.6	(2.5)	67.4	(1.0)	5.7	(0.7)	26.9	(1.2)
Slovenia	51.6	(2.5)	42.6	(0.2)	57.4	(0.2)	0.0	С
Spain	86.6	(1.4)	99.1	(0.1)	0.9	(0.1)	0.0	С
Sweden	84.5	(1.9)	99.9	(0.1)	0.1	(0.1)	0.0	С
Switzerland	62.3	(2.7)	90.8	(1.1)	9.2	(1.1)	0.0	C
Turkey	46.7	(2.7)	59.0	(1.9)	41.0	(1.9)	0.0	С
United Kingdom	77.9	(1.8)	99.2	(0.2)	0.8	(0.2)	0.0	
								С
United States	80.8	(2.0)	100.0	С	0.0	С	0.0	С
OECD average	69.9	(0.4)	81.9	(0.1)	14.3	(0.1)	3.8	(0.0)
Albania	76.0	(2.4)	93.6	(1.5)	6.4	(1.5)	0.0	С
Algeria	68.8	(2.9)	99.4	(0.6)	0.6	(0.6)	0.0	С
Brazil	60.7	(2.3)	95.3	(1.0)	4.7	(1.0)	0.0	
								С
B-S-J-G (China)	47.0	(2.6)	93.8	(1.1)	6.2	(1.1)	0.0	С
Bulgaria	48.7	(2.6)	53.8	(2.0)	46.2	(2.0)	0.0	C
CABA (Argentina)	64.7	(3.9)	87.0	(4.3)	13.0	(4.3)	0.0	C
Colombia	67.4	(2.7)	79.2	(1.6)	20.8	(1.6)	0.0	С
Costa Rica	71.3	(2.9)	87.7	(1.4)	12.3	(1.4)	0.0	C
Croatia	62.6	(2.6)	32.7	(0.8)	67.3	(0.8)	0.0	C
Cyprus*	75.9	(4.1)	88.1	(0.1)	11.9	(0.1)	0.0	С
Dominican Republic	63.2	(3.8)	95.2	(0.5)	4.8	(0.5)	0.0	С
FYROM	71.8	(3.9)	44.9	(0.3)	55.1	(0.3)	0.0	С
Georgia	77.1	(2.7)	98.3	(0.8)	1.7	(0.8)	0.0	С
Hong Kong (China)	69.2	(2.5)	100.0	С	0.0	C	0.0	С
Indonesia	58.3	(3.2)	84.0	(1.3)	16.0	(1.3)	0.0	С
Jordan	73.0	(2.4)	100.0	C (1.5)	0.0	(1.5) C	0.0	С
Kosovo	70.4	(3.0)	64.7	(0.7)	35.3	(0.7)	0.0	С
Lebanon	52.3	(2.8)	100.0	(0.7)	0.0	(0.7) C	0.0	С
Lithuania	66.4	(2.9)	98.5	(0.6)	1.5	(0.6)	0.0	С
	76.7	(4.5)	98.8	(0.6)	1.2	(0.6)	0.0	
Macao (China)	/ 0./		100.0	(U.1) C	0.0	(U.1) C	0.0	C C
Macao (China)	70.0	(4.2)			0.0	C		
Malta	70.0	(4.3)			0.0		0.0	
Malta Moldova	80.7	(2.1)	100.0	С	0.0	С	0.0	C
Malta Moldova Montenegro	80.7 74.5	(2.1) (3.8)	100.0 34.0	C (0.3)	66.0	C (0.3)	0.0	С
Malta Moldova Montenegro Peru	80.7 74.5 63.5	(2.1) (3.8) (2.3)	100.0 34.0 100.0	(0.3) c	66.0 0.0	(0.3) C	0.0	C C
Malta Moldova Montenegro Peru Qatar	80.7 74.5 63.5 60.6	(2.1) (3.8) (2.3) (3.4)	100.0 34.0 100.0 100.0	C (0.3) C C	66.0 0.0 0.0	C (0.3) C C	0.0 0.0 0.0	C C
Malta Moldova Montenegro Peru Qatar Romania	80.7 74.5 63.5 60.6 61.3	(2.1) (3.8) (2.3) (3.4) (2.6)	100.0 34.0 100.0 100.0 100.0	C (0.3) C C	66.0 0.0 0.0 0.0	C (0.3) C C	0.0 0.0 0.0 0.0	C C C
Malta Moldova Montenegro Peru Qatar Romania Russia	80.7 74.5 63.5 60.6	(2.1) (3.8) (2.3) (3.4)	100.0 34.0 100.0 100.0 100.0 95.5	C (0.3) C C	66.0 0.0 0.0	C (0.3) C C	0.0 0.0 0.0	C C
Malta Moldova Montenegro Peru Qatar Romania	80.7 74.5 63.5 60.6 61.3	(2.1) (3.8) (2.3) (3.4) (2.6)	100.0 34.0 100.0 100.0 100.0	C (0.3) C C	66.0 0.0 0.0 0.0	C (0.3) C C C C (1.5)	0.0 0.0 0.0 0.0	C C C
Malta Moldova Montenegro Peru Qatar Romania Russia	80.7 74.5 63.5 60.6 61.3 81.2	(2.1) (3.8) (2.3) (3.4) (2.6) (2.0)	100.0 34.0 100.0 100.0 100.0 95.5	c (0.3) c c c c (1.5)	66.0 0.0 0.0 0.0 4.5 0.0	C (0.3) C C C C (1.5)	0.0 0.0 0.0 0.0 0.0	C C C C
Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei	80.7 74.5 63.5 60.6 61.3 81.2 65.2 63.7	(2.1) (3.8) (2.3) (3.4) (2.6) (2.0) (3.0) (2.8)	100.0 34.0 100.0 100.0 100.0 95.5 100.0 63.7	C (0.3) C C C C (1.5) C (1.3)	66.0 0.0 0.0 0.0 4.5 0.0 36.3	C (0.3) C C C C (1.5) C (1.3)	0.0 0.0 0.0 0.0 0.0 0.0 0.0	c c c c
Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand	80.7 74.5 63.5 60.6 61.3 81.2 65.2 63.7 66.3	(2.1) (3.8) (2.3) (3.4) (2.6) (2.0) (3.0) (2.8) (2.8)	100.0 34.0 100.0 100.0 100.0 95.5 100.0 63.7 82.3	C (0.3) C C C C (1.5) C C (1.3)	66.0 0.0 0.0 0.0 4.5 0.0 36.3	C (0.3) C C C (1.5) C (1.3) (0.8)	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	C C C C C
Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	80.7 74.5 63.5 60.6 61.3 81.2 65.2 63.7 66.3 46.5	(2.1) (3.8) (2.3) (3.4) (2.6) (2.0) (3.0) (2.8) (2.8) (2.5)	100.0 34.0 100.0 100.0 100.0 95.5 100.0 63.7 82.3 100.0	C (0.3) C C C C (1.5) C (1.3) (0.8) C	66.0 0.0 0.0 0.0 4.5 0.0 36.3 17.7	C (0.3) C C C C (1.5) C (1.3) (0.8) C	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	c c c c c c c c c c
Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	80.7 74.5 63.5 60.6 61.3 81.2 65.2 63.7 66.3 46.5	(2.1) (3.8) (2.3) (3.4) (2.6) (2.0) (3.0) (2.8) (2.8) (2.5) (3.9)	100.0 34.0 100.0 100.0 100.0 95.5 100.0 63.7 82.3 100.0 100.0	C (0.3) C C C C (1.5) C (1.3) (0.8) C C	66.0 0.0 0.0 0.0 4.5 0.0 36.3 17.7 0.0 0.0	c (0.3) c c c c (1.5) c (1.3) (0.8) c	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	c c c c c c c c c c c c c c c c c c c
Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	80.7 74.5 63.5 60.6 61.3 81.2 65.2 63.7 66.3 46.5 62.4 58.3	(2.1) (3.8) (2.3) (3.4) (2.6) (2.0) (3.0) (2.8) (2.8) (2.5) (3.9) (2.0)	100.0 34.0 100.0 100.0 100.0 95.5 100.0 63.7 82.3 100.0 100.0 96.1	C (0.3) C C C (1.5) C (1.3) (0.8) C C (0.4)	66.0 0.0 0.0 0.0 4.5 0.0 36.3 17.7 0.0 0.0 3.9	C (0.3) C C C (1.5) C C (1.3) (0.8) C C C (0.4)	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	c c c c c c c c c c c c c c c c c c c
Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	80.7 74.5 63.5 60.6 61.3 81.2 65.2 63.7 66.3 46.5 62.4 58.3 64.5	(2.1) (3.8) (2.3) (3.4) (2.6) (2.0) (3.0) (2.8) (2.8) (2.5) (3.9) (2.0) (2.4)	100.0 34.0 100.0 100.0 100.0 95.5 100.0 63.7 82.3 100.0 100.0 96.1 97.8	C (0.3) C C C C (1.5) C C (1.3) (0.8) C C (0.4) (0.4)	66.0 0.0 0.0 0.0 4.5 0.0 36.3 17.7 0.0 0.0 3.9 1.7	C (0.3) C C C (1.5) C C (1.3) (0.8) C C C C (0.4) (0.3)	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	c c c c c c c c c (0.3)
Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	80.7 74.5 63.5 60.6 61.3 81.2 65.2 63.7 66.3 46.5 62.4 58.3	(2.1) (3.8) (2.3) (3.4) (2.6) (2.0) (3.0) (2.8) (2.8) (2.5) (3.9) (2.0)	100.0 34.0 100.0 100.0 100.0 95.5 100.0 63.7 82.3 100.0 100.0 96.1	C (0.3) C C C (1.5) C (1.3) (0.8) C C (0.4)	66.0 0.0 0.0 0.0 4.5 0.0 36.3 17.7 0.0 0.0 3.9	C (0.3) C C C (1.5) C C (1.3) (0.8) C C C (0.4)	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	c c c c c c c c c c c c c c c c c c c
Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	80.7 74.5 63.5 60.6 61.3 81.2 65.2 63.7 66.3 46.5 62.4 58.3 64.5	(2.1) (3.8) (2.3) (3.4) (2.6) (2.0) (3.0) (2.8) (2.8) (2.5) (3.9) (2.0) (2.4)	100.0 34.0 100.0 100.0 100.0 95.5 100.0 63.7 82.3 100.0 100.0 96.1 97.8	C (0.3) C C C C (1.5) C (1.3) (0.8) C C (0.4) (0.4) (2.0)	66.0 0.0 0.0 0.0 4.5 0.0 36.3 17.7 0.0 0.0 3.9 1.7	C (0.3) C C C (1.5) C C (1.3) (0.8) C C C C (0.4) (0.3)	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	c c c c c c c c c (0.3)
Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	80.7 74.5 63.5 60.6 61.3 81.2 65.2 63.7 66.3 46.5 62.4 58.3 64.5 59.8	(2.1) (3.8) (2.3) (3.4) (2.6) (2.0) (3.0) (2.8) (2.8) (2.5) (3.9) (2.0) (2.4) (3.9)	100.0 34.0 100.0 100.0 100.0 95.5 100.0 63.7 82.3 100.0 100.0 96.1 97.8 94.9	C (0.3) C C C C (1.5) C C (1.3) (0.8) C C (0.4) (0.4)	66.0 0.0 0.0 0.0 4.5 0.0 36.3 17.7 0.0 0.0 3.9 1.7 0.0	C (0.3) C C C C (1.5) C C (1.3) (0.8) C C C (0.4) (0.3) C	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	c c c c c c c c c (0.3) (2.0)

^{1.} Variation in science performance within schools divided by the total variation in science performance (%).
* See note at the beginning of this Annex.
** Coverage is too small to ensure comparability (see Annex A4).
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[Part 1/1]

Table II.5.16 Change between 2009 and 2015 in programme orientation

students' self

		Cha	nge between 2009 and	2015 (PISA 2015 - PISA 2	009)	
			0	ed in a programme whose		
			T .		curriculum is.	Madular
		General		al or vocational		Modular
	% dif.	S.E.	% dif.	S.E.	% dif.	S.E.
Australia Austria Belgium	0.7	(1.3)	-0.7	(1.3)	0.0	С
Austria	m	m (1.9)	m C.4	m (1.0)	m	m
Belgium Canada	6.4 0.0	(1.9) C	- 6.4 0.0	(1.9)	0.0	С
Chile	1.4	(0.2)	-1.4	(0.2)	0.0	C C
Czech Republic	2.3	(1.7)	-2.3	(1.7)	0.0	C
Denmark	0.0	(1.7) C	0.0	C (1.7)	0.0	C
Estonia	0.1	(0.2)	-0.1	(0.2)	0.0	c
Finland	0.1	(0.1)	-0.1	(0.1)	0.0	c
France	-8.6	(1.5)	8.6	(1.5)	0.0	С
Germany	1.2	(0.9)	-1.2	(0.9)	0.0	С
Greece	-2.5	(3.5)	2.5	(3.5)	0.0	С
Hungary	-2.1	(1.2)	2.1	(1.2)	0.0	С
Iceland	0.0	С	0.0	С	0.0	C
Ireland	0.9	(0.4)	-0.9	(0.4)	0.0	С
Israel	0.0	C	0.0	C	0.0	C
Italy	5.0	(1.4)	-5.0	(1.4)	0.0	С
Japan	-0.5	(1.5)	0.5	(1.5)	0.0	C
Korea	8.2	(1.8)	-8.2	(1.8)	0.0	С
Luvombourg	0.0 -3.1	(0.6)	0.0 1.2	(0.6)	0.0	(O 2)
Luxembourg Mexico	-3.1 -3.0	(0.3) (1.2)	3.0	(0.2) (1.2)	1.9 0.0	(0.2)
Netherlands	-3.0 5.5	(3.0)	-5.5	(3.0)	0.0	C C
New Zealand	0.0	(3.0) C	0.0	(3.0) C	0.0	C
Norway	0.0	С	0.0	С	0.0	C
Poland	0.0	(0.1)	0.0	(0.1)	0.0	С
Portugal	2.7	(2.0)	-2.7	(2.0)	0.0	c
Slovak Republic	8.0	(1.6)	-34.9	(1.5)	26.9	(1.2)
Slovenia	-4.4	(0.5)	4.4	(0.5)	0.0	С
Spain	-0.9	(0.1)	0.9	(0.1)	0.0	С
Sweden	0.4	(0.2)	-0.4	(0.2)	0.0	С
Switzerland	-0.7	(1.9)	0.7	(1.9)	0.0	C
Turkey	0.2	(2.0)	-0.2	(2.0)	0.0	С
United Kingdom	-0.8	(0.2)	0.8	(0.2)	0.0	C
United States	0.0	С	0.0	C	0.0	С
OECD average	0.5	(0.2)	-1.3	(0.2)	0.8	(0.0)
A II .	0.7	(1.6)	0.7	(4.6)	0.0	
Albania Algeria Brazil	-0.7	(1.6)	0.7	(1.6)	0.0	С
Algeria	m -4.7	m (1.0)	m	m /1.0)	0.0	m
Brazil B-S-J-G (China)	-4.7 m	(1.0) m	4.7 m	(1.0) m	m	c m
Bulgaria	-8.5	(3.2)	8.5	(3.2)	0.0	C
CABA (Argentina)	m	(5.2) m	m m	m	m	m
Colombia	-2.9	(2.7)	2.9	(2.7)	0.0	C
Costa Rica	-2.9	(2.2)	2.9	(2.2)	0.0	c
Croatia	3.9	(1.3)	-3.9	(1.3)	0.0	c
Cyprus*	m	m	m	m	m	m
Dominican Republic	m	m	m	m	m	m
FYROM	m	m	m	m	m	m
Georgia	-1.7	(0.8)	1.7	(0.8)	0.0	С
Hong Kong (China)	0.0	С	0.0	С	0.0	C
Indonesia	-0.9	(3.0)	0.9	(3.0)	0.0	С
Jordan	0.0	С	0.0	С	0.0	C
Kosovo	m	m	m	m	m	m
Lebanon	m	m (0.6)	m	m	m	m
Lithuania Macao (China)	-1.5	(0.6)	1.5	(0.6)	0.0	c
Macao (China) Malta	0.2 0.0	(0.1)	-0.2 0.0	(0.1)	0.0	C C
Moldova	0.0	C C	0.0	C C	0.0	C
Montenegro	-0.7	(1.2)	0.0	(1.2)	0.0	C
	0.0	(1.2) C	0.0	C C	0.0	C
Peru				c	0.0	c
Peru Oatar	0.0		().()		0.0	
Qatar	0.0 21.9	C	0.0 -21.9	(0.6)	0.0	C
Qatar Romania	21.9	C (0.6)	-21.9	(0.6) (2.2)	0.0	C C
Qatar		C		(2.2)	0.0 0.0 0.0	
Qatar Romania Russia Singapore	21.9 0.5	c (0.6) (2.2) c	-21.9 -0.5	(2.2) c	0.0	С
Qatar Romania Russia	21.9 0.5 0.0	(0.6) (2.2)	-21.9 -0.5 0.0	(2.2)	0.0	C C
Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	21.9 0.5 0.0 2.6	c (0.6) (2.2) c (1.9)	-21.9 -0.5 0.0 -2.6	(2.2) c (1.9)	0.0 0.0 0.0	с с с
Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	21.9 0.5 0.0 2.6 3.1 12.5 0.0	C (0.6) (2.2) C (1.9) (1.0) (0.2) C	-21.9 -0.5 0.0 -2.6 -3.1 -12.5 0.0	(2.2) c (1.9) (1.0) (0.2) c	0.0 0.0 0.0 0.0 0.0 0.0	c c c c c
Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	21.9 0.5 0.0 2.6 3.1 12.5 0.0	C (0.6) (2.2) C (1.9) (1.0) (0.2) C (0.4)	-21.9 -0.5 0.0 -2.6 -3.1 -12.5 0.0 3.9	(2.2) c (1.9) (1.0) (0.2) c (0.4)	0.0 0.0 0.0 0.0 0.0 0.0 0.0	C C C C C C
Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	21.9 0.5 0.0 2.6 3.1 12.5 0.0 -3.9 1.0	C (0.6) (2.2) C (1.9) (1.0) (0.2) C (0.4) (0.8)	-21.9 -0.5 0.0 -2.6 -3.1 -12.5 0.0 3.9 0.7	(2.2) c (1.9) (1.0) (0.2) c (0.4) (0.4)	0.0 0.0 0.0 0.0 0.0 0.0 0.0 -1.7	C C C C C C C
Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	21.9 0.5 0.0 2.6 3.1 12.5 0.0	C (0.6) (2.2) C (1.9) (1.0) (0.2) C (0.4)	-21.9 -0.5 0.0 -2.6 -3.1 -12.5 0.0 3.9	(2.2) c (1.9) (1.0) (0.2) c (0.4)	0.0 0.0 0.0 0.0 0.0 0.0 0.0	C C C C C C
Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	21.9 0.5 0.0 2.6 3.1 12.5 0.0 -3.9 1.0	C (0.6) (2.2) C (1.9) (1.0) (0.2) C (0.4) (0.8)	-21.9 -0.5 0.0 -2.6 -3.1 -12.5 0.0 3.9 0.7	(2.2) c (1.9) (1.0) (0.2) c (0.4) (0.4)	0.0 0.0 0.0 0.0 0.0 0.0 0.0 -1.7	C C C C C C C
Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	21.9 0.5 0.0 2.6 3.1 12.5 0.0 -3.9 1.0	C (0.6) (2.2) C (1.9) (1.0) (0.2) C (0.4) (0.8) m	-21.9 -0.5 0.0 -2.6 -3.1 -12.5 0.0 3.9 0.7 m	(2.2) c (1.9) (1.0) (0.2) c (0.4) (0.4) m	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 -1.7	c c c c c c c

Notes: Values that are statistically significant are indicated in bold (see Annex A3).
For Costa Rica, Georgia, Malta and Moldova, the change between the PISA 2009 and PISA 2015 assessments represents change between 2010 and 2015 because these countries implemented the PISA 2009 assessment in 2010 as part of PISA 2009+.
*See note at the beginning of this Annex.
**Coverage is too small to ensure comparability (see Annex A4).
StatLink **ISP** http://dx.doi.org/10.1787/888933436509

[Part 1/3]

Table II.5.17 Enrolment in pre-vocational or vocational programme, science performance and school characteristics

					Enroll	ed in a pre	-vocation	al or vocati	onal prog	ramme				
		All st	udents			-		By sch	ool socio-	economic	profile ¹		1	
	Ave	erage	Varia	bility	Bottom	quarter	Second	quarter	Third	quarter	Тор q	uarter		oottom irter
	%	S.E.	SD.	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	% dif.	S.E
Australia	13.0	(0.8)	33.7	(0.9)	21.2	(2.1)	13.7	(2.0)	10.7	(2.0)	6.6	(1.4)	-14.7	(2.6
Austria	71.4	(0.9)	45.2	(0.4)	91.0	(4.0)	93.6	(3.8)	82.8	(4.7)	18.2	(4.5)	-72.8	(6.6
Belgium	41.4	(1.3)	49.3	(0.2)	66.3	(4.4)	63.5	(4.7)	29.5	(3.8)	6.3	(1.8)	-60.0	(5.1
Canada	0.0	C	0.0	C	0.0	C	0.0	C	0.0	C	0.0	С	0.0	(0.0
Chile	0.6	(0.1)	7.7	(0.7)	1.2	(0.3)	0.8	(0.2)	0.4	(0.2)	0.0	C (4.7)	-1.2	(0.3
Czech Republic	33.3	(1.3)	47.1	(0.5)	33.7	(3.7)	30.5	(6.2)	53.9	(6.9)	14.8	(4.7)	-18.9	(6.0
Denmark Estonia	0.0	(0.1)	0.0 5.3	(1.0)	0.0	(0.5)	0.0	(0.6)	0.0	C C	0.0	(0.2)	-0.3	(0.6
Finland	0.0	(U.1)	0.0	(1.0) C	0.0	(U.5)	0.4	(U.6)	0.0	C	0.2	(U.2)	0.0	(0.0
France	18.7	(0.9)	39.0	(0.7)	47.5	(4.5)	21.4	(4.2)	5.6	(2.8)	0.6	(0.3)	-46.8	(4.6
Germany	2.7	(0.7)	16.3	(1.9)	5.8	(2.7)	3.2	(2.0)	1.9	(1.4)	0.0	(0.5)	-5.8	(2.7
Greece	16.4	(2.6)	37.0	(2.3)	49.5	(9.1)	16.1	(6.0)	0.0	C,	0.1	(0.1)	-49.4	(9.1
Hungary	15.9	(0.6)	36.6	(0.5)	52.1	(3.4)	9.2	(2.7)	2.5	(1.7)	0.0	C	-52.1	(3.4
Iceland	0.0	С	0.0	С	0.0	С	0.0	С	0.0	С	0.0	С	0.0	
Ireland	0.8	(0.2)	8.8	(1.4)	2.2	(1.0)	0.4	(0.2)	0.3	(0.1)	0.2	(0.2)	-2.0	(1.0
Israel	0.0	С	0.0	С	0.0	С	0.0	C	0.0	С	0.0	С	0.0	
Italy	49.7	(1.2)	50.0	(0.0)	90.1	(3.5)	75.9	(4.6)	29.7	(5.1)	2.1	(2.1)	-88.0	(4.2
Japan	24.4	(0.9)	43.0	(0.6)	52.4	(5.6)	37.3	(6.1)	6.1	(3.9)	2.0	(2.3)	-50.4	(6.3
Korea	16.1	(0.4)	36.8	(0.3)	48.0	(4.7)	11.9	(4.5)	1.8	(3.8)	2.7	(3.1)	-45.3	(6.3
Latvia	0.8	(0.4)	9.0	(2.3)	1.1	(1.2)	0.9	(0.9)	0.0	С	1.3	(0.8)	0.1	(1
Luxembourg	15.0	(0.1)	35.7	(0.1)	18.4	(0.1)	24.3	(0.3)	17.3	(0.2)	0.0	С	-18.4	(0.
Mexico	25.3	(1.1)	43.5	(0.6)	11.8	(4.9)	32.3	(7.1)	37.7	(6.2)	19.4	(4.5)	7.7	(7.
Netherlands	26.1	(0.9)	43.9	(0.5)	65.1	(3.4)	34.6	(4.0)	4.5	(2.3)	0.0	С	-65.1	(3.4
New Zealand	0.0	С	0.0	С	0.0	С	0.0	С	0.0	С	0.0	С	0.0	
Norway	0.0	C	0.0	C	0.0	C	0.0	C	0.0	C	0.0	C	0.0	
Poland	0.1	(0.1)	2.9	(1.1)	0.1	(0.1)	0.0	C	0.0	C	0.2	(0.2)	0.1	(0.
Portugal	13.1	(1.1)	33.8	(1.2)	19.9	(1.8)	13.3	(1.7)	12.7	(3.5)	6.7	(1.7)	-13.2	(2.
Slovak Republic	5.7	(0.7)	23.1	(1.3)	15.8	(2.5)	5.6	(1.2)	1.4	(1.2)	0.0	С	-15.8	(2.
Slovenia	57.4	(0.2)	49.5	(0.0)	90.6	(1.9)	95.5	(1.7)	43.4	(2.2)	0.0	(0.0)	-90.6	(1.
Spain	0.9	(0.1)	9.5	(0.7)	1.4	(0.4)	1.5	(0.5)	0.6	(0.3)	0.2	(0.2)	-1.2	(0.
Sweden	0.1	(0.1)	3.7	(1.2)	0.0	С	0.0	С	0.0	(0.0)	0.6	(0.4)	0.6	(0.
Switzerland	9.2	(1.1)	28.9	(1.6)	10.4	(3.8)	10.3	(3.9)	14.6	(3.4)	1.4	(1.0)	-9.0	(3.
Turkey	41.0	(1.9)	49.2	(0.3)	39.4	(10.1)	78.1	(9.7)	37.3	(8.8)	9.4	(5.7)	-30.0	(12.
United Kingdom	0.8	(0.2)	8.7	(1.4)	0.9	(0.5)	0.5	(0.3)	0.6	(0.4)	1.1	(0.6)	0.2	(0.
United States	0.0	С	0.0	С	0.0	С	0.0	С	0.0	С	0.0	С	0.0	
OECD average	14.3	(0.1)	22.8	(0.2)	23.9	(0.6)	19.3	(0.6)	11.3	(0.5)	2.7	(0.3)	-21.2	(0.3
Albania	6.4	(1.5)	24.4	(2.7)	6.5	(3.8)	11.1	(4.9)	4.0	(3.4)	4.3	(3.0)	-2.1	(4.2
Algeria	0.6	(0.6)	8.0	(3.2)	1.8	(2.1)	0.0	(0.3)	0.3	(0.4)	0.5	(0.7)	-1.3	(2.
Brazil	4.7	(1.0)	21.1	(2.0)	0.6	(0.3)	5.3	(2.0)	2.5	(0.9)	10.4	(2.9)	9.8	(2.
B-S-J-G (China)	6.2	(1.1)	24.2	(2.0)	1.0	(0.9)	9.0	(4.3)	7.0	(2.9)	8.0	(2.2)	7.0	(2.
Bulgaria	46.2	(2.0)	49.9	(0.2)	69.2	(6.1)	70.8	(7.4)	31.0	(7.7)	13.8	(5.8)	-55.3	(8.
CABA (Argentina)	13.0	(4.3)	33.7	(4.8)	18.8	(12.2)	15.0	(11.7)	3.4	(12.2)	6.9	(8.5)	-11.9	(14.
Colombia	20.8	(1.6)	40.6	(1.1)	13.2	(3.8)	34.1	(4.6)	22.1	(3.5)	13.7	(3.4)	0.5	(5.
Costa Rica	12.3	(1.4)	32.8	(1.6)	6.2	(2.3)	15.3	(4.0)	12.9	(4.6)	14.6	(3.8)	8.4	(4.
Croatia	67.3	(0.8)	46.9	(0.3)	94.7	(2.4)	91.6	(2.7)	70.0	(5.2)	13.1	(3.5)	-81.5	(4.
Cyprus*	11.9	(0.1)	32.4	(0.1)	47.7	(0.4)	0.0	C	0.0	C	0.0	C	-47.7	(0.
Dominican Republic	4.8	(0.5)	21.4	(1.1)	0.1	(0.1)	0.7	(0.5)	5.9	(4.0)	12.6	(4.1)	12.5	(4.
FYROM	55.1	(0.3)	49.7	(0.0)	72.8	(0.7)	69.3	(0.9)	54.4	(0.8)	24.0	(0.5)	-48.8	(0.
Georgia	1.7	(0.8)	13.0	(3.1)	3.7	(2.1)	3.1	(2.4)	0.0	С	0.0	С	-3.7	(2.
Hong Kong (China)	0.0	(1.2)	0.0	(1.2)	0.0	(4.1)	0.0	(F 4)	0.0	(4.9)	0.0	(F 7)	0.0	/=
Indonesia	16.0	(1.3)	36.7	(1.2)	9.7	(4.1)	19.3	(5.4)	15.4	(4.8)	19.7	(5.7)	10.0	(7.
Jordan Kosovo	35.3	(0.7)	0.0 47.8	(0.2)	0.0 44.9	(4.9)	0.0 44.1	(4.8)	0.0 34.3	(2.3)	0.0 17.8	(1.5)	0.0 -27.1	(4.
Lebanon	0.0	(U.7) C	0.0	(U.2) C	0.0	(4.9) C	0.0	(4.8) C	0.0	(2.3) C	0.0	(1.5) C	0.0	(4.
Lithuania	1.5	(0.6)	12.1	(2.6)	5.0	(2.2)	0.0	(1.3)	0.0	С	0.0	С	-5.0	(2.
Macao (China)	1.2	(0.0)	10.7	(0.3)	2.4	(0.1)	0.9	(0.2)	1.0	(0.2)	0.8	(0.2)	-1.6	(0.
Malta	0.0	(O.1)	0.0	(U.5)	0.0	(0.1) C	0.0	(U.Z)	0.0	(U.Z)	0.0	(0.2) C	0.0	(0.
Moldova	0.0	c	0.0	С	0.0	С	0.0	C	0.0	С	0.0	С	0.0	
Montenegro	66.0	(0.3)	47.4	(0.1)	89.2	(1.0)	87.0	(1.6)	54.4	(0.8)	33.4	(0.7)	-55.8	(1.
Peru	0.0	(0.5) C	0.0	(O.1.)	0.0	C	0.0	(1.0) C	0.0	(O.O)	0.0	(O.7)	0.0	,,,
Qatar	0.0	c	0.0	С	0.0	c	0.0	C	0.0	C	0.0	С	0.0	
Romania	0.0	C	0.0	C	0.0	c	0.0	C	0.0	C	0.0	C	0.0	
Komania	4.5	(1.5)	20.6	(3.4)	10.5	(5.2)	4.8	(2.7)	2.5	(1.6)	0.0	C	-10.5	(5.
	0.0	C	0.0	C	0.0	C	0.0	C	0.0	C	0.0	C	0.0	
Russia	36.3	(1.3)	48.1	(0.4)	61.7	(6.0)	47.4	(7.0)	23.3	(5.8)	13.0	(4.3)	-48.6	(7.
Russia Singapore		(0.8)	38.2	(0.7)	17.3	(3.9)	26.7	(6.9)	25.9	(6.5)	1.0	(1.2)	-16.4	(4.
Russia Singapore Chinese Taipei					0.0	C	0.0	(G.5)	0.0	(G.5)	0.0	C C	0.0	, , ,
Russia Singapore Chinese Taipei Thailand	17.7		().()	C			5.0					_		
Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	17.7 0.0	С	0.0	C C		С	0.0	C	0.0	C	0.0	C	0.0	
Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	17.7 0.0 0.0	C C	0.0	С	0.0		0.0 2.5	(1.7)	0.0 8.5	(2.5)	0.0 3.9		0.0 3.8	(0.
Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	17.7 0.0 0.0 3.9	c c (0.4)	0.0 19.3	C (1.0)	0.0 0.1	(0.0)	2.5	(1.7)	8.5	(2.5)	3.9	(0.4)	3.8	
Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	17.7 0.0 0.0	C C	0.0	(1.0) (1.2)	0.0					(2.5) (0.6)				(0. (0.
Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	17.7 0.0 0.0 3.9 1.7 0.0	C C (0.4) (0.3) C	0.0 19.3 12.8 0.0	(1.0) (1.2) c	0.0 0.1 2.0 0.0	(0.0) (0.8)	2.5 3.2 0.0	(1.7) (1.1) C	8.5 1.2 0.0	(2.5) (0.6) C	3.9 0.2 0.0	(0.4) (0.3)	3.8 -1.8 0.0	(0.
Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	17.7 0.0 0.0 3.9 1.7	(0.4) (0.3)	0.0 19.3 12.8	(1.0) (1.2)	0.0 0.1 2.0	(0.0) (0.8)	2.5 3.2	(1.7) (1.1)	8.5 1.2	(2.5) (0.6)	3.9 0.2	(0.4) (0.3)	3.8 -1.8	

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Notes: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

* Coverage is too small to ensure comparability (see Annex A4).

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[Part 2/3]

Table II.5.17 Enrolment in pre-vocational or vocational programme, science performance and school characteristics

Res	sults based on studer	nts' selt-r	eports			F	. d !		-1						
					By schoo	I location	ea in a pre	e-vocation	al or vocati	onai progi	ramme	By type	of school		
		(few	a or village er than people)	(3 0	wn 00 to) people)	(or	ity ver) people)	City - r	ural area	Pul	blic	Pri	ivate	Private	e – public
		%	S.E.	%	S.E.	%	S.E.	% dif.	S.E.	%	S.E.	%	S.E.	% dif.	S.E.
Q	Australia	21.0	(6.4)	13.7	(1.5)	12.3	(1.0)	-8.7	(6.5)	15.9	(1.2)	8.8	(1.3)	-7.1	(1.8)
OECD	Austria	88.5 22.8	(6.3) (8.4)	74.5 45.7	(2.6)	61.6 34.2	(4.4)	-26.9 11.3	(7.8)	74.3	(1.4)	47.5	(8.8)	-26.8	(9.7)
_	Belgium Canada	0.0	(0.4) C	0.0	(2.2) C	0.0	(3.8) C	0.0	(10.0) C	0.0	W C	0.0	W C	0.0	W C
	Chile	1.0	(0.8)	0.7	(0.2)	0.6	(0.1)	-0.4	(0.8)	1.0	(0.2)	0.4	(0.1)	-0.6	(0.3)
	Czech Republic	3.1	(2.5)	34.7	(2.4)	42.7	(5.0)	39.6	(5.7)	30.4	(1.8)	66.7	(7.6)	36.4	(8.5)
	Denmark Estonia	0.0	С	0.0	(0.2)	0.0	(0.2)	0.0 0.5	(0.2)	0.0	(0.1)	0.0	(1.2)	0.0 1.5	(1.3)
	Finland	0.0	c c	0.0	(U.2) C	0.0	(U.2)	0.0	(U.2)	0.2	(U.1) C	0.0	(1.2) C	0.0	(1.3) C
	France	8.4	(3.5)	20.0	(1.6)	16.7	(3.8)	8.2	(6.0)	19.0	(1.4)	12.8	(2.9)	-6.2	(3.7)
	Germany	0.0	С	4.1	(1.5)	0.0	С	0.0	С	2.9	(1.1)	0.0	С	-2.9	(1.1)
	Greece	8.4 19.4	(8.0) (12.1)	21.6 16.3	(4.2)	8.1 15.2	(2.5)	-0.2 -4.3	(8.2)	17.1 16.1	(2.7) (1.4)	0.0	(3.3)	-17.1 -1.4	(2.7)
	Hungary Iceland	0.0	(12.1) C	0.0	(2.4) C	0.0	(2.4) C	0.0	(12.7) C	0.0	(1.4) C	14.7 m	(3.3) m	-1.4 m	(4.2) m
	Ireland	0.6	(0.3)	0.7	(0.5)	1.1	(0.4)	0.6	(0.5)	1.1	(0.5)	0.5	(0.2)	-0.5	(0.6)
	Israel	0.0	С	0.0	С	0.0	С	0.0	С	m	m	m	m	m	m
	Italy	97.3 m	(2.7) m	47.1 26.8	(3.3)	43.2 23.6	(5.8)	-54.1 m	(6.9) m	46.2 30.4	(2.3)	56.2 11.6	(13.4)	10.0 -18.8	(14.2)
	Japan Korea	m	m m	20.2	(6.3)	15.7	(0.9)	m m	m m	16.3	(2.1)	15.8	(3.8)	-0.5	(5.9)
	Latvia	1.0	(1.0)	0.6	(0.4)	1.0	(1.0)	0.0	(1.4)	0.8	(0.4)	0.0	(3.0) C	-0.8	(0.4)
	Luxembourg	m	m	16.0	(0.1)	13.0	(0.1)	m	m	14.7	(0.1)	16.8	(0.2)	2.2	(0.2)
	Mexico Netherlands	2.4	(2.3)	25.4	(3.9)	32.5	(3.0)	30.2	(3.9)	27.7	(1.3)	8.5	(4.4)	-19.2	(5.1)
	New Zealand	0.0	m C	29.8	(2.6) C	19.3 0.0	(5.2) C	0.0	m c	25.1 0.0	(4.4) C	26.1	(2.9) c	1.0	(6.1) c
	Norway	0.0	С	0.0	С	0.0	c	0.0	С	0.0	c	0.0	c	0.0	С
	Poland	0.0	С	0.1	(0.1)	0.1	(0.1)	0.1	(0.1)	0.1	(0.1)	0.0	С	-0.1	(0.1)
	Portugal	13.4	(4.3)	13.4	(1.0)	7.7	(2.1)	-5.8	(4.4)	12.0	(0.8)	17.3	(6.7)	5.4	(6.8)
	Slovak Republic Slovenia	3.6 43.0	(2.0)	6.8 57.9	(0.9)	2.3 59.6	(1.8)	-1.3 16.6	(2.8)	4.6 59.0	(0.9)	14.1	(5.4) C	9.5 -59.0	(6.1)
	Spain	1.1	(1.3)	1.2	(0.2)	0.4	(0.2)	-0.7	(1.3)	1.2	(0.2)	0.2	(0.1)	-1.1	(0.2)
	Sweden	0.0	С	0.1	(0.1)	0.2	(0.2)	0.2	(0.2)	0.2	(0.1)	0.0	С	-0.2	(0.1)
	Switzerland	4.0	(3.3)	7.7	(1.9)	15.1	(3.9)	11.1	(5.1)	8.1	(1.3)	19.0	(3.6)	10.9	(4.0)
	Turkey United Kingdom	45.9 2.3	(28.0)	33.4 0.8	(5.7)	45.2 0.5	(3.5) (0.4)	-0.6 -1.8	(28.3)	40.5 0.7	(1.9)	45.1 1.5	(24.8)	4.5 0.7	(25.2)
	United States	0.0	(2.2) C	0.0	(O.4)	0.0	(O.4)	0.0	(Z.Z)	0.0	(0.5)	0.0	(2.3) C	0.0	(2.3) C
	OECD average	12.5	(1.1)	14.9	(0.4)	13.5	(0.4)	0.4	(1.2)	14.7	(0.3)	12.3	(1.0)	-2.8	(1.1)
LS.	Albania	2.1	(2.1)	5.8	(2.4)	10.8	(4.0)	8.7	(5.1)	7.2	(1.6)	0.0	С	-7.2	(1.6)
Partners	Algeria	0.0	C	1.0	(0.9)	0.0	C	0.0	C	0.7	(0.6)	m	m	m	m
Par	Brazil B-S-J-G (China)	0.2	(2.6)	6.1 2.9	(1.5)	2.3 12.7	(0.9)	-0.4 12.5	(2.7)	5.6 6.8	(1.4)	1.6	(1.1)	-4.0 -4.5	(1.7)
	Bulgaria	42.7	(14.9)	47.5	(3.4)	44.6	(3.9)	1.9	(15.8)	45.9	(2.0)	m	(1.0) m	-4.5 m	(2.3) m
	CABA (Argentina)	m	m	m	m	12.7	(4.8)	m	m	21.4	(8.3)	5.3	(2.9)	-16.0	(8.8)
	Colombia	21.3	(5.6)	22.3	(3.2)	21.0	(2.5)	-0.3	(6.3)	25.0	(2.4)	12.1	(2.9)	-12.9	(4.0)
	Costa Rica	13.1	(3.9)	11.9	(2.0)	11.8	(4.4)	-1.4	(6.2)	13.6	(1.6)	2.5	(2.6)	-11.1	(3.3)
	Croatia Cyprus*	7.6	m (0.7)	71.0 12.4	(1.8)	61.3 11.7	(2.5)	m 4.1	m (0.7)	68.4 12.4	(1.0)	21.9 9.5	(19.3)	-46.6 -2.9	(19.7)
	Dominican Republic	1.3	(0.8)	3.9	(1.8)	10.5	(4.3)	9.2	(4.5)	5.4	(0.6)	3.5	(1.4)	-1.9	(1.6)
	FYROM	24.0	(0.3)	54.4	(0.4)	61.7	(0.5)	37.6	(0.6)	56.9	(0.3)	0.0	C	-56.9	(0.3)
	Georgia	0.0	c m	5.5 m	(2.8)	0.5	(0.3)	0.5 m	(0.3)	1.7 0.0	(0.9)	2.1	(1.6)	0.4	(1.9)
	Hong Kong (China) Indonesia	m 12.0	(4.0)	17.5	m (2.9)	19.7	(4.9)	7.7	m (6.8)	10.3	(1.7)	24.3	(2.1)	13.9	(2.8)
	Jordan	0.0	(1.0) C	0.0	(2.3) C	0.0	(4.5) C	0.0	(0.0) C	0.0	C C	0.0	(2.1) C	0.0	(2.0) C
	Kosovo	7.1	(0.4)	34.4	(1.2)	52.5	(1.9)	45.3	(2.0)	35.1	(0.5)	44.6	(17.3)	9.5	(17.2)
	Lebanon Lithuania	0.0	c c	0.0 1.7	(0.4)	0.0 2.0	(1.6)	0.0 2.0	(1.6)	0.0 1.5	(0.7)	0.0	C C	0.0 -1.5	(0.7)
	Macao (China)	m	m	m	(0.4) m	1.2	(0.1)	2.0 m	(1.6) m	1.5 m	(0.7) m	0.0	(0.1)	-1.5 m	(0.7) m
	Malta	0.0	С	0.0	С	m	m	m	m	0.0	С	0.0	C	0.0	С
	Moldova	0.0	С	0.0	C	0.0	C (1.0)	0.0	С	0.0	C (0.2)	m	m	m	m
	Montenegro Peru	0.0	m C	58.3 0.0	(0.3) c	81.5 0.0	(1.0) C	0.0	m C	65.8 0.0	(0.3) C	0.0	m C	0.0	m C
	Qatar	0.0	c	0.0	С	0.0	c	0.0	C	0.0	C	0.0	C	0.0	C
	Romania	0.0	c	0.0	С	0.0	С	0.0	С	0.0	С	m	m	m	m
	Russia	0.0	С	7.1	(3.8)	3.9	(1.5)	3.9	(1.5)	4.0	(1.5)	m	m	m	m
	Singapore Chinese Taipei	m m	m	m 41.0	m (3.7)	0.0 33.8	(2.5)	m	m	0.0 21.5	(O 9)	0.0 65.1	(3.2)	0.0 43.7	(3.3)
	Thailand	20.2	m (7.1)	16.0	(3.7)	15.1	(2.5)	-5.2	m (10.6)	14.3	(0.9)	38.2	(3.2)	23.9	(3.5)
	Trinidad and Tobago	0.0	(7.17) C	0.0	(1.0) C	m	m	m	m	0.0	(0.0) C	0.0	(3.5) C	0.0	(5.5) C
	Tunisia	0.0	C	0.0	C	0.0	C	0.0	С	0.0	C	0.0	C	0.0	C
	United Arab Emirates	0.3	(0.1)	3.8	(0.4)	1.8	(0.8)	1.5	(0.8)	4.5	(1.5)	0.7	(0.4)	-3.8	(1.8)
	Uruguay Viet Nam	0.0	C C	2.0 0.0	(0.6) c	1.4 0.0	(0.3) c	1.4 0.0	(0.3) c	2.0 0.0	(0.4) C	0.0	C C	-2.0 0.0	(0.4) C
	Argentina**	8.2	(7.4)	18.3	(3.7)	15.9	(4.1)	7.8	(8.5)	21.0	(3.3)	1.5	(0.6)	-19.5	(3.4)
	Kazakhstan**	5.1	(2.4)	10.8	(4.6)	22.7	(4.4)	17.6	(4.9)	10.7	(2.0)	91.8	(9.7)	81.1	(10.1)
_	Malaysia**	11.0	(2.9)	9.3	(2.1)	10.8	(1.9)	-0.2	(3.5)	11.1	(1.3)	0.0	С	-11.1	(1.3)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Notes: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

* Coverage is too small to ensure comparability (see Annex A4).

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[Part 3/3]

Table II.5.17 Enrolment in pre-vocational or vocational programme, science performance and school characteristics

						Enroll	ed in a pro	e-vocationa	al or vocat	ional progi	ramme				
				By educa	tion level					ing for stu economic		After and sch	accounti ools' socie	ng for stud o-economic	lents' c profile
		educ	econdary cation ED 2)		econdary ation ED 3)	ISCED 3	- ISCED 2	score (re	n science eference: modular mmes)	in stu	l variance udent mance ed x 100)	Change in score (re general/ progra	ference: modular	in stu	d variance udent mance ed x 100)
		%	S.E.	%	S.E.	% dif.	S.E.	Score dif.	S.E.	%	S.E.	Score dif.	S.E.	%	S.E.
Q	Australia	9.3	(0.8)	35.9	(1.8)	26.6	(1.9)	-31	(5.0)	1.1	(0.3)	-12	(4.1)	16.6	(1.1)
OECD	Austria	6.8	(4.6)	72.7	(0.8)	65.9	(4.7)	-72	(5.6)	11.2	(1.6)	-4	(6.3)	31.3	(1.8)
0	Belgium Canada	29.9	(3.8) c	42.6 0.0	(1.4) C	12.7 0.0	(4.1) C	-88 m	(3.8) m	19.0	(1.6) c	-41 m	(4.1) m	40.0 11.7	(1.8)
	Chile	0.0	С	0.6	(0.1)	0.6	(0.1)	-5	(13.9)	0.0	(0.0)	25	(13.1)	26.3	(1.6)
	Czech Republic	1.0	(0.6)	71.6	(1.2)	70.6	(1.4)	-23	(5.3)	1.4	(0.6)	-6	(4.2)	33.6	(2.1)
	Denmark	0.0	С	0.0	С	0.0	С	m	m	0.0	С	m	m	12.3	(1.3)
	Estonia	0.0	С	21.1	(7.4)	21.1	(7.4)	С	С	0.0	(0.1)	С	С	11.0	(1.3)
	Finland	0.0	C (2.4)	m	m	m	m	m	m	0.0	C (1.7)	m	m	11.0	(1.3)
	France Germany	18.8	(2.4)	18.7 61.2	(0.9)	0.0 60.8	(2.6)	-104 -47	(5.1) (13.4)	15.9 0.5	(1.7)	-43 -2	(6.3) (14.7)	40.5 34.0	(1.7)
	Greece	0.0	(0.2) C	17.2	(2.7)	17.2	(2.7)	-102	(6.2)	16.9	(3.0)	-62	(6.0)	28.3	(2.8)
	Hungary	0.0	С	17.8	(0.6)	17.8	(0.6)	-101	(5.7)	14.5	(1.5)	-26	(7.3)	44.2	(1.9)
	Iceland	0.0	С	m	m	m	m	m	m	0.0	С	m	m	5.1	(0.8)
	Ireland	0.0	С	2.1	(0.7)	2.1	(0.7)	-129	(12.7)	1.6	(0.6)	-97	(11.6)	15.8	(1.4)
	Israel	0.0	С	0.0	(1.2)	0.0	(1.2)	m	m (4.0)	0.0	(1.6)	m	m (6.2)	23.1	(2.4)
	Italy Japan	0.0 m	c m	50.3 24.4	(1.2)	50.3 m	(1.2) m	-58 -43	(4.9)	10.1	(1.6)	-3 15	(6.3)	23.5 28.4	(2.2)
	Korea	0.0	m C	17.7	(0.4)	17.7	(0.4)	-43	(9.5)	8.6	(2.0)	-36	(9.5)	19.3	(2.4)
	Latvia	0.0	С	22.1	(9.2)	22.1	(9.2)	C	(5.5) C	0.0	(0.0)	C	(3.3) C	12.5	(1.4)
	Luxembourg	0.0	c	34.5	(0.1)	34.5	(0.1)	-1	(2.9)	0.0	(0.0)	35	(2.9)	35.9	(1.0)
	Mexico	0.0	С	41.5	(1.4)	41.5	(1.4)	23	(4.9)	2.0	(0.9)	20	(4.2)	18.9	(1.9)
	Netherlands	36.9	(1.3)	0.0	С	-36.9	(1.3)	-140	(3.6)	37.2	(1.6)	-91	(6.3)	48.8	(2.0)
	New Zealand Norway	0.0	С	0.0	C	0.0	C	m	m	0.0	C	m	m	18.7 8.6	(1.5)
	Poland	0.0	C C	m m	m m	m m	m m	m C	m C	0.0	(0.0)	m C	m C	15.6	(1.0)
	Portugal	13.8	(1.0)	12.8	(1.6)	-0.9	(1.9)	-65	(8.5)	5.7	(1.2)	-43	(6.5)	22.0	(1.9)
	Slovak Republic	0.0	C	10.8	(1.3)	10.8	(1.3)	-97	(6.4)	5.2	(0.9)	-56	(8.7)	31.9	(2.3)
	Slovenia	0.0	C	60.5	(0.1)	60.5	(0.1)	-87	(2.8)	20.5	(1.3)	-10	(4.8)	35.5	(1.2)
	Spain	0.9	(0.1)	m	m	m	m	-93	(12.1)	1.0	(0.3)	-71	(11.5)	14.9	(1.2)
	Sweden	0.0	С	7.4	(6.3)	7.4	(6.3)	C 20	(6 E)	0.2	(0.2)	C	(9.4)	16.4	(1.7)
	Switzerland Turkey	0.0	C C	40.0 42.4	(4.6)	40.0 42.4	(4.6)	-61	(6.5) (7.1)	14.1	(0.4)	-42	(8.4)	26.8 32.5	(1.9)
	United Kingdom	0.0	c	0.8	(0.2)	0.8	(0.2)	-9	(14.8)	0.0	(0.0)	-13	(8.2)	17.8	(1.6)
	United States	0.0	С	0.0	C	0.0	C	m	m	0.0	C	m	m	14.2	(1.5)
	OECD average	3.5	(0.2)	24.2	(0.6)	20.2	(0.7)	-60	(1.7)	5.5	(0.2)	-22	(1.6)	23.6	(0.3)
S	Albania	0.0	С	10.1	(2.4)	10.1	(2.4)	m	m	m	m	m	m	m	m
ne.	Algeria	0.0	С	2.8	(2.6)	2.8	(2.6)	С	С	1.7	(1.5)	С	С	10.8	(3.0)
Partners	Brazil	0.0	C	6.0	(1.2)	6.0	(1.2)	74	(10.7)	3.2	(1.1)	58	(8.2)	25.2	(2.1)
_	B-S-J-G (China)	0.0	C	16.9	(2.8)	16.9	(2.8)	-24	(8.3)	0.3	(0.2)	-42	(6.5)	35.6	(3.0)
	Bulgaria CABA (Argentina)	12.0	(4.3)	47.7 26.1	(2.0)	47.7 14.1	(2.0)	-62 -2	(8.6) (18.1)	9.2	(2.6) (0.4)	-14 15	(7.6) (8.7)	38.7 32.5	(2.8)
	Colombia	0.0	(4.5) C	34.9	(2.7)	34.9	(2.7)	21	(5.4)	1.1	(0.6)	27	(4.1)	23.1	(2.5)
	Costa Rica	0.0	C	26.2	(2.4)	26.2	(2.4)	24	(6.2)	1.3	(0.7)	22	(4.2)	23.5	(2.1)
	Croatia	m	m	67.5	(0.8)	m	m	-95	(4.5)	24.9	(1.8)	-55	(4.9)	30.4	(2.0)
	Cyprus*	0.0	С	12.7	(0.1)	12.7	(0.1)	-93	(3.5)	10.5	(0.7)	-50	(3.8)	19.6	(0.9)
	Dominican Republic	0.0	C	6.1	(0.6)	6.1	(0.6)	75	(6.2)	4.9	(1.0)	44	(7.6)	27.1	(2.9)
	FYROM Georgia	0.0	m C	55.2 2.2	(0.2)	2.2	m (1.0)	-44 -90	(2.6)	6.6	(0.7)	-21 -59	(2.6)	17.3 15.6	(1.2)
	Hong Kong (China)	0.0	C	0.0	(1.0) C	0.0	(1.0) C	-90 m	(11.0) m	0.0	(0.9) C	-39 m	(10.5) m	12.8	(1.8)
	Indonesia	0.0	С	33.6	(2.7)	33.6	(2.7)	6	(7.0)	0.1	(0.3)	5	(5.3)	23.5	(3.0)
	Jordan	0.0	С	m	m	m	m	m	m	0.0	С	m	m	12.4	(2.2)
	Kosovo	0.0	С	47.4	(0.8)	47.4	(0.8)	-34	(2.7)	5.1	(0.8)	-25	(3.0)	17.0	(1.4)
	Lebanon	0.0	(O, 6)	0.0	C	0.0	C	m	m	0.0	(1.4)	m	m	18.9	(3.0)
	Lithuania Macao (China)	1.5 0.0	(0.6) C	m 2.1	(0.1)	m 2.1	(0.1)	-51	(11.2)	0.5	(0.2)	-45	C (11.4)	22.2	(2.4)
	Malta	m	m	0.0	(U.1)	m	(0.1) m	m	(11.2) m	0.0	(U.2)	m	(11.4) m	24.4	(1.1)
	Moldova	0.0	C	0.0	c	0.0	C	m	m	0.0	C	m	m	14.1	(1.7)
	Montenegro	0.0	С	67.8	(0.1)	67.8	(0.1)	-64	(2.7)	12.6	(1.0)	-35	(3.3)	19.8	(1.0)
	Peru	0.0	С	0.0	С	0.0	С	m	m	0.0	С	m	m	30.0	(2.2)
	Qatar Romania	0.0	С	0.0 m	c m	0.0 m	c m	m m	m	0.0	С	m m	m	13.9	(0.6)
	Russia	0.0	C C	33.1	(7.9)	33.1	(7.9)	-24	m (11.6)	0.0	(0.4)	-3	m (10.5)	9.7	(1.8)
	Singapore	0.0	C	0.0	(7.9) C	0.0	(7.9) C	m	(11.0) m	0.0	(U.4) C	m	m	26.1	(1.6)
	Chinese Taipei	0.0	c	56.3	(1.8)	56.3	(1.8)	-72	(5.4)	12.1	(1.5)	-37	(3.9)	31.1	(2.4)
	Thailand	0.0	С	23.5	(1.1)	23.5	(1.1)	-51	(4.6)	6.1	(1.0)	-37	(4.7)	21.1	(2.7)
	Trinidad and Tobago	0.0	С	0.0	C	0.0	С	m	m	0.0	C	m	m	37.5	(1.1)
	Tunisia United Arab Emirates	0.0	C C	0.0 4.5	(0.5)	0.0 4.5	(0.5)	-36	m (7.2)	0.0	(0.2)	-53	m (8.0)	19.5 15.5	(3.0)
	Uruguay Emirates	0.0	C	2.7	(0.5)	2.7	(0.5)	-8	(8.8)	0.5	(0.2)	15	(9.5)	26.3	(1.8)
	Viet Nam	0.0	С	0.0	(U.J)	0.0	(0.5)	m	(0.0) m	0.0	(0.0) C	m	(5.5) m	19.6	(4.3)
÷	Argentina**	16.4	(3.1)	16.8	(2.7)	0.4	(2.4)	1	(8.8)	0.0	(0.1)	6	(5.6)	19.3	(2.2)
	Kazakhstan**	0.0	(J.1)	0.0	(2.7) C	0.0	(2.4) C	-44	(9.3)	4.0	(1.6)	-43	(8.9)	12.5	(2.6)
	Malaysia**	0.0	С	10.8	(1.3)	10.8	(1.3)	-15	(6.7)	0.4	(0.3)	-6	(4.6)	18.3	(2.4)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Notes: Values that are statistically significant are indicated in bold (see Annex A3).

** See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/2]

Table II.5.18 School admissions policies

	s based on schoo	'	<u> </u>	<u> </u>	onto in o	ر مامماء ب	ula ouo tla	o followi	na facto	ana #r		comotine		almana"	consido	und fou	dunicaia	n to colo	o o la
			rcentage dent's rec	-				e tollowi	ng tacto	Recomm		sometim	ies" or "	, , , , , , , , , , , , , , , , , , ,				instruct	
		Situ		uding pla			ance				r schools							the scho	
		Ne	ever	Some	etimes	Alv	vays	Ne	ever	Some	etimes	Alv	vays	Ne	ever	Som	etimes	Alv	ways
		%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
	stralia stria	25.7 15.0	(2.1)	40.4 11.2	(2.2)	34.0 73.8	(1.9)	18.3 47.8	(1.5)	46.8	(2.5)	34.9 10.7	(2.3)	45.5 72.6	(1.7)	22.3 15.9	(1.7)	32.3 11.5	(1.7)
	lgium	41.9	(3.2)	29.8	(3.0)	28.4	(2.8)	53.7	(3.1)	38.4	(3.4)	8.0	(1.7)	37.8	(2.9)	20.7	(2.7)	41.5	(2.9)
	nada	36.7	(2.7)	32.8	(2.7)	30.5	(2.9)	28.1	(2.6)	42.5	(2.6)	29.4	(2.9)	57.3	(3.0)	24.9	(2.4)	17.9	(2.1)
Chi		49.4 30.9	(3.0)	33.4	(3.4)	17.3	(2.8)	64.5 55.2	(3.5)	29.7	(3.0)	5.9	(1.8)	71.2	(3.5)	12.0	(2.5)	16.9 16.2	(3.1)
	ech Republic nmark	64.7	(1.9)	15.5 26.3	(2.1)	53.6 9.0	(1.6)	48.7	(3.2)	34.6 45.0	(3.1)	6.3	(1.9)	53.0	(2.5)	12.7 25.8	(2.0)	21.3	(2.2)
	onia	28.6	(2.5)	43.9	(2.5)	27.5	(1.8)	40.1	(2.5)	57.5	(2.5)	2.4	(0.8)	51.5	(2.8)	33.5	(2.7)	15.0	(2.0)
	land	78.5	(3.2)	16.0	(3.0)	5.5	(1.1)	75.8	(3.3)	19.7	(2.9)	4.5	(1.7)	79.7	(3.1)	13.2	(2.7)	7.1	(1.9)
Frai	nce rmany	33.3	(3.3)	32.8	(2.7)	33.9	(3.1)	51.7	(3.1)	42.7	(3.2)	5.6	(1.5)	72.1	(2.1)	10.1	(1.9)	17.9	(1.9)
	eece	77.3	(2.9)	30.5 16.4	(3.3)	47.8 6.3	(3.9)	61.8	(2.8)	45.1 30.2	(3.5)	34.1 7.9	(3.2)	66.3 82.4	(3.2)	20.6 7.4	(3.0)	13.2	(1.9)
Hui	ngary	5.8	(0.8)	12.9	(2.1)	81.3	(2.2)	46.5	(3.0)	45.9	(3.1)	7.6	(1.9)	46.3	(3.1)	20.1	(2.7)	33.6	(3.0)
_	land	66.1	(0.3)	18.2	(0.2)	15.7	(0.2)	29.9	(0.3)	48.3	(0.3)	21.8	(0.2)	81.2	(0.2)	12.4	(0.2)	6.4	(0.1)
	land	63.5	(4.1)	14.3 30.3	(2.8)	22.3 52.0	(3.3)	49.9 12.1	(4.2)	23.6	(3.5)	26.5 37.3	(3.6)	51.1	(3.8)	20.3	(3.5)	28.6	(3.8)
Isra Ital		24.9	(2.8)	25.9	(3.4)	49.2	(3.8)	15.6	(2.7)	32.7	(3.7)	51.7	(3.7)	37.7 28.7	(2.8)	16.3	(2.7)	55.0	(3.5)
Japa	,	0.5	(0.5)	7.2	(2.0)	92.3	(1.8)	36.6	(3.6)	29.7	(3.5)	33.7	(3.5)	72.7	(3.1)	16.8	(3.0)	10.5	(2.2)
Kor		43.0	(3.4)	12.3	(2.6)	44.7	(3.3)	58.2	(3.9)	26.0	(3.5)	15.8	(2.9)	62.3	(4.0)	16.8	(3.1)	20.9	(3.1)
Latv		38.8	(2.9)	30.7	(2.8)	30.5	(2.3)	53.0	(3.0)	41.9	(2.8)	5.1	(1.2)	77.8	(2.0)	16.3	(1.9)	5.9	(1.1)
	xembourg exico	8.3	(0.1)	16.8 16.1	(0.1)	74.9 59.6	(0.1)	16.9 62.3	(0.1)	59.2 23.5	(0.1)	23.8	(0.1)	52.8 78.3	(0.1)	28.1	(0.1)	19.0 10.1	(0.1)
	therlands	6.3	(2.0)	19.1	(3.6)	74.5	(3.9)	2.7	(1.6)	9.8	(3.2)	87.5	(3.5)	41.6	(3.9)	35.4	(5.1)	23.0	(3.9)
Nev	w Zealand	38.1	(3.6)	24.0	(2.9)	37.8	(4.0)	32.0	(3.3)	30.6	(3.3)	37.3	(3.9)	50.9	(3.9)	21.0	(3.5)	28.1	(3.6)
	rway	91.7	(2.3)	2.8	(1.2)	5.6	(1.9)	81.7	(3.0)	13.3	(2.5)	5.0	(1.8)	97.9	(1.0)	0.0	С	2.1	(1.0)
	and	41.4	(3.6)	41.8	(4.3)	16.8	(3.1)	46.4	(3.9)	50.1	(4.1)	3.5	(1.4)	79.1	(3.2)	15.5	(3.0)	5.4	(1.6)
	rtugal vak Republic	35.6 30.7	(3.7)	33.5 12.4	(3.6)	30.9 57.0	(3.5)	55.6 48.2	(3.7)	38.9 41.6	(3.6)	5.5	(1.6)	37.4 64.1	(3.6)	24.0	(3.1)	38.6 21.8	(3.4)
	venia	28.6	(0.4)	38.8	(0.3)	32.6	(0.3)	65.8	(0.6)	29.8	(0.6)	4.3	(0.2)	92.2	(0.2)	4.9	(0.2)	2.9	(0.0)
Spa	in	80.9	(2.8)	13.8	(2.5)	5.3	(1.6)	81.8	(3.0)	11.6	(2.3)	6.6	(2.0)	77.1	(2.6)	9.0	(2.0)	13.9	(2.3)
	eden	87.5	(2.4)	6.4	(1.9)	6.0	(1.7)	75.4	(3.2)	19.4	(3.1)	5.1	(1.7)	82.2	(2.8)	10.4	(2.2)	7.4	(2.1)
	itzerland	24.1	(3.8)	18.0	(3.2)	57.9	(4.1)	28.9	(3.8)	35.8	(3.7)	35.3	(3.3)	82.2	(3.0)	14.6	(3.0)	3.2	(0.9)
Turl	key ited Kingdom	7.5 69.7	(1.9)	15.5 9.2	(3.3)	77.0	(3.4)	70.6 63.5	(3.6)	23.3	(3.3)	15.5	(1.7)	30.4 70.9	(3.9)	46.8 17.3	(4.2)	22.8 11.8	(3.3)
	ited States	47.4	(4.2)	21.9	(3.3)	30.7	(3.5)	50.4	(3.8)	27.3	(3.8)	22.3	(3.1)	70.6	(3.7)	17.1	(3.2)	12.3	(2.8)
OE	CD average	39.6	(0.5)	22.0	(0.5)	38.4	(0.5)	47.2	(0.5)	34.5	(0.5)	18.3	(0.4)	63.6	(0.5)	18.0	(0.5)	18.4	(0.4)
A II.		157	(2.6)	245	(2.0)	F0.0	(2.2)	146	(2.6)	22.6	(2.5)	(2.0	(2.6)	41.2	(2.0)	147	(2.2)	42.0	(4.0)
S Alo	oania geria	15.7	(2.6)	24.5	(2.9)	59.9 62.2	(3.2)	14.6 35.2	(2.6)	22.6 41.2	(3.5)	62.8	(3.6)	41.3 76.4	(3.9)	14.7	(2.2)	43.9	(4.0)
Alg Bra		56.5	(2.8)	19.9	(2.2)	23.6	(2.3)	69.3	(2.6)	23.1	(2.3)	7.6	(1.3)	60.0	(2.7)	19.4	(2.2)	20.6	(1.9)
B-S	5-J-G (China)	36.0	(3.1)	23.8	(3.1)	40.2	(3.4)	43.4	(4.0)	46.7	(4.3)	9.9	(2.3)	17.3	(2.9)	31.7	(4.3)	51.0	(4.6)
	lgaria	3.9	(1.1)	13.0	(2.4)	83.1	(2.4)	38.8	(3.6)	42.9	(4.0)	18.3	(2.9)	38.2	(3.7)	25.0	(3.6)	36.8	(3.7)
	BA (Argentina)	33.4	(6.1)	34.4	(7.5)	32.2 49.9	(6.2)	41.7	(6.4)	53.7	(6.2)	4.6	(2.7)	40.4	(6.4)	16.6	(5.0)	43.0	(7.0)
	lombia sta Rica	19.0	(2.9)	25.8 33.2	(3.5)	47.8	(3.7)	34.4	(3.7)	33.5 41.5	(3.3)	17.3	(2.7)	63.9 55.4	(3.2)	13.4 25.4	(2.5)	19.3	(2.8)
	oatia	2.5	(1.3)	2.1	(1.3)	95.4	(1.8)	57.1	(3.9)	32.4	(4.0)	10.5	(2.4)	65.9	(3.6)	13.3	(2.7)	20.8	(3.0)
Cyp	prus*	59.5	(0.1)	17.7	(0.1)	22.8	(0.1)	70.1	(0.1)	19.4	(0.1)	10.5	(0.1)	85.2	(0.1)	4.8	(0.1)	10.0	(0.1)
	minican Republic	49.0	(3.5)	19.8	(2.7)	31.1	(3.3)	26.9	(3.5)	26.9	(3.8)	46.1	(4.3)	84.2	(2.7)	8.3	(2.1)	7.5	(2.0)
	ROM orgia	16.0 37.2	(0.1)	14.9 33.2	(0.1)	69.1	(0.2)	27.1 31.4	(0.2)	49.2	(0.2)	23.7	(0.1)	56.3 67.2	(0.2)	24.6 13.9	(0.1)	19.1	(0.1)
	ng Kong (China)	0.0	(3.0) C	6.3	(1.3)	93.7	(1.3)	6.5	(2.4)	52.5	(4.8)	40.9	(4.5)	20.0	(3.9)	52.6	(4.4)	27.4	(4.2)
	lonesia	9.9	(2.0)	25.5	(3.2)	64.6	(3.3)	29.6	(2.9)	27.2	(3.0)	43.2	(3.0)	25.5	(3.2)	16.3	(2.5)	58.2	(3.2)
Jord		21.0	(2.7)	51.4	(3.6)	27.7	(3.5)	29.5	(3.3)	47.9	(3.6)	22.5	(3.2)	38.6	(3.3)	37.0	(3.2)	24.4	(2.9)
	sovo panon	5.0	(0.9)	17.3	(1.2)	77.8	(1.3)	27.2	(1.0)	33.2	(1.1)	39.6 32.7	(1.4)	52.4	(1.4)	33.8	(1.2)	13.8	(1.4)
	oanon nuania	3.0	(1.2)	19.1 32.8	(2.3)	77.9 27.1	(2.6)	21.3 43.9	(2.9)	46.0 51.9	(2.8)	4.3	(2.6)	50.4 32.9	(3.4)	29.0	(3.4)	20.6 42.3	(2.7)
	cao (China)	2.3	(0.1)	18.3	(0.0)	79.3	(0.0)	2.7	(0.0)	63.2	(0.1)	34.2	(0.0)	14.3	(0.0)	68.0	(0.1)	17.7	(0.1)
Mal	lta	53.4	(0.1)	11.2	(0.1)	35.4	(0.1)	59.0	(0.1)	22.8	(0.1)	18.2	(0.1)	57.8	(0.1)	13.3	(0.1)	29.0	(0.1)
	ldova	37.6	(3.3)	14.6	(2.7)	47.7	(3.7)	46.3	(3.1)	38.1	(3.1)	15.5	(2.4)	70.3	(3.3)	16.1	(3.0)	13.6	(2.1)
Moi	ntenegro	21.3 57.0	(0.2)	18.6 21.8	(0.2)	60.0 21.2	(0.3)	43.8 69.3	(0.2)	35.5 22.5	(0.5)	20.7 8.2	(0.5)	49.8 67.7	(0.5)	38.5 18.0	(0.3)	11.7	(0.5)
Qat		20.0	(0.1)	29.2	(0.1)	50.9	(0.1)	26.3	(0.1)	42.2	(0.1)	31.5	(0.1)	34.7	(0.1)	30.5	(0.1)	34.8	(0.1)
	mania	23.7	(3.3)	23.3	(3.2)	53.0	(3.5)	49.4	(4.1)	40.6	(3.9)	10.1	(2.5)	47.0	(4.3)	19.0	(3.0)	34.0	(4.0)
Rus		55.4	(4.1)	25.7	(3.3)	18.9	(3.4)	48.4	(4.0)	40.4	(3.9)	11.2	(2.5)	13.2	(2.4)	37.8	(4.6)	49.0	(4.4)
Sino	gapore	0.0	C (2.1)	12.6	(0.1)	87.4	(0.1)	19.3	(0.2)	55.6	(1.5)	25.1	(1.3)	64.8	(1.3)	25.8	(1.0)	9.4	(1.1)
	inese Taipei ailand	24.7 1.5	(2.1)	31.8 8.5	(3.1)	43.5 90.0	(3.1)	35.6 2.3	(3.3)	48.5 11.6	(3.4)	15.8 86.1	(2.6)	24.1 5.4	(2.8)	34.7 19.6	(3.4)	41.3 75.0	(3.6)
Chi	anailu	5.5	(0.9)	25.3	(0.3)	69.1	(0.3)	21.7	(0.3)	43.1	(0.3)	35.1	(0.3)	38.7	(0.3)	41.4	(0.3)	19.9	(0.2)
Chi	nidad and Tobago			31.3		62.1	(3.7)	29.5	(3.9)	45.5	(4.1)	25.0	(3.6)	74.3	(3.9)	22.0	(3.8)	3.7	(1.7)
Chi Tha Trin Tun	nidad and Tobago nisia	6.6	(2.0)	31.3	(3.6)	02.1	(3.7)	20.0											
Chi Tha Trin Tun Uni	iisia ited Arab Emirates	7.8	(1.3)	24.6	(1.8)	67.6	(2.1)	17.8	(2.6)	51.9	(2.7)	30.3	(2.3)	34.6	(2.7)	30.9	(2.7)	34.5	
Chi Tha Trin Tun Uni Uru	nisia ited Arab Emirates uguay	7.8 58.9	(1.3) (2.5)	24.6 14.8	(1.8) (2.1)	67.6 26.4	(2.1) (2.8)	17.8 61.5	(2.6) (2.9)	51.9 28.3	(2.8)	10.2	(2.1)	78.7	(1.9)	4.4	(1.5)	16.9	(2.9)
Chi Tha Trin Tun Uni Uru Vie	nisia ited Arab Emirates uguay et Nam	7.8 58.9 2.7	(1.3) (2.5) (1.1)	24.6 14.8 17.1	(1.8) (2.1) (3.2)	67.6 26.4 80.2	(2.1) (2.8) (3.4)	17.8 61.5 16.3	(2.6) (2.9) (2.8)	51.9 28.3 47.0	(2.8) (4.3)	10.2 36.7	(2.1) (4.4)	78.7 6.2	(1.9) (1.9)	4.4 36.0	(1.5) (3.9)	16.9 57.8	(1.5) (4.0)
Chi Tha Trin Tun Uni Uru Vie	nisia ited Arab Emirates uguay	7.8 58.9	(1.3) (2.5)	24.6 14.8	(1.8) (2.1)	67.6 26.4	(2.1) (2.8)	17.8 61.5	(2.6) (2.9)	51.9 28.3	(2.8)	10.2	(2.1)	78.7	(1.9)	4.4	(1.5)	16.9	(1.5)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** http://dx.doi.org/10.1787/888933436509



[Part 2/2]

Table II.5.18 School admissions policies

		·	ipals' re	<u> </u>															
		Pe	ercentage	e of stud	ents in s	chools v	here the	e follow	ing facto	rs are "ı	never", "	'sometim	es" or "	always"	conside	red for a	admissio	n to sch	ool:
		Whe	ther the				rested					member	'S						
			in	a special	progran	ıme			of cu	rrent or f	ormer st	udents			Reside	nce in a	particu	lar area	
		Ne	ever	Some	etimes	Alv	vays	Ne	ever	Some	etimes	Alv	vays	Ne	ever	Som	etimes	Alv	ways
		%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
9	Australia	19.3	(1.7)	54.4	(2.2)	26.4	(1.9)	21.2	(1.5)	34.5	(1.9)	44.2	(1.9)	30.8	(1.6)	21.2	(1.7)	48.0	(1.7)
OEC	Austria	28.3	(2.9)	34.6	(3.3)	37.1	(3.3)	55.1	(3.2)	28.8	(3.5)	16.1	(2.6)	54.6	(3.1)	17.0	(2.3)	28.4	(3.1)
_	Belgium Canada	17.2	(2.2)	59.9 49.6	(3.0)	15.3	(2.5)	43.4 51.3	(3.2)	27.0 30.9	(3.3)	29.6 17.8	(2.9)	79.9	(2.4)	17.8	(2.4)	2.3	(0.8)
	Chile	48.1	(2.0)	32.7	(2.8)	33.3 19.2	(2.8)	27.5	(2.7)	32.6	(2.5)	39.9	(2.2)	14.5 72.6	(1.8)	16.2	(3.1)	68.5	(2.5)
	Czech Republic	30.4	(2.9)	32.7	(2.8)	37.0	(3.3)	76.4	(2.7)	17.5	(2.5)	6.1	(1.6)	64.0	(2.5)	13.9	(2.1)	22.1	(2.1)
	Denmark	36.4	(3.5)	47.1	(3.3)	16.5	(2.6)	43.3	(3.3)	41.3	(3.5)	15.5	(2.6)	34.0	(2.6)	21.9	(2.4)	44.1	(2.8)
	Estonia	15.7	(2.1)	53.1	(2.8)	31.2	(2.6)	43.1	(2.4)	38.0	(2.4)	18.9	(2.1)	20.4	(2.2)	21.6	(2.3)	58.0	(2.9)
	Finland	56.3	(3.5)	37.5	(3.7)	6.2	(1.5)	65.5	(3.4)	27.4	(3.3)	7.1	(1.9)	19.9	(3.0)	13.6	(2.5)	66.5	(3.6)
	France	30.0	(3.1)	53.1	(3.4)	16.9	(2.6)	41.4	(3.3)	39.6	(3.3)	19.0	(2.6)	17.4	(1.9)	21.8	(2.6)	60.8	(2.3)
	Germany Greece	15.3 54.0	(2.7)	41.6 28.4	(3.7)	43.1 17.5	(3.2)	43.3	(2.9)	36.4	(3.3)	20.3	(3.1)	13.2	(2.6)	32.7 15.9	(4.0)	54.0 72.0	(3.9)
	Hungary	14.1	(2.3)	33.6	(3.6)	52.2	(3.4)	25.8	(3.0)	54.1	(3.5)	20.1	(3.0)	47.7	(3.8)	32.1	(3.4)	20.3	(2.7)
	Iceland	77.4	(0.2)	19.0	(0.2)	3.7	(0.0)	80.1	(0.2)	15.3	(0.2)	4.6	(0.1)	23.2	(0.2)	34.2	(0.3)	42.6	(0.3)
	Ireland	35.7	(3.5)	42.4	(4.0)	21.9	(3.3)	36.9	(4.0)	21.2	(3.5)	41.9	(4.1)	44.6	(3.8)	21.6	(3.5)	33.8	(4.0)
	Israel	13.2	(2.6)	48.7	(4.2)	38.1	(4.0)	55.1	(3.6)	37.7	(3.6)	7.2	(1.7)	32.8	(3.5)	24.3	(3.2)	42.9	(3.9)
	Italy	10.4	(1.9)	26.3	(3.3)	63.3	(3.5)	25.6	(3.8)	41.8	(3.6)	32.6	(3.5)	36.9	(4.1)	35.8	(4.1)	27.3	(4.0)
	Japan Koroa	26.7	(3.0)	41.9	(3.7)	31.4	(3.5)	84.7	(2.5)	13.6	(2.4)	1.7	(1.0)	62.7	(3.6)	23.9	(3.5)	13.4	(2.4)
	Korea Latvia	38.3	(3.7)	21.2 32.2	(3.3)	40.5 54.6	(3.7)	52.6 59.4	(4.1)	21.7	(3.8)	25.7 16.7	(3.3)	60.7 57.0	(3.6)	17.4	(3.0)	21.9	(3.4)
	Luxembourg	13.1	(0.1)	60.1	(0.1)	26.3	(0.1)	12.7	(0.1)	32.7	(0.1)	54.6	(0.1)	22.5	(0.1)	37.1	(0.1)	40.5	(0.1)
	Mexico	45.7	(3.3)	35.7	(3.6)	18.7	(2.8)	68.1	(3.1)	23.5	(2.7)	8.4	(2.0)	67.0	(3.2)	20.9	(2.7)	12.1	(2.5)
	Netherlands	10.3	(2.3)	69.2	(3.9)	20.6	(3.5)	63.4	(4.7)	22.6	(4.3)	13.9	(3.1)	64.1	(4.9)	23.0	(4.3)	12.9	(3.3)
	New Zealand	30.1	(3.4)	39.8	(3.8)	30.1	(3.8)	23.3	(3.5)	42.8	(4.0)	33.9	(3.9)	35.5	(3.2)	15.8	(3.1)	48.7	(3.3)
	Norway	80.0	(2.9)	18.3	(3.0)	1.6	(0.9)	75.1	(2.6)	17.9	(2.9)	6.9	(2.0)	15.2	(2.9)	14.6	(2.6)	70.3	(3.2)
	Poland	36.9	(3.5)	44.2	(4.0)	19.0	(3.0)	74.5	(3.4)	21.1	(3.2)	4.4	(1.7)	12.3	(2.5)	11.0	(2.2)	76.8	(3.0)
	Portugal	2.6 34.0	(1.1)	39.0 33.8	(3.9)	58.4 32.2	(4.0)	22.0 87.2	(3.1)	53.3	(3.5)	24.8	(2.5)	7.4 65.5	(2.2)	32.0 17.0	(3.4)	60.6 17.6	(3.7)
	Slovak Republic Slovenia	13.0	(0.7)	25.9	(0.6)	61.1	(0.4)	91.9	(0.5)	7.5	(1.7)	0.5	(1.0)	82.4	(0.6)	12.8	(0.3)	4.8	(0.6)
	Spain	53.5	(3.5)	28.0	(3.4)	18.4	(2.5)	30.8	(3.0)	22.4	(3.3)	46.8	(3.7)	26.2	(3.0)	13.3	(2.5)	60.5	(3.6)
	Sweden	66.4	(3.5)	22.0	(3.2)	11.6	(2.2)	59.1	(3.4)	23.2	(3.1)	17.7	(2.5)	43.1	(3.5)	12.9	(2.5)	44.0	(3.2)
	Switzerland	42.3	(3.5)	37.9	(4.1)	19.7	(3.1)	78.9	(3.3)	17.1	(3.0)	4.0	(1.6)	11.3	(2.1)	15.9	(2.8)	72.8	(3.2)
	Turkey	32.6	(3.8)	48.5	(4.5)	18.9	(3.3)	66.4	(4.2)	27.8	(4.1)	5.8	(1.9)	43.1	(3.9)	37.9	(4.3)	18.9	(3.1)
	United Kingdom	54.1	(4.6)	34.7	(3.9)	11.2	(2.3)	26.3	(3.0)	33.8	(3.4)	39.9	(3.4)	18.8	(2.7)	24.8	(3.6)	56.5	(3.8)
	United States	37.2	(3.5)	36.3	(3.8)	26.6	(3.5)	64.6	(4.1)	28.4	(3.9)	6.9	(2.4)	15.8	(2.5)	17.7	(3.3)	66.4	(3.8)
	OECD average	33.1	(0.5)	38.9	(0.6)	28.0	(0.5)	52.1	(0.5)	28.5	(0.5)	19.3	(0.4)	38.0	(0.5)	21.3	(0.5)	40.7	(0.5)
S	Albania	9.5	(1.7)	43.5	(4.0)	47.0	(4.0)	20.8	(2.9)	49.8	(3.6)	29.5	(3.5)	17.2	(3.4)	34.2	(3.2)	48.6	(3.8)
ner	Algeria	56.5	(4.3)	39.6	(4.2)	4.0	(1.7)	60.4	(4.0)	28.5	(3.4)	11.1	(3.0)	14.5	(3.1)	32.4	(3.8)	53.1	(4.3)
Partners	Brazil	51.2	(3.4)	27.5	(2.6)	21.3	(2.6)	63.5	(2.7)	21.4	(2.5)	15.1	(1.7)	37.7	(2.5)	24.0	(2.7)	38.3	(2.8)
4	B-S-J-G (China)	30.5	(3.9)	57.9	(4.2)	11.6	(2.3)	61.4	(4.0)	31.9	(4.0)	6.7	(1.8)	29.7	(3.9)	30.0	(4.0)	40.2	(3.7)
	Bulgaria	23.7	(3.5)	44.4	(3.4)	31.9	(3.5)	61.4	(3.4)	20.6	(3.1)	18.0	(2.8)	68.8	(2.9)	16.9	(2.8)	14.3	(2.2)
	CABA (Argentina)	27.2	(6.1)	57.5	(7.1)	15.3	(5.1)	16.9	(5.8)	34.3	(6.7)	48.8	(7.1)	56.2	(7.4)	26.5	(6.1)	17.3	(5.8)
	Colombia Costa Rica	36.1	(3.5)	41.0 37.3	(3.8)	22.9	(3.1)	50.6 73.8	(3.5)	30.3	(3.2)	19.1	(2.3)	54.4 22.9	(3.4)	27.2	(3.2)	18.4 54.2	(2.9)
	Croatia	30.5	(3.6)	46.7	(4.1)	22.8	(3.6)	90.4	(2.2)	8.9	(2.2)	0.7	(0.0)	65.4	(3.5)	25.6	(3.2)	9.0	(1.9)
	Cyprus*	29.1	(0.1)	33.9	(0.1)	37.0	(0.1)	62.6	(0.2)	26.2	(0.1)	11.2	(0.1)	34.0	(0.1)	8.4	(0.1)	57.5	(0.2)
	Dominican Republic	56.6	(3.9)	31.2	(3.5)	12.2	(2.7)	66.4	(3.8)	25.9	(3.5)	7.8	(2.0)	60.5	(3.9)	22.7	(3.3)	16.8	(2.7)
	FYROM	42.3	(0.2)	34.0	(0.2)	23.8	(0.1)	73.4	(0.1)	24.8	(0.1)	1.8	(0.0)	70.4	(0.2)	23.6	(0.1)	6.1	(0.2)
	Georgia	17.1	(2.6)	19.4	(2.4)	63.6	(3.0)	71.9	(2.9)	15.2	(2.3)	12.9	(2.4)	55.0	(3.4)	24.2	(2.9)	20.8	(2.5)
	Hong Kong (China)	23.4	(3.9)	56.5	(4.9)	20.1	(3.9)	16.4	(3.1)	68.6	(4.0)	15.0	(3.4)	52.4	(4.2)	37.4	(4.4)	10.1	(2.8)
	Indonesia Jordan	14.9 30.6	(2.2)	28.7 48.6	(3.6)	56.4 20.8	(3.7)	44.9 34.7	(3.2)	34.7 42.2	(3.2)	20.4	(2.5)	36.6 12.2	(3.5)	24.2 32.0	(3.1)	39.2 55.8	(3.0)
	Kosovo	22.0	(1.0)	57.8	(1.4)	20.0	(1.3)	59.2	(1.4)	25.4	(1.5)	15.3	(1.1)	34.0	(1.2)	40.0	(1.5)	25.9	(1.4)
	Lebanon	39.2	(3.2)	39.9	(3.3)	20.9	(2.9)	35.9	(2.8)	41.5	(3.1)	22.6	(2.5)	44.5	(3.4)	35.6	(3.1)	19.9	(3.2)
	Lithuania	13.3	(2.0)	35.4	(2.8)	51.3	(3.0)	39.9	(2.3)	26.7	(2.6)	33.4	(2.2)	31.1	(2.7)	23.3	(2.5)	45.5	(2.9)
	Macao (China)	8.6	(0.1)	75.5	(0.1)	15.9	(0.0)	7.2	(0.1)	46.6	(0.1)	46.2	(0.1)	71.2	(0.1)	24.4	(0.1)	4.3	(0.0)
	Malta	48.4	(0.1)	22.2	(0.1)	29.3	(0.1)	74.5	(0.1)	8.7	(0.0)	16.8	(0.1)	48.8	(0.1)	6.6	(0.0)	44.7	(0.1)
	Moldova	26.2	(2.9)	26.1	(3.1)	47.6	(3.8)	67.2	(3.4)	21.4	(3.4)	11.3	(2.3)	45.9	(4.0)	16.3	(2.9)	37.8	(3.0)
	Montenegro Peru	16.2 48.2	(0.1)	24.5 35.4	(0.4)	59.3 16.4	(0.3)	76.1 48.1	(0.2)	23.4	(0.4)	0.5 24.7	(0.4)	72.6 62.5	(0.4)	12.5 26.3	(0.3)	14.9	(0.4)
	Qatar	25.9	(0.1)	48.2	(0.1)	25.9	(0.1)	24.5	(0.1)	38.3	(0.1)	37.2	(0.1)	33.5	(0.1)	18.1	(0.1)	48.4	(0.1)
	Romania	18.6	(3.1)	37.5	(3.7)	43.9	(4.2)	47.8	(4.4)	36.2	(4.0)	16.0	(2.7)	49.9	(4.1)	34.0	(3.7)	16.1	(3.0)
	Russia	8.5	(1.7)	30.1	(4.2)	61.4	(4.1)	54.7	(3.8)	37.3	(3.9)	8.0	(2.5)	15.7	(2.2)	20.8	(3.1)	63.5	(3.6)
	Singapore	10.9	(0.7)	69.6	(1.2)	19.5	(1.0)	39.5	(0.3)	52.2	(0.9)	8.4	(1.1)	38.1	(0.6)	50.4	(1.2)	11.5	(0.6)
	Chinese Taipei	13.3	(2.2)	41.3	(3.6)	45.5	(3.4)	48.7	(3.1)	38.2	(3.4)	13.1	(2.3)	36.6	(3.8)	37.9	(3.8)	25.5	(2.9)
	Thailand	5.9	(1.6)	32.9	(3.7)	61.2	(4.0)	36.9	(3.9)	36.2	(3.9)	26.9	(3.3)	22.7	(2.8)	30.2	(3.3)	47.1	(3.0)
	Trinidad and Tobago	28.6	(0.3)	53.3	(0.3)	18.1	(0.2)	25.5	(0.3)	66.9	(0.3)	7.6	(0.1)	10.8	(0.1)	69.0	(0.3)	20.2	(0.3)
	Tunisia United Arab Emirates	57.0 21.0	(4.5)	35.7 45.1	(4.3)	7.3	(2.2)	49.6 16.1	(4.8)	39.1 33.0	(4.5)	11.3 50.9	(3.0)	11.6 24.5	(2.5)	31.3 25.6	(3.7)	57.0 49.9	(3.7)
	Uruguay	44.6	(2.5)	36.7	(2.7)	18.7	(2.4)	63.9	(1.7)	20.3	(2.4)	15.8	(2.6)	48.4	(2.4)	23.1	(2.3)	28.5	(2.4)
	Viet Nam	38.4	(3.8)	28.8	(3.9)	32.8	(4.3)	60.7	(3.6)	30.0	(3.8)	9.3	(2.1)	32.6	(3.8)	23.9	(3.5)	43.5	(3.9)
_	Argentina**	30.5																	
	Kazakhstan**	16.9	(3.7) (2.8)	39.5 47.7	(4.0)	30.0 35.4	(3.5)	31.9 18.9	(3.0) (2.9)	21.2 44.4	(2.9)	46.8 36.6	(3.8)	55.6 29.1	(3.6) (2.9)	26.7 24.3	(3.4)	17.7 46.7	(2.7)
	Malaysia**	10.7	(2.5)	51.7	(3.8)	37.6	(3.4)	43.8	(3.9)	43.1	(4.2)	13.1	(2.7)	27.2	(3.9)	35.5	(3.8)	37.3	(4.0)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/2]

Table II.5.21 School admissions policies and science performance

		Change in s	cience scor	e when the p	rincipal rep	orted that th	e following	factors are c	onsidered fo	or admission	to school "	sometimes" o	r "always
		Student's	record of a	cademic perfo acement tests)				of feeder scl		Parents' 6	endorseme	nt of the instr	uctional
		Before acco students' an socio-econor	d schools'	After according students' ar socio-econo	id schools'	Before acco students' ar socio-econo	nd schools'	After according students' ar socio-econo	nd schools'	Before acco students' an socio-econo	nd schools'	After acco students' ai socio-econo	nd schools
		Score dif.	S.E.	Score dif.	S.E.	Score dif.	S.E.	Score dif.	S.E.	Score dif.	S.E.	Score dif.	S.E.
	ustralia	9	(5.3)	6	(3.4)	-4	(5.6)	-5	(4.2)	21	(3.8)	-3	(3.3)
A	ustria elgium	91 7	(5.9) (9.1)	36 5	(6.2) (4.3)	32 12	(8.5)	6 7	(5.5) (4.2)	3 -4	(9.9) (8.2)	-11 -7	(6.1) (4.7)
	anada	12	(4.1)	8	(3.3)	0	(4.6)	3	(3.5)	3	(4.6)	-2	(3.5)
	hile	43	(5.9)	15	(5.2)	19	(9.3)	10	(6.2)	31	(8.3)	15	(5.4)
	zech Republic	40	(5.1)	3	(4.8)	-15	(8.1)	-7	(4.9)	-20	(6.9)	-13	(5.1)
D	enmark .	3	(5.7)	0	(5.4)	0	(5.5)	-4	(4.8)	9	(5.5)	-1	(4.5)
	stonia	18	(6.0)	-2	(5.2)	0	(5.0)	-7	(4.0)	-11	(4.9)	-6	(4.5)
	inland	3	(7.0)	1	(5.6)	5	(6.8)	-2	(5.7)	10	(7.4)	2	(5.8)
	rance	47	(9.2)	4	(5.8)	25	(9.2)	1	(5.1)	18	(9.3)	-21	(5.7)
	Germany Greece	38	(14.3)	3	(8.1)	22 20	(13.5) (8.4)	5 4	(8.1)	17 20	(10.0)	10 3	(4.6) (6.4)
	lungary	108	(13.7)	29	(9.8)	-8	(9.2)	-13	(4.4)	-21	(9.0)	-19	(4.6)
	celand	-2	(3.6)	-1	(3.5)	6	(3.8)	1	(3.8)	-3	(4.3)	-1	(4.3)
	eland	-10	(6.3)	-7	(4.5)	-15	(6.1)	-8	(3.9)	5	(6.0)	-4	(4.6)
	rael	-7	(14.5)	-10	(7.7)	17	(15.9)	5	(9.7)	-14	(10.6)	-13	(6.6)
It	aly	1	(9.5)	-5	(7.8)	15	(9.9)	12	(7.7)	0	(8.2)	-14	(5.4)
	ıpan	С	С	С	С	-18	(10.5)	-20	(5.2)	-11	(11.0)	-26	(7.1)
	orea	-24	(6.3)	3	(5.5)	-4	(8.5)	1	(4.5)	12	(6.7)	8	(4.7)
	atvia	32	(4.3)	9	(4.7)	12	(3.8)	2	(3.1)	2	(6.0)	-1	(4.4)
	uxembourg	C 10	(6.1)	C	(F. 6)	6	(2.6)	19	(2.6)	-4 10	(2.1)	-11	(2.2)
	1exico Jetherlands	-38	(6.1) (25.6)	-15	(5.6) (11.4)	-3 c	(4.5) C	-6 c	(3.6) c	10 -30	(6.4) (13.6)	-8	(4.1) (9.6)
	lew Zealand	-8	(7.1)	-2	(5.3)	-19	(6.8)	-5	(5.5)	-4	(7.7)	-12	(4.9)
	lorway	10	(10.1)	10	(8.2)	2	(7.2)	3	(6.2)	2	(18.6)	3	(16.4)
	oland	29	(4.8)	7	(4.3)	14	(6.6)	6	(4.3)	15	(8.4)	-2	(5.3)
P	ortugal	12	(7.9)	2	(4.7)	0	(7.7)	-8	(4.8)	17	(6.8)	-2	(5.1)
S	lovak Republic	53	(5.8)	7	(5.0)	0	(9.5)	-5	(5.3)	8	(10.5)	0	(5.7)
	lovenia	39	(3.1)	6	(2.7)	-17	(3.5)	-14	(2.9)	10	(5.4)	6	(5.0)
	pain	12	(6.2)	-3	(4.6)	11	(6.0)	2	(4.5)	23	(4.6)	-3	(4.3)
	weden	26	(12.3)	14	(8.0)	-3	(8.7)	-5	(5.7)	-9	(7.5)	-6	(6.1)
	witzerland	17	(9.8)	5	(8.2)	-14	(9.0)	-10	(6.8)	-18	(12.0)	-17	(8.2)
	urkey Jnited Kingdom	59 23	(9.5) (8.5)	30 5	(8.0)	-23 6	(11.3)	-16	(7.5) (4.7)	-4 3	(13.3)	-8 -3	(8.2)
	nited States	6	(7.5)	-1	(5.2)	2	(8.2)	-1	(5.8)	-7	(8.8)	-11	(6.7)
	DECD average	21	(1.6)	5	(1.1)	3	(1.4)	-1	(0.9)	2	(1.5)	-5	(1.0)
_													
	lbania	m	m	m	m (7.0)	m	m	m	m	m	m (7.0)	m	(7.0)
A	lgeria :	10	(7.4)	2	(7.8)	-14	(8.9)	-12	(6.6)	-5	(7.9)	-1	(7.0)
B	razil -S-J-G (China)	60	(6.4)	3 22	(4.6)	-8 31	(5.6)	-2 3	(4.3)	18 15	(6.5)	5	(4.8)
	ulgaria	91	(10.2) (20.8)	-3	(8.3)	-21	(12.8) (10.6)	-11	(9.0)	-41	(14.1) (11.8)	-15	(6.5)
	ABA (Argentina)	49	(13.6)	-13	(10.0)	1	(14.2)	-8	(7.7)	22	(15.0)	-4	(8.6)
	olombia	13	(6.4)	-5	(5.6)	-1	(7.5)	-12	(4.6)	29	(6.7)	1	(4.9)
	osta Rica	-12	(8.9)	-4	(4.5)	2	(6.8)	1	(3.5)	-3	(6.4)	4	(3.8)
	roatia	9	(34.1)	14	(16.2)	-9	(9.0)	-3	(5.1)	-4	(8.8)	-4	(5.9)
	yprus*	9	(2.3)	-7	(2.3)	0	(3.0)	-12	(2.9)	8	(3.3)	-8	(3.2)
	Oominican Republic	36	(6.4)	8	(5.1)	6	(10.2)	0	(6.1)	20	(11.8)	4	(6.5)
	YROM	6	(3.5)	-6	(3.3)	-4	(3.0)	-7	(2.9)	-11	(3.0)	-9	(3.0)
	ieorgia Iong Kong (China)	17	(5.1)	1 m	(4.6)	7	(5.9)	4	(5.1)	-2 21	(7.1)	-5 12	(5.2)
	long Kong (China) ndonesia	18	m (9.7)	m -4	m (8.0)	-13 -2	(16.6)	-2 1	(16.5) (4.5)	-21 -6	(10.4) (9.8)	-13 -3	(10.0)
	ordan	5	(9.1)	-7	(7.5)	-4	(7.5)	-7	(6.1)	14	(6.7)	4	(5.9)
	osovo	16	(6.5)	12	(7.1)	-12	(3.1)	-4	(3.2)	-2	(2.7)	-6	(3.0)
	ebanon	5	(10.7)	-7	(13.0)	19	(11.0)	4	(8.9)	27	(7.8)	7	(8.0)
Li	ithuania	40	(6.5)	6	(5.8)	5	(6.1)	0	(4.7)	-10	(5.8)	-12	(5.1)
	lacao (China)	С	C	С	С	С	С	С	С	12	(3.0)	10	(2.9)
	1alta	-9	(3.3)	-15	(3.3)	3	(3.4)	-17	(3.5)	43	(3.0)	-8	(3.9)
	1oldova	14	(5.7)	5	(4.5)	18	(4.8)	11	(3.5)	16	(7.9)	6	(5.6)
	1ontenegro	-3 24	(2.6)	-6	(2.5)	0	(2.2)	-5 7	(2.1)	-8 25	(2.3)	-6 5	(2.3)
	eru Qatar	43	(6.2) (1.9)	1 21	(3.8)	13 22	(6.7) (1.9)	-7 -3	(3.8)	35 -5	(6.6) (1.8)	- 9	(3.5)
	yatar omania	0	(8.1)	-2	(6.1)	-1	(7.7)	-3	(5.6)	- 3	(7.9)	0	(5.6)
	ussia	11	(5.0)	-2	(3.7)	-11	(5.0)	-2	(4.4)	-3 1	(6.8)	-10	(6.2)
	ingapore	m	m	m	m	25	(3.1)	8	(2.9)	2	(3.3)	-10	(4.1)
	hinese Taipei	29	(6.5)	7	(4.6)	-18	(9.8)	-10	(4.5)	-7	(10.1)	-12	(4.5)
T	hailand .	36	(23.3)	2	(24.5)	-4	(35.8)	1	(17.3)	2	(17.3)	-2	(9.9)
	rinidad and Tobago	34	(6.3)	6	(6.3)	34	(3.4)	19	(3.2)	36	(3.0)	2	(3.1)
	unisia	36	(11.8)	20	(7.2)	-8	(9.1)	-2	(6.3)	-16	(6.9)	-7	(5.6)
	nited Arab Emirates	43	(11.6)	34	(15.1)	28	(11.2)	14	(10.9)	-15	(7.9)	-18	(5.8)
	ruguay	20	(5.4) (11.5)	-7 7	(4.3) (11.7)	11	(7.5) (10.0)	-5 2	(4.6) (7.1)	49 19	(9.3) (7.6)	-26 7	(5.0) (8.3)
U	int Nam									19			105 3)
V	iet Nam	25				•							
V	iet Nam rgentina** azakhstan**	28	(7.3) (7.9)	-1 -7	(5.6)	16 -4	(6.8) (7.8)	-8 -2	(5.2)	17 -2	(6.5)	-5	(4.9) (6.7)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status. Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink *** Line** http://dx.doi.org/10.1787/888933436509



[Part 2/2]

Table II.5.21 School admissions policies and science performance

		Change in s	cience scor	e when the p	rincipal rep	orted that th	e following	factors are c	onsidered f	or admission	to school "s	sometimes" o	r "always
				equires or is in programme	nterested			to family men former studer				dence cular area	
		Before acco students' an socio-econor	ıd schools'	After according students' ar socio-econo	nd schools'	Before acco students' ar socio-econo	nd schools'	After according students' and socio-econo	d schools'	Before acco students' an socio-econo	d schools'	After accor students' ar socio-econo	nd schools
		Score dif.	S.E.	Score dif.	S.E.	Score dif.	S.E.	Score dif.	S.E.	Score dif.	S.E.	Score dif.	S.E.
Australia		2	(6.9)	-2	(4.4)	19	(5.4)	-6	(4.8)	-37	(3.8)	-11	(3.0)
Australia Austria Belgium		20	(9.5)	5	(6.4)	39	(7.5)	3	(5.7)	-27	(9.1)	-9	(5.4)
Belgium Canada		- 20 8	(9.5)	-6 3	(5.0)	19 18	(7.5) (4.9)	-3 5	(4.8)	-2 2	(10.7)	-5 3	(6.6)
Chile		-13	(5.8)	-6	(4.5) (4.7)	54	(6.8)	14	(3.6) (5.8)	-13	(7.8) (7.8)	-8	(4.7) (5.4)
Czech Rep	ublic	-8	(6.1)	-3	(4.3)	-19	(7.1)	-14	(4.7)	-41	(5.3)	-18	(4.7)
Denmark	uone	-2	(5.0)	-2	(4.7)	8	(6.0)	2	(5.2)	-6	(6.6)	-2	(5.6)
Estonia		-4	(8.7)	-1	(7.7)	10	(5.1)	-14	(4.6)	-1	(8.0)	-12	(6.1)
Finland		17	(4.9)	2	(4.6)	9	(5.3)	-5	(5.2)	12	(7.9)	1	(5.8)
France		22	(10.1)	2	(5.9)	16	(10.0)	-9	(5.3)	9	(10.4)	27	(6.6)
Germany		17	(15.4)	-10	(8.5)	28	(10.4)	-8	(5.5)	-37	(15.6)	-14	(8.3)
Greece		0	(8.6)	-2	(5.8)	22	(7.4)	2	(5.7)	-7	(15.5)	18	(7.3)
Hungary Iceland		29	(17.6)	-8 0	(7.3)	13 -2	(10.7)	-8 -5	(5.6) (4.0)	-14	(10.3)	-6 -5	(5.2)
Ireland		-18	(4.1) (5.4)	-10	(3.9)	21	(4.1)	-2	(4.6)	-6 -5	(4.6)	-6	(4.5)
Israel		-16	(17.7)	-13	(8.7)	12	(10.1)	2	(6.8)	-6	(10.2)	-10	(6.7)
Italy		4	(9.7)	13	(10.7)	2	(13.1)	-6	(8.3)	0	(10.2)	1	(6.9)
Japan		-19	(9.3)	-8	(5.9)	-24	(12.6)	-46	(6.1)	11	(10.3)	5	(6.1)
Korea		-17	(6.6)	-3	(4.9)	4	(7.4)	8	(4.5)	13	(7.0)	6	(4.4)
Latvia		-3	(5.6)	0	(4.8)	28	(4.3)	7	(3.7)	16	(4.1)	-1	(3.8)
Luxembou	rg	11	(2.9)	11	(2.8)	-4	(2.9)	13	(3.0)	-7	(2.3)	4	(2.3)
Mexico		11	(5.4)	2	(3.9)	8	(4.9)	-3	(3.8)	6	(5.2)	1	(4.1)
Netherland		-24	(16.2)	-15	(11.1)	18	(15.3)	2	(11.1)	2	(15.1)	4	(9.7)
New Zeala	ına	-19	(7.6)	-7	(6.0)	41 9	(8.0)	10 -3	(7.3)	3 7	(7.9)	-2 4	(5.5)
Norway Poland		24	(6.3)	6 8	(5.6) (4.8)	17	(6.4) (6.4)	0	(6.0) (5.5)	-28	(6.8) (12.4)	-11	(5.7) (6.7)
Portugal		25	(22.4)	23	(14.1)	21	(8.3)	-3	(6.5)	-6	(17.1)	-7	(10.9)
Slovak Rep	ublic	15	(7.8)	-5	(4.2)	3	(9.1)	-11	(6.7)	-29	(6.1)	-18	(5.4)
Slovenia	·uone	-11	(5.8)	-2	(4.7)	-5	(5.8)	-20	(6.6)	-23	(4.5)	-21	(4.6)
Spain		8	(5.7)	-1	(3.7)	11	(5.1)	-4	(3.6)	2	(5.5)	-1	(3.8)
Sweden		3	(7.5)	-4	(5.2)	12	(6.9)	-6	(5.2)	-12	(6.1)	-5	(4.4)
Switzerlan	d	10	(8.8)	0	(6.7)	-10	(11.9)	-13	(8.7)	-23	(14.7)	5	(12.0)
Turkey	_	-14	(12.3)	-12	(7.8)	-14	(11.7)	-11	(8.3)	-48	(9.5)	-32	(7.1)
United Kin		-2	(7.0)	-4	(4.2)	14	(7.2)	7	(4.4)	-8	(10.4)	2	(5.4)
United Sta	tes	0	(7.6)	0	(5.3)	9	(9.0)	3	(6.3)	-9	(11.7)	9	(10.0)
OECD ave	rage	1	(1.6)	-1	(1.1)	12	(1.4)	-3	(1.0)	-9	(1.6)	-3	(1.1)
Albania		m	m	m	m	m	m	m	m	m	m	m	m
Algeria		5	(8.0)	2	(6.4)	0	(6.8)	-2	(5.2)	-8	(12.9)	-1	(8.9)
Albania Algeria Brazil		0	(6.3)	2	(4.0)	13	(5.9)	5	(4.1)	-25	(6.9)	-4	(4.5)
B-S-J-G (C Bulgaria	nina)	-52	(12.8) (14.8)	-3 -24	(8.6)	5 -28	(13.0)	-18 -12	(8.7) (7.4)	-9 - 25	(14.7) (12.4)	-14 - 14	(9.6)
CABA (Arg	iontina)	24	(15.9)	2	(10.4)	1	(24.7)	1	(13.9)	-34	(14.0)	1	(7.8)
Colombia	(Circina)	3	(6.6)	-4	(4.4)	30	(6.1)	5	(4.6)	3	(5.6)	1	(4.4)
Costa Rica		1	(6.7)	1	(3.4)	-8	(6.1)	2	(4.1)	12	(5.6)	7	(3.7)
Croatia		-16	(9.3)	-3	(6.3)	18	(11.8)	12	(9.1)	2	(8.4)	1	(4.8)
Cyprus*		-23	(2.6)	-13	(2.5)	5	(2.5)	-6	(2.5)	-12	(2.6)	19	(2.9)
Dominicar	n Republic	27	(6.6)	6	(5.2)	35	(8.3)	4	(5.0)	9	(7.6)	7	(4.7)
FYROM		-11	(2.4)	-7	(2.5)	-5	(3.2)	-15	(3.2)	-7	(3.2)	-8	(3.2)
Georgia	- (CL!)	13	(7.4)	3	(6.3)	14	(6.4)	0	(4.8)	1	(6.6)	-2	(5.0)
Hong Kong Indonesia	g (Cnina)	-15 18	(9.1)	-14	(7.3)	-20	(9.8)	-18	(8.1)	-30	(7.7)	-16	(6.9)
Jordan		18	(9.1) (8.3)	4	(6.3) (7.1)	-7 11	(6.8) (6.4)	-4 -2	(4.6) (5.9)	-17 -3	(7.9) (9.3)	-4 8	(5.5) (8.4)
Kosovo		-6	(3.8)	-7	(3.5)	-21	(2.6)	-20	(2.7)	-10	(3.4)	-11	(3.2)
Lebanon		13	(8.7)	-3	(7.5)	25	(8.1)	0	(7.5)	-8	(9.2)	5	(7.2)
Lithuania		-28	(8.6)	-30	(5.6)	26	(5.4)	-3	(5.0)	-4	(6.7)	-1	(5.3)
Macao (Ch	nina)	17	(3.4)	20	(3.3)	56	(4.1)	55	(4.2)	-4	(2.3)	2	(2.3)
Malta		6	(3.4)	-3	(3.4)	51	(3.8)	12	(4.4)	-81	(2.9)	4	(5.5)
Moldova		9	(6.2)	-1	(4.7)	23	(7.7)	12	(5.5)	0	(6.4)	-4	(4.8)
Montenego	ro	-7	(3.2)	-5	(3.1)	23	(3.0)	9	(2.8)	33	(3.2)	11	(3.1)
Peru		14	(5.8)	0	(3.6)	24	(5.8)	3	(3.4)	5	(5.7)	3	(3.3)
Qatar		1	(2.0)	-12	(2.0)	30	(1.8)	4	(2.0)	-56	(1.7)	-44	(1.7)
Romania Russia		10 25	(11.4) (12.7)	7	(6.0) (11.8)	-10 16	(7.3) (5.7)	-8 -1	(4.7) (4.6)	-6 23	(7.4) (8.0)	1 -4	(4.8)
Singapore		25	(4.4)	14	(8.6)	-1	(2.9)	-12	(3.0)	-70	(2.7)	-22	(4.3)
Chinese Ta	inei	-12	(13.5)	-6	(5.5)	-31	(7.8)	-12	(4.4)	-2	(11.0)	-22	(5.9)
Thailand	.pci	38	(11.7)	7	(12.5)	8	(7.3)	-4	(5.4)	24	(8.7)	8	(6.0)
Trinidad a	nd Tobago	19	(3.0)	0	(3.0)	52	(3.1)	6	(3.3)	-45	(3.9)	6	(4.3)
Tunisia	0	2	(7.7)	4	(5.8)	-3	(8.1)	-7	(5.5)	-13	(15.6)	-9	(10.0)
	b Emirates	7	(8.7)	-5	(7.4)	39	(5.9)	21	(8.2)	-54	(6.9)	-24	(7.3)
Uruguay		2	(7.1)	-5	(4.1)	18	(7.5)	-8	(4.5)	-21	(5.7)	-4	(3.8)
Viet Nam		6	(8.0)	10	(6.1)	13	(7.7)	-2	(5.5)	5	(9.2)	1	(6.4)
Argentina*		18	(7.8)	-1	(6.2)	20	(6.3)	-7	(5.0)	-12	(6.8)	-13	(4.8)
Kazakhstai		-13	(10.3)	-15	(10.0)	-43	(10.6)	-36	(10.0)	12	(8.6)	14	(7.6)
Malaysia**		4	(11.3)	-4	(8.0)	-5	(7.1)	-9	(4.8)	-24	(8.0)	-10	(5.7)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status. Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

* Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/1]

Table II.5.22 Ability grouping between and within classes

			of students i ped by ability					Percentage are grou	of students in ped by abilit	n schools what within the	here student eir classes	s
	-	subjects	-	e subjects		ny subject		subjects		subjects		ny subjec
	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Australia	1.6	(0.5)	86.6	(1.3)	11.9	(1.1)	4.7	(0.9)	65.5	(2.1)	29.8	(1.9)
Austria	4.0	(1.5)	12.4	(1.9)	83.6	(2.4)	2.3	(0.9)	31.8	(2.7)	65.9	(2.9
Belgium	13.1	(2.0)	15.3	(2.0)	71.6	(3.0)	1.6	(0.8)	31.3	(2.6)	67.1	(2.6
Canada Chile	6.8 5.6	(1.6)	80.0 21.5	(2.2)	13.2 72.9	(1.6)	3.8	(1.1) (1.4)	50.1 38.3	(3.0)	46.2 58.5	(3.2
Czech Republic	3.5	(1.5)	25.4	(2.7)	71.1	(2.5)	0.2	(0.2)	59.0	(3.0)	40.8	(3.0
Denmark	0.2	(0.2)	25.0	(3.2)	74.8	(3.2)	14.6	(2.9)	73.7	(3.7)	11.7	(2.6
Estonia	6.6	(1.4)	31.6	(2.6)	61.9	(2.6)	3.3	(1.1)	43.9	(2.8)	52.8	(2.8
Finland	2.3	(1.2)	50.9	(4.1)	46.8	(4.2)	4.8	(1.8)	53.1	(3.9)	42.1	(4.0
France	3.4	(1.1)	20.9	(2.8)	75.7	(2.9)	1.2	(0.7)	46.3	(3.4)	52.6	(3.5
Germany	8.0	(1.8)	22.0	(2.7)	70.0	(3.2)	5.8	(1.8)	39.7	(3.9)	54.5	(3.8)
Greece	0.3	(0.3)	11.3	(2.3)	88.4	(2.3)	1.9	(1.0)	22.0	(3.4)	76.1	(3.4
Hungary	0.0	C	35.1	(3.5)	64.9	(3.5)	0.2	(0.2)	74.6	(3.0)	25.3	(3.0
Iceland	0.0	С	22.6	(0.2)	77.4	(0.2)	0.0	С	58.7	(0.2)	41.3	(0.2
Ireland	2.0	(1.1)	93.9	(1.6)	4.1	(1.5)	2.2	(1.1)	54.5	(4.0)	43.3	(4.0
Israel	9.3	(1.7)	88.4	(2.1)	2.2	(1.3)	6.2	(2.2)	72.1	(3.7)	21.7	(3.4
Italy	7.6	(2.3)	5.5	(1.7)	86.9	(2.5)	18.4	(2.9)	15.8	(2.5)	65.8	(3.2
Japan	10.1	(2.1)	43.5	(3.5)	46.4	(3.6)	0.5	(0.5)	48.9	(3.5)	50.5	(3.4
Korea	4.7	(1.6)	53.1	(4.1)	42.2	(4.0)	1.6	(0.9)	54.1	(3.5)	44.3	(3.6
Latvia Luxembourg	5.4 33.0	(0.1)	13.3 38.9	(0.1)	81.3 28.2	(2.0)	1.6 1.0	(0.5)	44.4 53.4	(2.9)	54.0 45.5	(3.0
Mexico	10.0	(2.5)	36.9	(3.6)	53.1	(3.7)	10.1	(1.9)	49.8	(3.2)	40.1	(3.1
Netherlands	56.1	(5.2)	14.8	(3.6)	29.2	(4.7)	6.0	(2.7)	71.4	(4.6)	22.6	(4.0
New Zealand	3.2	(1.5)	86.7	(2.9)	10.1	(2.3)	10.8	(2.7)	76.6	(3.5)	12.6	(2.5
Norway	0.5	(0.5)	15.2	(2.8)	84.3	(2.8)	3.0	(1.3)	52.9	(3.4)	44.0	(3.4
Poland	2.7	(1.3)	35.3	(3.9)	62.0	(4.0)	3.1	(1.4)	78.7	(3.0)	18.2	(2.8
Portugal	4.3	(1.6)	7.3	(2.2)	88.4	(2.7)	4.8	(1.7)	16.5	(2.8)	78.7	(3.3
Slovak Republic	12.9	(2.1)	21.7	(3.0)	65.4	(3.0)	1.8	(0.8)	57.1	(3.0)	41.1	(2.9
Slovenia	0.2	(0.0)	34.5	(0.5)	65.3	(0.5)	10.7	(0.5)	40.6	(0.6)	48.7	(0.4
Spain	6.0	(1.6)	34.3	(3.6)	59.7	(3.6)	3.6	(1.5)	33.4	(3.4)	63.0	(3.5
Sweden	0.6	(0.5)	20.8	(2.8)	78.6	(2.8)	3.7	(1.3)	43.3	(4.1)	53.0	(4.0
Switzerland	29.2	(3.6)	33.2	(3.7)	37.7	(3.4)	3.4	(1.5)	51.8	(3.8)	44.8	(3.8)
Turkey	4.2	(1.7)	26.3	(3.5)	69.5	(3.5)	1.8	(1.0)	30.4	(4.3)	67.7	(4.2
United Kingdom	8.5	(2.2)	91.3	(2.2)	0.2	(0.1)	7.5	(2.3)	71.8	(3.9)	20.7	(3.3
United States	7.1	(1.7)	75.5	(3.3)	17.4	(3.2)	8.8	(2.1)	61.8	(3.7)	29.3	(3.6
OECD average	7.8	(0.3)	38.0	(0.5)	54.2	(0.5)	4.5	(0.3)	50.5	(0.6)	45.0	(0.5
Albania	3.4	(1.4)	40.6	(4.2)	56.0	(4.1)	16.0	(2.7)	41.1	(4.7)	42.8	(4.3
Algeria	40.3	(4.2)	25.9	(3.6)	33.8	(3.7)	33.1	(3.9)	24.9	(3.5)	42.1	(4.2
Brazil	7.4	(1.3)	2.8	(0.9)	89.8	(1.5)	11.2	(2.0)	8.0	(1.4)	80.8	(2.2
B-S-J-G (China)	17.6	(3.1)	19.0	(3.1)	63.4	(3.4)	33.4	(3.7)	43.7	(4.1)	22.9	(3.2
Bulgaria	7.6	(1.9)	18.7	(2.6)	73.7	(3.0)	14.5	(3.1)	35.2	(3.4)	50.3	(3.7
CABA (Argentina)	0.0	C (2.5)	33.4	(6.8)	66.6	(6.8)	2.8	(2.2)	27.6	(7.0)	69.6	(7.1
Colombia	13.6	(2.5)	23.7	(3.3)	62.7	(3.9)	14.6	(2.5)	23.6	(3.2)	61.7	(3.6
Costa Rica	21.4	(3.6)	22.1	(3.7)	56.5 77.1	(4.3)	54.2	(3.8)	20.0	(3.2)	25.7	(3.0
Croatia Cyprus*	11.7 6.5	(2.7)	20.5	(2.2)	77.1 73.0	(3.2)	3.0 5.0	(0.1)	34.6 39.8	(3.5)	62.5 55.2	(3.7
Dominican Republic	12.8	(3.1)	23.8	(3.7)	63.3	(4.4)	21.8	(3.9)	30.2	(4.3)	48.0	(4.3
FYROM	21.4	(0.1)	20.9	(0.1)	57.7	(0.1)	27.2	(0.1)	28.6	(0.1)	44.2	(0.2
Georgia	1.9	(0.1)	7.2	(1.7)	90.9	(1.9)	1.1	(0.6)	16.5	(2.9)	82.3	(2.9
Hong Kong (China)	15.9	(3.1)	74.8	(3.8)	9.4	(2.2)	3.7	(1.5)	70.6	(3.4)	25.7	(3.2
Indonesia	21.9	(2.9)	16.3	(2.7)	61.8	(3.3)	17.4	(2.8)	20.1	(3.1)	62.5	(3.4
Jordan	31.9	(3.2)	18.4	(2.6)	49.7	(3.7)	35.5	(3.1)	22.6	(2.8)	41.9	(3.4
Kosovo	11.2	(0.9)	33.1	(1.3)	55.7	(1.4)	15.7	(1.1)	33.7	(1.4)	50.6	(1.5
	15.1	(2.6)	17.5	(3.3)	67.4	(3.8)	15.2	(2.8)	29.8	(4.1)	55.0	(4.2
	15.1		36.5		49.0	(2.8)	1.1	(0.5)	58.8	(2.6)	40.1	(2.6
Lithuania	14.5	(1.9)		(2.7)			3.9	(0.0)	52.8	(0.1)	43.2	(0.
Lithuania Macao (China)	14.5 12.5	(0.0)	38.8	(0.1)	48.7	(0.1)			47.7	(0.1)	48.4	(0.
Lithuania Macao (China) Malta	14.5 12.5 6.8	(0.0) (0.0)	38.8 68.7	(0.1) (0.1)	24.5	(0.1)	3.9	(0.0)		(0.1)		
Lithuania Macao (China) Malta Moldova	14.5 12.5 6.8 2.9	(0.0) (0.0) (1.3)	38.8 68.7 3.1	(0.1) (0.1) (1.3)	24.5 94.0	(0.1) (1.5)	3.9 8.4	(0.0) (1.6)	34.9	(3.1)	56.7	
Lithuania Macao (China) Malta Moldova Montenegro	14.5 12.5 6.8 2.9 34.2	(0.0) (0.0) (1.3) (0.5)	38.8 68.7 3.1 13.3	(0.1) (0.1) (1.3) (0.1)	24.5 94.0 52.5	(0.1) (1.5) (0.5)	3.9 8.4 25.2	(0.0) (1.6) (0.3)	34.9 27.5	(3.1) (0.2)	56.7 47.3	(0.2
Lithuania Macao (China) Malta Moldova Montenegro Peru	14.5 12.5 6.8 2.9 34.2 7.5	(0.0) (0.0) (1.3) (0.5) (1.4)	38.8 68.7 3.1 13.3 17.5	(0.1) (0.1) (1.3) (0.1) (2.6)	24.5 94.0 52.5 75.0	(0.1) (1.5) (0.5) (2.9)	3.9 8.4 25.2 8.8	(0.0) (1.6) (0.3) (1.8)	34.9 27.5 42.6	(3.1) (0.2) (3.2)	56.7 47.3 48.6	(0.2
Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar	14.5 12.5 6.8 2.9 34.2 7.5 22.1	(0.0) (0.0) (1.3) (0.5) (1.4) (0.1)	38.8 68.7 3.1 13.3 17.5 42.4	(0.1) (0.1) (1.3) (0.1) (2.6) (0.1)	24.5 94.0 52.5 75.0 35.5	(0.1) (1.5) (0.5) (2.9) (0.1)	3.9 8.4 25.2 8.8 33.6	(0.0) (1.6) (0.3) (1.8) (0.1)	34.9 27.5 42.6 47.0	(3.1) (0.2) (3.2) (0.1)	56.7 47.3 48.6 19.3	(0.2 (3.4 (0.1
Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania	14.5 12.5 6.8 2.9 34.2 7.5 22.1 18.7	(0.0) (0.0) (1.3) (0.5) (1.4) (0.1) (2.9)	38.8 68.7 3.1 13.3 17.5 42.4 27.5	(0.1) (0.1) (1.3) (0.1) (2.6) (0.1) (3.7)	24.5 94.0 52.5 75.0 35.5 53.8	(0.1) (1.5) (0.5) (2.9) (0.1) (3.9)	3.9 8.4 25.2 8.8 33.6 8.1	(0.0) (1.6) (0.3) (1.8) (0.1) (2.3)	34.9 27.5 42.6 47.0 44.2	(3.1) (0.2) (3.2) (0.1) (4.3)	56.7 47.3 48.6 19.3 47.7	(0.2 (3.4 (0.1 (4.4
Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia	14.5 12.5 6.8 2.9 34.2 7.5 22.1 18.7 14.6	(0.0) (0.0) (1.3) (0.5) (1.4) (0.1) (2.9) (3.4)	38.8 68.7 3.1 13.3 17.5 42.4 27.5 14.1	(0.1) (0.1) (1.3) (0.1) (2.6) (0.1) (3.7) (2.6)	24.5 94.0 52.5 75.0 35.5 53.8 71.3	(0.1) (1.5) (0.5) (2.9) (0.1) (3.9) (3.8)	3.9 8.4 25.2 8.8 33.6 8.1 15.2	(0.0) (1.6) (0.3) (1.8) (0.1) (2.3) (2.7)	34.9 27.5 42.6 47.0 44.2 40.0	(3.1) (0.2) (3.2) (0.1) (4.3) (3.9)	56.7 47.3 48.6 19.3 47.7 44.9	(0.2 (3.4 (0.1 (4.4 (4.1
Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore	14.5 12.5 6.8 2.9 34.2 7.5 22.1 18.7 14.6	(0.0) (0.0) (1.3) (0.5) (1.4) (0.1) (2.9) (3.4) (0.6)	38.8 68.7 3.1 13.3 17.5 42.4 27.5 14.1 81.3	(0.1) (0.1) (1.3) (0.1) (2.6) (0.1) (3.7) (2.6) (0.9)	24.5 94.0 52.5 75.0 35.5 53.8 71.3 6.5	(0.1) (1.5) (0.5) (2.9) (0.1) (3.9) (3.8) (0.7)	3.9 8.4 25.2 8.8 33.6 8.1 15.2 2.3	(0.0) (1.6) (0.3) (1.8) (0.1) (2.3) (2.7) (0.5)	34.9 27.5 42.6 47.0 44.2 40.0 77.4	(3.1) (0.2) (3.2) (0.1) (4.3) (3.9) (1.0)	56.7 47.3 48.6 19.3 47.7 44.9 20.4	(0.2 (3.4 (0.1 (4.4 (4.1 (0.8
Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei	14.5 12.5 6.8 2.9 34.2 7.5 22.1 18.7 14.6 12.2 5.2	(0.0) (0.0) (1.3) (0.5) (1.4) (0.1) (2.9) (3.4) (0.6) (1.7)	38.8 68.7 3.1 13.3 17.5 42.4 27.5 14.1 81.3 22.9	(0.1) (0.1) (1.3) (0.1) (2.6) (0.1) (3.7) (2.6) (0.9) (3.1)	24.5 94.0 52.5 75.0 35.5 53.8 71.3 6.5 71.9	(0.1) (1.5) (0.5) (2.9) (0.1) (3.9) (3.8) (0.7) (3.0)	3.9 8.4 25.2 8.8 33.6 8.1 15.2 2.3 1.9	(0.0) (1.6) (0.3) (1.8) (0.1) (2.3) (2.7) (0.5) (0.9)	34.9 27.5 42.6 47.0 44.2 40.0 77.4 46.0	(3.1) (0.2) (3.2) (0.1) (4.3) (3.9) (1.0) (3.6)	56.7 47.3 48.6 19.3 47.7 44.9 20.4 52.1	(0.2 (3.4 (0.7 (4.4 (4.7 (0.8 (3.5)
Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand	14.5 12.5 6.8 2.9 34.2 7.5 22.1 18.7 14.6 12.2 5.2 32.7	(0.0) (0.0) (1.3) (0.5) (1.4) (0.1) (2.9) (3.4) (0.6) (1.7) (3.8)	38.8 68.7 3.1 13.3 17.5 42.4 27.5 14.1 81.3 22.9 43.6	(0.1) (0.1) (1.3) (0.1) (2.6) (0.1) (3.7) (2.6) (0.9) (3.1) (4.0)	24.5 94.0 52.5 75.0 35.5 53.8 71.3 6.5 71.9 23.7	(0.1) (1.5) (0.5) (2.9) (0.1) (3.9) (3.8) (0.7) (3.0) (3.4)	3.9 8.4 25.2 8.8 33.6 8.1 15.2 2.3 1.9	(0.0) (1.6) (0.3) (1.8) (0.1) (2.3) (2.7) (0.5) (0.9) (2.8)	34.9 27.5 42.6 47.0 44.2 40.0 77.4 46.0 53.8	(3.1) (0.2) (3.2) (0.1) (4.3) (3.9) (1.0) (3.6) (4.1)	56.7 47.3 48.6 19.3 47.7 44.9 20.4 52.1 33.1	(0.2 (3.4 (0.7 (4.4 (4.7 (0.8 (3.5 (3.5)
Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	14.5 12.5 6.8 2.9 34.2 7.5 22.1 18.7 14.6 12.2 5.2 32.7 8.5	(0.0) (0.0) (1.3) (0.5) (1.4) (0.1) (2.9) (3.4) (0.6) (1.7) (3.8) (0.1)	38.8 68.7 3.1 13.3 17.5 42.4 27.5 14.1 81.3 22.9 43.6 56.6	(0.1) (0.1) (1.3) (0.1) (2.6) (0.1) (3.7) (2.6) (0.9) (3.1) (4.0) (0.3)	24.5 94.0 52.5 75.0 35.5 53.8 71.3 6.5 71.9 23.7 34.9	(0.1) (1.5) (0.5) (2.9) (0.1) (3.9) (3.8) (0.7) (3.0) (3.4) (0.3)	3.9 8.4 25.2 8.8 33.6 8.1 15.2 2.3 1.9 13.0 2.7	(0.0) (1.6) (0.3) (1.8) (0.1) (2.3) (2.7) (0.5) (0.9) (2.8) (0.1)	34.9 27.5 42.6 47.0 44.2 40.0 77.4 46.0 53.8 29.1	(3.1) (0.2) (3.2) (0.1) (4.3) (3.9) (1.0) (3.6) (4.1) (0.3)	56.7 47.3 48.6 19.3 47.7 44.9 20.4 52.1 33.1 68.2	(0.2 (3.4 (0.1 (4.4 (4.1 (0.8 (3.5 (3.5 (0.3
Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	14.5 12.5 6.8 2.9 34.2 7.5 22.1 18.7 14.6 12.2 5.2 32.7 8.5 52.1	(0.0) (0.0) (1.3) (0.5) (1.4) (0.1) (2.9) (3.4) (0.6) (1.7) (3.8)	38.8 68.7 3.1 13.3 17.5 42.4 27.5 14.1 81.3 22.9 43.6	(0.1) (0.1) (1.3) (0.1) (2.6) (0.1) (3.7) (2.6) (0.9) (3.1) (4.0) (0.3) (2.6)	24.5 94.0 52.5 75.0 35.5 53.8 71.3 6.5 71.9 23.7 34.9 39.1	(0.1) (1.5) (0.5) (2.9) (0.1) (3.9) (3.8) (0.7) (3.0) (3.4) (0.3) (4.2)	3.9 8.4 25.2 8.8 33.6 8.1 15.2 2.3 1.9	(0.0) (1.6) (0.3) (1.8) (0.1) (2.3) (2.7) (0.5) (0.9) (2.8) (0.1) (4.3)	34.9 27.5 42.6 47.0 44.2 40.0 77.4 46.0 53.8	(3.1) (0.2) (3.2) (0.1) (4.3) (3.9) (1.0) (3.6) (4.1) (0.3) (3.3)	56.7 47.3 48.6 19.3 47.7 44.9 20.4 52.1 33.1	(0.2 (3.4 (0.1 (4.4 (4.1 (0.8 (3.5 (3.5 (0.3 (4.3
Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Triniidad and Tobago Tunisia United Arab Emirates	14.5 12.5 6.8 2.9 34.2 7.5 22.1 18.7 14.6 12.2 5.2 32.7 8.5	(0.0) (0.0) (1.3) (0.5) (1.4) (0.1) (2.9) (3.4) (0.6) (1.7) (3.8) (0.1) (4.3)	38.8 68.7 3.1 13.3 17.5 42.4 27.5 14.1 81.3 22.9 43.6 56.6 8.8	(0.1) (0.1) (1.3) (0.1) (2.6) (0.1) (3.7) (2.6) (0.9) (3.1) (4.0) (0.3)	24.5 94.0 52.5 75.0 35.5 53.8 71.3 6.5 71.9 23.7 34.9	(0.1) (1.5) (0.5) (2.9) (0.1) (3.9) (3.8) (0.7) (3.0) (3.4) (0.3)	3.9 8.4 25.2 8.8 33.6 8.1 15.2 2.3 1.9 13.0 2.7 35.4	(0.0) (1.6) (0.3) (1.8) (0.1) (2.3) (2.7) (0.5) (0.9) (2.8) (0.1)	34.9 27.5 42.6 47.0 44.2 40.0 77.4 46.0 53.8 29.1 14.1	(3.1) (0.2) (3.2) (0.1) (4.3) (3.9) (1.0) (3.6) (4.1) (0.3)	56.7 47.3 48.6 19.3 47.7 44.9 20.4 52.1 33.1 68.2 50.5	(0.2 (3.4 (0.1 (4.2 (4.1 (0.8 (3.5 (3.7 (0.3 (4.3
Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	14.5 12.5 6.8 2.9 34.2 7.5 22.1 18.7 14.6 12.2 5.2 32.7 8.5 52.1 9.6	(0.0) (0.0) (1.3) (0.5) (1.4) (0.1) (2.9) (3.4) (0.6) (1.7) (3.8) (0.1) (4.3) (1.6)	38.8 68.7 3.1 13.3 17.5 42.4 27.5 14.1 81.3 22.9 43.6 56.6 8.8 32.8	(0.1) (0.1) (1.3) (0.1) (2.6) (0.1) (3.7) (2.6) (0.9) (3.1) (4.0) (0.3) (2.6) (2.3)	24.5 94.0 52.5 75.0 35.5 53.8 71.3 6.5 71.9 23.7 34.9 39.1 57.6	(0.1) (1.5) (0.5) (2.9) (0.1) (3.9) (3.8) (0.7) (3.0) (3.4) (0.3) (4.2) (2.2)	3.9 8.4 25.2 8.8 33.6 8.1 15.2 2.3 1.9 13.0 2.7 35.4 46.1	(0.0) (1.6) (0.3) (1.8) (0.1) (2.3) (2.7) (0.5) (0.9) (2.8) (0.1) (4.3) (2.6)	34.9 27.5 42.6 47.0 44.2 40.0 77.4 46.0 53.8 29.1 14.1 30.2	(3.1) (0.2) (3.2) (0.1) (4.3) (3.9) (1.0) (3.6) (4.1) (0.3) (3.3) (2.3)	56.7 47.3 48.6 19.3 47.7 44.9 20.4 52.1 33.1 68.2 50.5 23.7	(0.2 (3.4 (0.1) (4.4 (4.1) (0.8 (3.5 (0.3 (4.3 (2.8 (2.4
Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	14.5 12.5 6.8 2.9 34.2 7.5 22.1 18.7 14.6 12.2 5.2 32.7 8.5 52.1 9.6 6.7 17.8	(0.0) (0.0) (1.3) (0.5) (1.4) (0.1) (2.9) (3.4) (0.6) (1.7) (3.8) (0.1) (4.3) (1.6) (1.6) (2.7)	38.8 68.7 3.1 13.3 17.5 42.4 27.5 14.1 81.3 22.9 43.6 56.6 8.8 32.8 8.7 64.9	(0.1) (0.1) (1.3) (0.1) (2.6) (0.1) (3.7) (2.6) (0.9) (3.1) (4.0) (0.3) (2.6) (2.3) (2.1) (3.5)	24.5 94.0 52.5 75.0 35.5 53.8 71.3 6.5 71.9 23.7 34.9 39.1 57.6 84.6 17.3	(0.1) (1.5) (0.5) (2.9) (0.1) (3.9) (3.8) (0.7) (3.0) (3.4) (0.3) (4.2) (2.2) (2.6) (3.3)	3.9 8.4 25.2 8.8 33.6 8.1 15.2 2.3 1.9 13.0 2.7 35.4 46.1 5.3 24.8	(0.0) (1.6) (0.3) (1.8) (0.1) (2.3) (2.7) (0.5) (0.9) (2.8) (0.1) (4.3) (2.6) (1.5) (2.5)	34.9 27.5 42.6 47.0 44.2 40.0 77.4 46.0 53.8 29.1 14.1 30.2 10.6 48.3	(3.1) (0.2) (3.2) (0.1) (4.3) (3.9) (1.0) (3.6) (4.1) (0.3) (3.3) (2.3) (2.0) (3.7)	56.7 47.3 48.6 19.3 47.7 44.9 20.4 52.1 33.1 68.2 50.5 23.7 84.1 26.8	(3.4 (0.2 (3.4 (0.1 (4.4 (4.1 (0.8 (3.5 (3.7 (0.3 (4.3 (2.8 (2.4 (3.6 (4.4
Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	14.5 12.5 6.8 2.9 34.2 7.5 22.1 18.7 14.6 12.2 5.2 32.7 8.5 52.1 9.6 6.7	(0.0) (0.0) (1.3) (0.5) (1.4) (0.1) (2.9) (3.4) (0.6) (1.7) (3.8) (0.1) (4.3) (1.6) (1.6)	38.8 68.7 3.1 13.3 17.5 42.4 27.5 14.1 81.3 22.9 43.6 56.6 8.8 32.8 8.7	(0.1) (0.1) (1.3) (0.1) (2.6) (0.1) (3.7) (2.6) (0.9) (3.1) (4.0) (0.3) (2.6) (2.3) (2.1)	24.5 94.0 52.5 75.0 35.5 53.8 71.3 6.5 71.9 23.7 34.9 39.1 57.6 84.6	(0.1) (1.5) (0.5) (2.9) (0.1) (3.9) (3.8) (0.7) (3.0) (3.4) (0.3) (4.2) (2.2) (2.6)	3.9 8.4 25.2 8.8 33.6 8.1 15.2 2.3 1.9 13.0 2.7 35.4 46.1 5.3	(0.0) (1.6) (0.3) (1.8) (0.1) (2.3) (2.7) (0.5) (0.9) (2.8) (0.1) (4.3) (2.6) (1.5)	34.9 27.5 42.6 47.0 44.2 40.0 77.4 46.0 53.8 29.1 14.1 30.2 10.6	(3.1) (0.2) (3.2) (0.1) (4.3) (3.9) (1.0) (3.6) (4.1) (0.3) (3.3) (2.3) (2.0)	56.7 47.3 48.6 19.3 47.7 44.9 20.4 52.1 33.1 68.2 50.5 23.7 84.1	(0.2 (3.4 (0.1) (4.4 (4.1) (0.8 (3.5 (0.3 (4.3 (2.8 (2.4

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** Line** http://dx.doi.org/10.1787/888933436509



[Part 1/3]

Table II.5.25 Ability grouping between classes, science performance and school characteristics

Results based on school principals' reports

	-	Students ir	schools w	hose prine	cipal repor	ted that st	udents are	grouped b	y ability in	nto differen	t classes f	or some or	all subject	ts
		All st	udents					By sch	ool socio-	economic	profile ¹			
	Ave	erage	Varia	bility	Bottom	quarter	Second	quarter	Third	quarter	Тор с	uarter		bottom arter
	%	S.E.	SD.	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	% dif.	S.E
Australia	88.1	(1.1)	32.3	(1.4)	90.1	(2.5)	87.8	(2.8)	86.7	(2.7)	87.9	(3.2)	-2.2	(4.1
Austria	16.4	(2.4)	37.0	(2.2)	32.2	(5.9)	14.7	(4.6)	7.4	(3.7)	12.0	(5.2)	-20.2	(7.3
Belgium	28.4	(3.0)	45.1	(1.4)	30.5	(6.5)	26.6	(6.1)	28.2	(6.3)	28.3	(5.9)	-2.2	(8.8)
Canada Chile	86.8 27.1	(1.6)	33.8 44.4	(1.8)	88.6 33.6	(2.1)	85.0 21.4	(3.8)	88.6 19.2	(3.5)	84.8 33.0	(4.6) (5.8)	-3.7 -0.6	(5.1
Czech Republic	28.9	(2.5)	45.3	(1.2)	25.7	(5.1)	32.2	(6.1)	29.3	(5.8)	28.2	(5.9)	2.5	(7.5
Denmark	25.2	(3.2)	43.4	(1.8)	28.2	(7.3)	30.8	(8.0)	24.3	(8.3)	18.1	(7.5)	-10.1	(11.3
Estonia	38.1	(2.6)	48.6	(0.6)	41.8	(6.6)	38.4	(6.9)	54.1	(5.4)	18.7	(3.3)	-23.1	(7.
Finland	53.2	(4.2)	49.9	(0.3)	52.2	(7.7)	69.4	(9.6)	49.1	(10.2)	41.7	(8.1)	-10.6	(11.
France	24.3	(2.9)	42.9	(1.8)	25.2	(6.2)	18.1	(6.4)	19.1	(5.7)	34.9	(7.0)	9.7	(9.
Germany	30.0 11.6	(3.2)	45.8 32.0	(1.4)	42.8 13.4	(6.5) (4.9)	43.8	(6.9)	23.1 7.7	(6.8)	10.6 19.9	(4.4)	-32.2 6.4	(8.
Greece Hungary	35.1	(3.5)	47.7	(1.1)	10.1	(4.4)	29.9	(6.5)	43.0	(7.2)	56.7	(6.5)	46.6	(8.
Iceland	22.6	(0.2)	41.8	(0.1)	16.7	(0.5)	37.7	(0.9)	15.7	(1.1)	19.8	(0.2)	3.1	(0.
Ireland	95.9	(1.5)	19.8	(3.6)	92.1	(3.7)	100.0	(0.5)	100.0	C,	92.0	(4.5)	-0.1	(5.9
Israel	97.8	(1.3)	14.8	(4.3)	92.3	(5.1)	100.0	(1.0)	100.0	С	98.7	(1.3)	6.4	(5.
Italy	13.1	(2.5)	33.8	(2.7)	22.4	(5.9)	8.7	(5.3)	5.8	(3.5)	15.9	(7.2)	-6.6	(9.
Japan	53.6	(3.6)	49.9	(0.3)	42.0	(6.7)	57.6	(8.1)	52.6	(7.9)	62.1	(7.2)	20.2	(9.
Korea	57.8	(4.0)	49.4	(0.7)	39.9	(7.7)	67.3	(8.4)	61.8	(7.6)	62.3	(8.3)	22.4	(11.
Latvia	18.7	(2.0)	39.0	(1.6)	12.6	(4.9)	13.6	(4.6)	18.6	(5.0)	29.8	(3.6)	17.2	(6.
Luxembourg Mexico	71.8 46.9	(0.1)	45.0 49.9	(0.0)	83.2 50.2	(0.3)	54.5 50.8	(0.4)	81.6 44.2	(0.1)	67.6 42.5	(0.3)	-15.6 -7.6	(0.
	70.8	(4.7)	45.4	(2.3)	82.2	(10.1)	77.7	(9.4)	62.7	(12.2)	62.3	(10.3)	-20.0	(14.
Netherlands New Zealand	89.9	(2.3)	30.1	(3.0)	84.7	(4.9)	91.9	(4.5)	93.7	(3.8)	88.6	(5.7)	3.9	(7.
Norway	15.7	(2.8)	36.4	(2.7)	13.8	(6.2)	21.7	(9.0)	9.6	(4.7)	17.9	(5.3)	4.1	(8.
Poland	38.0	(4.0)	48.5	(1.0)	33.1	(7.3)	33.6	(7.9)	36.9	(9.2)	49.2	(9.2)	16.1	(11.
Portugal	11.6	(2.7)	32.1	(3.2)	14.7	(6.4)	22.1	(7.8)	7.9	(6.7)	2.9	(2.9)	-11.8	(7.
Slovak Republic	34.6	(3.0)	47.6	(0.9)	25.6	(6.0)	31.5	(7.0)	32.9	(6.8)	48.8	(7.8)	23.1	(10.
Slovenia	34.7	(0.5)	47.6	(0.2)	33.1	(1.5)	21.3	(1.7)	35.3	(2.6)	48.9	(0.6)	15.8	(1.
Spain	40.3	(3.6)	49.0	(0.8)	29.2	(7.1)	43.4	(8.2)	41.0	(8.0)	47.3	(6.5)	18.1	(9.
Sweden	21.4	(2.8)	41.0	(2.0)	21.5	(6.7)	28.5	(7.3)	8.9	(4.6)	26.9	(7.6)	5.5	(9.
Switzerland	62.3	(3.4)	48.5	(0.9)	69.8	(5.9)	81.3	(5.9)	70.2	(6.3)	27.5	(8.1)	-42.3	(10.
Turkey United Kingdom	30.5 99.8	(3.5)	46.1 4.8	(1.4)	26.8	(9.1) c	24.0 100.0	(8.3) c	24.1 99.7	(8.2)	47.1 99.4	(8.0)	20.3 -0.6	(14.:
United States	82.6	(3.2)	37.9	(2.7)	76.5	(7.6)	85.6	(7.5)	81.7	(6.2)	86.6	(5.7)	10.1	(9.
OECD average	45.8	(0.5)	40.2	(0.3)	45.0	(1.0)	47.3	(1.1)	44.7	(1.0)	46.3	(1.0)	1.2	(1.
Albania	44.0	(4.1)	49.6	(0.5)	55.6	(7.7)	40.3	(8.2)	40.5	(9.5)	41.8	(7.9)	-13.7	(10.
Algeria	66.2	(3.7)	47.3	(1.3)	60.1	(8.4)	72.6	(8.3)	62.8	(9.5)	69.1	(7.8) (6.9)	9.0	(10.:
Brazil	10.2	(1.5)	30.3	(2.0)	15.9	(4.4)	9.4	(3.6)	8.1	(3.2)	8.7	(2.8)	-7.2	(5.
B-S-J-G (China)	36.6	(3.4)	48.2	(0.9)	12.0	(6.0)	41.6	(8.1)	36.8	(10.5)	56.1	(7.6)	44.0	(9.
Bulgaria	26.3	(3.0)	44.0	(1.7)	24.2	(7.0)	24.9	(8.9)	34.3	(7.6)	21.4	(8.1)	-2.8	(11.
CABA (Argentina)	33.4	(6.8)	47.1	(2.5)	17.8	(9.3)	11.4	(17.2)	74.7	(15.3)	29.0	(20.3)	11.3	(23.
Colombia	37.3	(3.9)	48.4	(1.0)	21.7	(7.1)	48.4	(8.1)	27.3	(7.4)	48.1	(8.0)	26.4	(10.
Costa Rica	43.5	(4.3)	49.6	(0.7)	34.1	(8.3)	51.8	(8.1)	34.8	(8.0)	52.9	(8.3)	18.8	(11.
Croatia	22.9	(3.2)	42.0	(2.1)	21.8	(7.2)	18.1	(7.9)	24.6	(8.7)	27.0	(7.1)	5.3	(10.
Cyprus*	27.0	(0.1)	44.4	(0.1)	30.5	(0.5)	7.9	(0.5)	37.0	(0.4)	32.6	(0.2)	2.1	(0.
Dominican Republic FYROM	36.7 42.3	(4.4)	48.2 49.4	(1.2)	47.1 42.2	(11.6)	33.5 29.9	(10.4)	21.8 44.9	(8.1)	45.3 53.3	(9.5) (0.5)	-1.9 11.1	(14.
Georgia	9.1	(1.9)	28.8	(2.7)	7.7	(3.4)	7.5	(3.6)	1.7	(2.3)	19.4	(6.1)	11.7	(7.
Hong Kong (China)	90.6	(2.2)	29.1	(3.1)	100.0	(3.4) C	90.4	(4.7)	82.0	(7.3)	90.5	(4.1)	-9.5	(4.
Indonesia	38.2	(3.3)	48.6	(0.8)	24.8	(7.4)	47.9	(7.1)	34.8	(7.7)	44.7	(7.0)	19.9	(10.
Jordan	50.3	(3.7)	50.0	(0.1)	37.3	(7.4)	49.4	(9.2)	48.8	(10.2)	65.9	(7.5)	28.5	(10.
Kosovo	44.3	(1.4)	49.7	(0.2)	51.1	(3.9)	40.3	(3.3)	52.2	(3.2)	33.0	(3.1)	-18.1	(5.
Lebanon	32.6	(3.8)	46.9	(1.4)	28.9	(9.9)	27.9	(9.2)	33.9	(7.3)	38.5	(8.2)	9.6	(12.
Lithuania	51.0	(2.8)	50.0	(0.1)	34.2	(7.1)	50.3	(6.5)	60.8	(6.5)	58.5	(5.0)	24.3	(8.
Macao (China) Malta	51.3 75.5	(0.1)	50.0 43.0	(0.0)	20.6	(0.2)	72.6 71.3	(0.1)	44.2 71.7	(0.3)	67.7 58.4	(0.1)	47.1 -41.6	(0.
Maita Moldova	6.0	(0.1)	23.8	(2.8)	0.8	(0.8)	7.1	(3.6)	7.3	(4.1)	9.0	(2.2)	8.2	(2.
Montenegro	47.5	(0.5)	49.9	(0.0)	36.0	(1.5)	49.4	(0.9)	37.2	(0.8)	67.5	(0.2)	31.5	(2.
Peru	25.0	(2.9)	43.3	(1.7)	21.6	(5.1)	26.3	(6.8)	22.6	(6.1)	29.7	(5.6)	8.1	(7.
Qatar	64.5	(0.1)	47.8	(0.0)	67.6	(0.3)	85.5	(0.2)	43.2	(0.3)	61.9	(0.3)	-5.7	(0.
Romania	46.2	(3.9)	49.9	(0.3)	35.2	(6.8)	48.4	(10.4)	47.0	(9.0)	54.2	(10.0)	18.9	(12.
Russia	28.7	(3.8)	45.2	(1.8)	12.9	(4.1)	17.3	(9.2)	34.1	(10.6)	50.6	(9.5)	37.7	(10.
Singapore	93.5	(0.7)	24.6	(1.2)	97.1	(0.1)	100.0	С	89.8	(2.8)	87.2	(4.0)	-9.9	(4.
Chinese Taipei	28.1	(3.0)	44.9	(1.5)	26.8	(6.3)	17.3	(5.9)	39.1	(7.3)	28.7	(7.6)	1.9	(9.
Thailand	76.3	(3.4)	42.6	(2.1)	68.3	(6.8)	73.9	(7.6)	77.6	(7.7)	85.4	(7.5)	17.1	(9.
Trinidad and Tobago	65.1	(0.3)	47.7	(0.1)	65.6	(1.0)	69.3	(1.3)	72.1	(0.6)	52.6	(0.3)	-13.0	(1.
Tunisia United Arab Emirates	60.9	(4.2)	48.8	(0.9)	53.8	(8.0)	69.7	(9.2)	62.7	(9.9)	56.3	(9.7)	2.5	(12.
	42.4 15.4	(2.2)	49.4 36.1	(0.3)	28.8	(6.4) (4.9)	40.3 8.4	(5.6) (5.0)	40.5 15.6	(5.8)	59.4 22.9	(4.0)	30.6 8.6	(7.
		14.07	1 20.1	(4.3)	1 14.4	(4.7)	0.4	(3.0)	1 13.0	(3.3)	44.9	(0./)	0.0	
Uruguay									80.3	(8.7)	95.6	(3.4)	18.9	(8
Uruguay Viet Nam	82.7	(3.3)	37.8	(2.9)	76.7	(8.1)	77.9	(7.4)	80.3	(8.7)	95.6	(3.4)	18.9	
									80.3 19.7 54.2	(8.8) (9.6)	95.6 30.5 59.5	(3.4) (8.1) (7.4)	-2.0 16.1	(8. (11. (11.

PISA 2015 RESULTS (VOLUME II): POLICIES AND PRACTICES FOR SUCCESSFUL SCHOOLS



[Part 2/3]

Table II.5.25 Ability grouping between classes, science performance and school characteristics

		Ì	Students in	schools w	hose princ	ipal repor	ted that stu	idents are	grouped b	v ability in	to differen	t classes f	or some or	all subject	ts
			Stauciiis iii	56110015 11		I location	teu tiiut sti	idento di c	g.oupeu s		to differen		of school	un subject	-
		(few	ea or village er than people)	(3 0	wn 00 to) people)	C (0	ity ver) people)	City - r	ural area	Pul	blic		vate	Private	– publi
		%	S.E.	%	S.E.	%	S.E.	% dif.	S.E.	%	S.E.	%	S.E.	% dif.	S.E.
1	Australia	71.8	(10.2)	88.0	(2.5)	89.1	(1.3)	17.3	(10.2)	85.8	(1.5)	91.2	(1.8)	5.4	(2.4
	Austria	16.5	(8.5)	16.7	(3.2)	16.1	(4.3)	-0.4	(9.5)	16.1	(2.4)	19.7	(9.2)	3.6	(9.3
)	Belgium Canada	36.4 71.7	(19.8)	31.3	(4.1)	19.2 88.4	(4.6)	-17.2	(20.1)	87.4	(1.7)	81.5	(6.8)	-5.9	(7.1
ì	Chile	29.0	(7.2) (21.8)	87.6 30.0	(6.9)	25.6	(4.4)	16.7 -3.4	(7.6) (22.3)	41.4	(7.5)	19.1	(3.5)	-22.4	(8.3
	Czech Republic	16.2	(6.1)	30.5	(3.7)	31.7	(4.9)	15.4	(8.1)	27.2	(2.8)	50.4	(8.1)	23.3	(8.9
١	Denmark	45.3	(9.6)	23.2	(3.5)	14.2	(5.2)	-31.1	(10.8)	19.8	(3.3)	43.0	(8.1)	23.3	(8.8)
ĺ	Estonia	19.6	(5.3)	50.9	(3.9)	30.7	(3.8)	11.1	(6.5)	37.9	(2.7)	30.1	(9.2)	-7.9	(9.6
	Finland	39.6	(11.2)	59.8	(5.8)	46.5	(7.0)	6.9	(12.6)	53.4	(4.2)	41.5	(17.6)	-12.0	(18.1
ì	France Germany	0.0	(1.4.4)	23.7	(3.9)	27.8	(6.1)	27.8 -36.9	(6.1)	21.3	(3.4)	33.3	(6.5)	12.0 -10.0	(7.4
ı	Greece	56.6 3.8	(14.4)	30.7 12.5	(3.8)	19.7 9.1	(7.2)	5.3	(17.1) (4.5)	30.6 9.7	(3.3) (2.2)	20.6 44.4	(9.9) (14.0)	34.7	(10.2
ì	Hungary	15.0	(10.4)	31.3	(4.6)	40.8	(5.6)	25.8	(11.1)	33.5	(3.8)	41.4	(8.2)	7.9	(8.9
ı	Iceland	11.8	(0.5)	36.8	(0.4)	4.4	(0.3)	-7.4	(0.6)	23.0	(0.2)	m	m	m	(O.,
	Ireland	96.0	(3.9)	97.0	(1.8)	94.4	(3.2)	-1.5	(5.0)	93.4	(2.8)	97.6	(1.7)	4.2	(3.3
	Israel	100.0	С	98.0	(1.5)	96.5	(2.9)	-3.5	(2.9)	m	m	m	m	m	
	Italy	27.7	(24.6)	11.9	(2.9)	15.0	(5.0)	-12.6	(24.2)	13.3	(2.5)	8.2	(8.6)	-5.2	(8.8)
į	Japan	m	m	60.3	(6.5)	50.9	(4.2)	m	m	49.2	(3.7)	63.1	(7.1)	13.9	(7.
	Korea Latvia	m 3.7	m (2.6)	47.8 20.8	(11.2)	59.6	(4.2)	m 22.6	m (4.1)	56.0 18.7	(4.8)	61.2 18.7	(6.9)	5.3	(8
į	Latvia Luxembourg	3.7 m	(2.6) m	20.8 77.7	(3.4)	26.3 64.0	(0.2)	22.6 m	(4.1) m	75.8	(2.0)	50.7	(19.6)	-25.2	(19.
	Mexico	57.9	(8.7)	43.5	(7.3)	44.7	(4.7)	-13.3	(10.1)	44.9	(4.0)	61.1	(8.0)	16.2	(8.
Į	Netherlands	m	(0.7)	73.0	(5.7)	63.0	(9.3)	m	m	62.7	(8.7)	74.9	(5.7)	12.1	(10.
	New Zealand	57.1	(15.6)	89.7	(3.9)	92.2	(3.1)	35.0	(16.0)	91.6	(2.1)	68.5	(16.4)	-23.1	(16.
	Norway	9.2	(4.5)	17.2	(3.8)	17.9	(7.2)	8.7	(7.5)	15.1	(2.9)	52.6	(25.9)	37.5	(26.
	Poland	35.4	(5.9)	37.0	(7.4)	44.3	(8.8)	8.9	(10.6)	37.9	(4.1)	39.7	(19.1)	1.8	(19.
	Portugal	16.3	(14.0)	14.2	(3.5)	2.6	(3.0)	-13.7	(14.5)	12.5	(2.9)	0.2	(0.0)	-12.3	(2.
	Slovak Republic	16.5 43.0	(5.2)	37.9	(4.1)	42.0	(9.3)	25.5	(10.8)	35.6	(3.1)	27.0	(0.8)	-8.6 19.2	(8.
	Slovenia Spain	13.7	(6.8) (12.7)	37.2 39.6	(0.7)	29.7 44.6	(0.5)	-13.3 30.8	(6.8) (14.4)	34.1 40.2	(0.5)	53.3 40.5	(0.8)	0.3	(0.
	Sweden	40.6	(11.6)	15.2	(3.3)	28.8	(6.8)	-11.8	(13.4)	19.2	(3.1)	31.5	(9.0)	12.3	(10.
	Switzerland	43.8	(12.0)	65.7	(4.0)	58.7	(8.7)	14.9	(15.1)	64.6	(3.6)	21.9	(13.3)	-42.8	(13.
	Turkey	0.0	С	30.0	(5.9)	31.8	(5.0)	31.8	(5.0)	30.0	(3.6)	44.4	(23.3)	14.5	(23.
	United Kingdom	99.2	(0.6)	99.7	(0.2)	100.0	С	0.8	(0.6)	99.8	(0.1)	99.2	(0.2)	-0.6	(0
	United States	64.5	(13.7)	82.2	(4.3)	87.9	(4.0)	23.4	(14.2)	81.1	(3.4)	100.0	С	18.9	(3.4
	OECD average	37.4	(1.9)	47.1	(0.8)	44.5	(0.9)	5.2	(2.1)	43.7	(0.6)	46.7	(1.9)	2.4	(2.0
Ì	Albania	31.3	(6.8)	43.2	(6.1)	56.5	(7.4)	25.2	(10.1)	42.0	(3.6)	58.2	(14.4)	16.2	(14.
	Algeria	64.2	(9.3)	64.7	(4.7)	69.4	(11.4)	5.2	(14.8)	66.1	(3.8)	m	m	m	- 1
	Brazil	22.5	(11.0)	10.6	(2.4)	9.7	(2.3)	-12.8	(11.1)	9.8	(1.8)	13.3	(4.8)	3.5	(5.
	B-S-J-G (China)	13.6	(11.0)	30.9	(5.4)	49.7	(5.7)	36.1	(12.5)	34.6	(3.8)	48.9	(13.2)	14.3	(14.
	Bulgaria	14.1	(12.7)	30.1	(4.6)	21.9	(5.2)	7.8	(13.6)	26.1	(3.1)	m	(12.0)	m	/12
	CABA (Argentina) Colombia	22.8	m (8.6)	m 41.8	m (7.8)	33.0 39.1	(7.4) (4.7)	m 16.3	m (9.3)	17.4 37.6	(6.7) (4.3)	50.8 31.6	(12.0)	-6.0	(12.
	Costa Rica	47.3	(8.5)	43.0	(5.6)	38.4	(9.3)	-8.9	(11.9)	45.4	(4.6)	30.2	(9.0)	-15.2	(9.
	Croatia	m	(0.5)	27.3	(4.5)	17.1	(4.4)	m	m	23.4	(3.2)	0.0	(J.U)	-23.4	(3.
	Cyprus*	25.6	(0.4)	28.9	(0.2)	23.4	(0.2)	-2.2	(0.4)	22.9	(0.1)	48.1	(0.3)	25.2	(0.
	Dominican Republic	50.6	(14.4)	36.6	(5.5)	31.2	(10.1)	-19.5	(17.8)	32.7	(5.0)	49.6	(9.7)	16.9	(10.
	FYROM	63.1	(0.4)	44.7	(0.2)	39.0	(0.2)	-24.1	(0.5)	41.3	(0.1)	78.3	(0.8)	37.0	(0.
	Georgia	5.5	(2.6)	11.0	(3.2)	11.1	(3.7)	5.6	(4.4)	7.3	(1.8)	24.6	(11.2)	17.3	(11.
	Hong Kong (China)	21 O	m (6.4)	m 40.6	(F, O)	90.6	(2.2)	m g 7	m (12.7)	100.0	(4.2)	90.0	(2.3)	-10.0	(2.
	Indonesia Jordan	31.9 52.8	(6.4)	40.6 44.3	(5.0) (4.9)	40.6 55.8	(9.5) (6.6)	8.7 3.0	(12.7) (12.5)	38.3 48.9	(4.3)	38.1 52.5	(5.6) (7.8)	-0.2 3.6	(7. (9.
	Kosovo	41.1	(4.3)	46.5	(1.6)	40.7	(2.8)	-0.4	(5.2)	43.7	(1.4)	71.0	(13.2)	27.2	(13.
	Lebanon	20.8	(7.7)	35.2	(5.1)	31.7	(7.9)	10.9	(11.1)	27.0	(4.9)	38.0	(5.2)	11.0	(6.
	Lithuania	26.2	(6.2)	52.5	(5.5)	63.1	(3.2)	36.9	(7.0)	51.0	(2.8)	49.5	(24.7)	-1.5	(24.
	Macao (China)	m	m	m	m	51.5	(0.1)	m	m	m	m	52.7	(0.1)	m	
	Malta	86.7	(0.2)	73.4	(0.1)	m	m	m	m	88.3	(0.1)	55.1	(0.2)	-33.1	(0.
	Moldova	4.0	(1.9)	7.5	(3.7)	9.4	(1.6)	5.4	(2.5)	5.9	(1.6)	m	m	m	
	Montenegro	m	m (F.4)	51.1	(0.6)	39.0	(0.3)	m	(10.9)	47.2	(0.5)	21.0	m (F O)	10.0	16
	Peru Qatar	28.4 56.3	(5.4)	21.0 69.2	(3.5)	38.3 61.0	(9.0)	9.8 4.7	(10.8)	21.9 63.7	(3.5)	31.9 64.9	(5.0)	10.0 1.2	(6. (0.
	Romania	16.6	(8.2)	52.5	(5.1)	44.7	(5.9)	28.0	(10.5)	46.0	(3.9)	m 04.9	(0.2) m	m	(0.
	Russia	1.6	(1.5)	22.0	(5.5)	40.3	(5.7)	38.8	(5.9)	28.8	(3.9)	m	m	m	
	Singapore	m	m	m	m	93.6	(0.8)	m	m	94.5	(0.1)	82.2	(8.1)	-12.4	(8.
	Chinese Taipei	m	m	22.4	(5.0)	31.3	(4.1)	m	m	17.7	(3.2)	48.4	(6.1)	30.8	(6.
	Thailand	51.4	(8.6)	79.6	(4.2)	85.3	(6.2)	33.8	(11.5)	78.6	(3.8)	62.7	(8.7)	-15.9	(9.
	Trinidad and Tobago	47.9	(0.8)	67.5	(0.3)	m	m	m	m	64.6	(0.3)	84.2	(0.4)	19.6	(0.
	Tunisia	100.0	С	61.4	(5.0)	50.5	(9.0)	-49.5	(9.0)	60.4	(4.3)	68.5	(20.3)	8.0	(21.
	United Arab Emirates	29.5	(8.2)	49.2	(5.6)	41.2	(2.6)	11.7	(8.7)	41.6	(3.9)	43.4	(2.9)	1.8	(5.
	Uruguay	11.0	(8.2)	13.3	(3.1)	19.0	(4.8)	8.0	(9.4)	12.1	(2.4)	34.0	(10.2)	21.9	(10.
		80.8	(5.0)	80.3	(7.3)	88.3	(4.4)	7.5	(7.0)	84.4	(3.3)	41.6	(14.4)	-42.7	(14.
	Viet Nam														
	Argentina** Kazakhstan**	17.7 47.9	(10.0)	20.7 60.4	(4.6) (7.2)	28.8 48.8	(4.9) (5.8)	11.1	(11.2)	22.0 51.1	(3.8)	30.6 56.9	(6.5) (16.9)	8.5 5.8	(7. (17.

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Notes: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

* Coverage is too small to ensure comparability (see Annex A4).

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[Part 3/3]

Table II.5.25 Ability grouping between classes, science performance and school characteristics

Res	ults based on school				L		4 4 4 4 -			L.: 11:4 !	4 - 1:66	4 -l f		-111-1	4-
			Students in	schools w	nose princ	ipai repor	tea that sti	T .	grouped by re accounti		-	1	r accounti		
				By educa	tion level				ools' socio	-economic	profile ¹		nools' socio	-economi	c profile
		educ	econdary cation ED 2)	Upper se educa (ISCE	ation ´	ISCED 3	- ISCED 2	score (re	in science ferece: not subject)	in str	d variance udent mance ed x 100)	score (ref	n science erece: not subject)	in str	d variance udent rmance red x 100)
		%	S.E.	%	S.E.	% dif.	S.E.	Score dif.		%	S.E.	Score dif.	S.E.	%	S.E.
Q	Australia	88.0	(1.2)	89.1	(3.1)	1.1	(3.2)	3	(6.0)	0.0	(0.0)	3	(5.1)	16.7	(1.1)
OECD	Austria Belgium	24.1 35.7	(11.9)	16.2 27.7	(2.5)	-7.8 -8.0	(12.2)	-42 -2	(8.6)	2.6 0.0	(1.1)	-14	(6.5) (4.6)	31.0 35.6	(1.9)
	Canada	82.1	(3.2)	87.5	(1.6)	5.3	(2.9)	2	(6.5)	0.0	(0.1)	2	(4.8)	11.1	(1.0)
	Chile	15.5	(6.2)	27.8	(3.6)	12.3	(6.5)	2	(9.3)	0.0	(0.2)	-1	(6.4)	26.3	(1.7)
	Czech Republic	29.4	(3.8)	28.3	(3.3)	-1.0	(5.2)	-3	(7.9)	0.0	(0.1)	-9	(4.1)	33.5	(2.1)
	Denmark Estonia	25.2 38.0	(3.2)	m 52.4	m (12.5)	m 14.5	m (12.5)	-11 -11	(6.4)	0.3	(0.3)	-4 -5	(5.9)	12.3 11.2	(1.4)
	Finland	53.3	(4.2)	m	m	m	m	-10	(4.9)	0.3	(0.3)	-4	(3.9)	11.0	(1.4)
	France	19.9	(5.3)	25.5	(3.5)	5.7	(6.3)	7	(11.6)	0.1	(0.3)	-4	(7.0)	37.2	(2.3)
	Germany Greece	30.1 49.0	(3.3)	27.1 9.8	(15.1)	-3.0 -39.2	(15.4) (10.6)	-55 -10	(8.7)	6.2 0.1	(2.0)	-17 -22	(6.5) (6.9)	35.9 23.9	(2.3)
	Hungary	19.0	(5.8)	36.8	(3.7)	17.8	(6.6)	59	(9.7)	8.6	(2.9)	10	(5.9)	43.4	(2.2)
	Iceland	22.6	(0.2)	m	m	m	m	4	(4.2)	0.0	(0.1)	5	(4.2)	5.2	(0.8)
	Ireland	96.1	(1.4)	95.5 97.5	(1.8)	-0.6 -2.5	(0.8)	14	(20.8)	0.1 1.1	(0.3)	17	(9.8)	15.6 23.7	(1.3)
	Israel Italy	25.7	(15.0)	13.0	(1.5)	-2.5	(1.5)	-12	(14.7)	0.2	(0.8)	-7	(7.9)	24.7	(2.4)
	Japan	m	m	53.6	(3.6)	m	m	-1	(9.0)	0.0	(0.2)	-12	(5.7)	28.5	(2.3)
	Korea	45.5	(11.1)	59.0	(4.1)	13.5 -2.4	(11.4)	15 11	(7.6)	0.6	(0.6)	7 0	(5.2)	17.5	(2.0)
	Latvia Luxembourg	18.8 72.5	(2.1)	16.4 71.0	(4.0)	-2.4 -1.5	(4.1)	-10	(4.4) (2.4)	0.3	(0.2)	-8	(4.0) (2.4)	12.0 34.6	(1.4)
	Mexico	54.3	(6.0)	42.4	(4.4)	-11.9	(7.1)	-4	(6.2)	0.1	(0.3)	-2	(4.6)	17.5	(2.0)
	Netherlands	74.6	(5.1)	62.2	(7.2)	-12.4	(7.4)	-44	(15.9)	3.8	(2.6)	-11	(9.1)	38.8	(4.7)
	New Zealand Norway	89.0 15.7	(4.1)	90.0 m	(2.3) m	1.0 m	(3.4) m	-8	(16.9) (6.1)	0.1	(0.3)	-7	(11.3)	18.9 8.6	(1.9)
	Poland	38.0	(4.0)	m	m	m	m	4	(6.4)	0.0	(0.1)	-2	(4.5)	15.1	(1.6)
	Portugal	14.1	(3.5)	10.7	(2.7)	-3.4	(2.6)	-18	(9.0)	0.4	(0.4)	-3	(5.7)	17.3	(2.2)
	Slovak Republic	31.0	(3.8)	37.9	(4.3)	6.9	(5.6)	21	(9.3)	1.0	(1.0)	4	(5.1)	30.1	(2.4)
	Slovenia Spain	76.6 40.2	(8.7)	32.3 m	(0.1) m	-44.3 m	(8.7) m	24 5	(3.0)	1.5 0.1	(0.4)	-1	(2.7)	35.5 14.3	(1.3)
	Sweden	21.8	(2.8)	3.1	(3.8)	-18.7	(4.8)	3	(8.1)	0.0	(0.1)	2	(5.4)	16.3	(1.7)
	Switzerland	71.0	(3.5)	30.2	(7.2)	-40.9	(7.5)	-54	(8.6)	6.9	(2.2)	-25	(6.7)	25.7	(2.0)
	Turkey	8.8 93.2	(10.7)	31.2 99.8	(3.6)	22.4	(11.2)	25 -46	(12.4) (7.8)	2.1 0.1	(2.1)	8	(10.0)	26.5 19.5	(4.0) (1.8)
	United Kingdom United States	79.6	(4.5)	82.9	(3.2)	6.6 3.3	(3.1)	-2	(11.6)	0.0	(0.0)	-15	(11.6)	14.6	(1.7)
	OECD average	47.0	(1.0)	46.8	(0.9)	-3.6	(1.5)	-4	(1.7)	1.1	(0.2)	-3	(1.1)	22.6	(0.3)
	Albania	23.9	(4.9)	56.0	(5.3)	32.1	(6.9)	m	m	m	m	m	m	m	m
Partners	Algeria	64.1	(4.3)	73.5	(6.5)	9.4	(7.8)	11	(6.2)	0.6	(0.6)	8	(5.6)	9.5	(2.9)
art	Brazil	13.9	(2.9)	9.7	(1.5)	-4.1	(2.7)	3	(12.2)	0.0	(0.2)	6	(7.0)	20.6	(2.1)
_	B-S-J-G (China) Bulgaria	18.8 5.2	(3.5)	67.4 26.8	(6.3)	48.6 21.6	(7.0)	63 11	(12.0) (13.0)	8.4 0.2	(3.1)	23	(8.8)	35.8 39.7	(3.0)
	CABA (Argentina)	34.1	(6.8)	21.7	(11.9)	-12.4	(10.4)	19	(13.3)	1.1	(1.6)	-7	(8.3)	32.2	(3.5)
	Colombia	37.2	(4.0)	37.3	(4.0)	0.1	(2.1)	8	(7.6)	0.2	(0.5)	0	(4.8)	20.0	(2.6)
	Costa Rica	44.0	(4.6)	43.0	(4.6)	-1.0	(3.1)	2	(6.2)	0.0	(0.2)	-7	(3.3)	22.4	(2.1)
	Croatia Cyprus*	32.5	m (1.2)	22.8 26.7	(3.2)	-5.8	(1.2)	13	(10.6)	0.4	(0.7)	5 -7	(6.3)	26.1 17.0	(2.0)
	Dominican Republic	26.8	(8.8)	38.2	(4.9)	11.3	(10.2)	3	(10.0)	0.0	(0.4)	-1	(6.2)	24.0	(3.4)
	FYROM	m	m	42.3	(0.1)	m	m	3	(2.6)	0.0	(0.1)	-5	(2.6)	14.4	(1.2)
	Georgia Hong Kong (China)	8.3 92.9	(2.2)	9.4 89.5	(2.0)	1.1 -3.3	(1.7)	-44	(16.0)	0.0 2.5	(0.2)	-15 -30	(9.2) (9.3)	14.9 13.9	(1.7)
	Indonesia	29.4	(4.6)	47.8	(5.2)	18.3	(7.3)	8	(7.7)	0.3	(0.6)	0	(4.7)	24.1	(3.0)
	Jordan	50.3	(3.7)	m	m	m	m	6	(6.5)	0.2	(0.3)	-2	(5.8)	12.0	(2.2)
	Kosovo Lebanon	45.2 48.2	(4.6)	44.0 30.3	(0.9)	-1.2 -17.8	(4.6)	-4 -12	(3.2)	0.1	(0.1)	-1 -19	(3.1)	12.2 20.2	(1.5)
	Lithuania	51.0	(2.8)	m	m	m	(0.0) m	22	(5.9)	1.5	(0.8)	8	(4.7)	21.5	(2.3)
	Macao (China)	50.2	(0.2)	52.1	(0.1)	2.0	(0.2)	1	(1.7)	0.0	(0.0)	-3	(1.8)	2.2	(0.5)
	Malta Moldova	6.3	m (1.6)	75.5 2.5	(0.1)	-3.8	m (1.4)	-44 11	(3.7) (12.3)	2.7 0.1	(0.5)	-3 -3	(4.1) (9.9)	25.4 14.1	(1.2)
	Montenegro	65.5	(1.0)	47.1	(0.1)	-18.4	(19.4)	3	(2.2)	0.0	(0.1)	-2	(2.2)	17.2	(0.9)
	Peru	24.8	(3.5)	25.1	(3.0)	0.3	(2.7)	0	(7.0)	0.0	(0.1)	-6	(3.4)	29.6	(2.2)
	Qatar Romania	69.6 46.2	(0.3)	63.3 m	(0.1)	-6.3 m	(0.4) m	-13 19	(1.8)	0.4 1.4	(0.1)	-4 6	(1.8) (5.3)	13.9 23.5	(0.6)
	Russia	29.2	(3.8)	25.4	m (5.0)	-3.9	(4.3)	28	(6.2)	2.3	(1.0)	13	(5.3)	10.3	(1.8)
	Singapore	93.1	(2.5)	93.6	(0.7)	0.5	(2.3)	-21	(5.9)	0.3	(0.1)	14	(12.0)	26.2	(1.5)
	Chinese Taipei	16.8	(2.9)	34.2	(4.0)	17.4	(4.5)	-5	(8.6)	0.1	(0.2)	-12	(5.2)	28.9	(2.5)
	Thailand Trinidad and Tobago	71.6 62.1	(3.8)	77.8 67.3	(3.9)	6.2 5.2	(4.5)	19 1	(8.4)	1.1	(1.0)	7 12	(6.2) (2.9)	18.4 36.3	(3.2)
	Tunisia	75.5	(6.2)	53.3	(5.1)	-22.2	(7.9)	-25	(6.7)	3.6	(1.9)	-20	(5.2)	21.0	(3.9)
	United Arab Emirates	48.6	(4.4)	41.6	(2.3)	-7.0	(4.4)	6	(7.6)	0.1	(0.3)	-9	(6.6)	13.7	(1.8)
	Uruguay Viet Nam	14.6 61.0	(3.2) (11.2)	15.9 84.6	(3.2)	1.3 23.6	(4.0) (11.4)	15 49	(12.8) (7.9)	0.4 5.9	(0.7) (1.9)	-6 29	(7.3) (7.5)	26.3 21.8	(1.9) (4.3)
	Argentina**	24.3	(3.5)	23.3	(4.0)	-1.0	(3.9)	-2	(8.6)	0.0	(0.2)	-2	(4.8)	19.1	(2.2)
	Kazakhstan**	52.2	(4.2)	51.3	(4.6)	-0.9	(3.8)	12	(7.5)	0.6	(0.8)	5	(6.1)	8.8	(2.4)
	Malaysia**	87.6	(7.9)	89.5	(2.4)	1.9	(7.5)	-4	(11.0)	0.0	(0.2)	-6	(8.0)	18.3	(2.5)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Notes: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/1]

Table II.5.27 Selecting students for different programmes (2015)

		Source	Number of school types or distinct education programmes available to 15-year-old students	First age at selection in the education system
6	Australia	a	1	16
	Austria	a	4	10
	Belgium	a	4	12
	Canada	a	1	16
	Chile ¹	а	3	16
	Czech Republic	a	6	11
	Denmark	а	1	16
	Estonia	a	1	16
	Finland France	a	3	16 15
	Germany	a	4	10
	Greece	a	2	15
	Hungary	a	3	11
	Iceland (a	1	16
	Ireland	а	4	15
	Israel	a	2	15
	Italy	а	4	14
	Japan	а	2	15
	Korea	а	3	15
	Latvia	a	5	16
	Luxembourg Mexico	a	4 3	13 15
	Metherlands	a	3 7	15
	New Zealand	a	1	16
	Norway	a	1	16
	Poland [°]	a	1	16
	Portugal	a	3	15
	Slovak Republic	a	5	11
	Slovenia	a	3	14
	Spain	a	1	16
	Sweden	a	1	16
	Switzerland	a	4	12
	Turkey	a	3	11 16
	United Kingdom ² United States	a	1	16
	OECD average	а	2.7	14.3
	OLCD average		2.7	7.5
				4.5
ers	Albania	a	3	15
rtners	Algeria	b	m	m
artne	Algeria Argentina	b b	m 3	m 14
	Algeria Argentina Brazil	b b a	m 3 2	m 14 15
	Algeria Argentina Brazil B-S-J-G (China)	b b a b	m 3 2 4	m 14 15 15
	Algeria Argentina Brazil B-S-J-G (China) Bulgaria³ Colombia	b b a	m 3 2	m 14 15
	Algeria Argentina Brazil B-S-J-G (China) Bulgaria³ Colombia Costa Rica	b b a b b	m 3 2 4 3 2 3	m 14 15 15 13 15
	Algeria Argentina Brazil B-S-J-G (China) Bulgaria³ Colombia Costa Rica Croatia	b b a b b a b b a b b	m 3 2 4 3 2 3 1	m 14 15 15 13 15 15
	Algeria Argentina Brazil B-S-J-G (China) Bulgaria³ Colombia Costa Rica Croatia Cyprus*	b b a b b a b b b a b b b b	m 3 2 4 3 2 3 1 1 2	m 14 15 15 13 15 15 14
	Algeria Argentina Brazil B-S-J-G (China) Bulgaria [†] Colombia Costa Rica Croatia Cyprus* Dominican Republic ⁴	b b a b b a b b b b b b b b	m 3 2 4 3 2 3 1 2 3 3	m 14 15 15 13 15 15 14 14
	Algeria Argentina Brazil B-S-J-G (China) Bulgaria [†] Colombia Costa Rica Croatia Cyprus [*] Dominican Republic ⁴ FYROM	b b a b b a b b b b b b b b b	m 3 2 4 3 2 3 1 2 3 5	m 14 15 15 13 15 15 14 14 15
	Algeria Argentina Brazil B-S-J-G (China) Bulgaria ³ Colombia Costa Rica Croatia Cyprus* Dominican Republic ⁴ FYROM Georgia	b b a b b a b b b b b b b b b b	m 3 2 4 3 2 3 1 2 3 5 2 2	m 14 15 15 13 15 15 14 15 16 16
	Algeria Argentina Brazil B-S-J-G (China) Bulgaria ¹ Colombia Costa Rica Croatia Cyprus* Dominican Republic ⁴ FYROM Georgia Hong Kong (China)	b b a b b a b b b b b b b b b b	m 3 2 4 3 2 3 1 2 3 5 5 2 5	m 14 15 15 15 13 15 15 14 15 16 16 15 15
	Algeria Argentina Brazil B-S-J-G (China) Bulgaria ³ Colombia Costa Rica Croatia Cyprus* Dominican Republic ⁴ FYROM Georgia	b b a b b a b b b b b b b a	m 3 2 4 3 2 3 1 2 3 5 2 2	m 14 15 15 15 13 15 15 15 16 16 15 15 15
	Algeria Argentina Brazil B-S-J-G (China) Bulgaria [†] Colombia Costa Rica Croatia Cyprus* Dominican Republic [†] FYROM Georgia Hong Kong (China)	b b a b b a b b b b b b b b b b	m 3 2 4 3 2 3 1 2 3 5 2 3 1 1 2 3 5 1 1 1	m 14 15 15 15 13 15 15 14 15 16 16 15 15
	Algeria Argentina Brazil B-S-J-G (China) Bulgaria ¹ Colombia Costa Rica Croatia Cyprus* Dominican Republic ¹ FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan	b b a b b b b b b b b b b b b b b b b b	m 3 2 4 4 3 2 3 1 2 3 5 2 5 1 1 1	m 14 15 15 15 13 15 15 15 16 15 15 16 15 15 16 15 16 15 16
	Algeria Argentina Brazil B-S-J-G (China) Bulgaria³ Costa Rica Croatia Cyprus* Dominican Republic⁴ FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan Kosovo Lebanon	b b a b b b b b a a a b b b b b b b b b	m 3 2 4 3 2 3 1 2 3 5 2 5 1 1 8 m m	m 14 15 15 15 13 15 15 15 16 15 15 15 16 15 15 16 15 15 16 16 15
	Algeria Argentina Brazil B-S-J-G (China) Bulgaria Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan Kosovo Lebanon Lithuania	b b b b b b b b b b b b b b b b b b b	m 3 2 4 3 2 3 1 2 3 5 1 2 3 5 1 1 8 m m 5	m 14 15 15 15 13 15 15 15 16 16 15 15 15 16 15 15 16 15 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18
	Algeria Argentina Brazil B-S-J-G (China) Bulgaria Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan Kosovo Lebanon Lithuania Macao (China)	b b a b b b b b b b b b b b b b b b b b	m 3 2 4 3 2 3 1 2 3 5 1 1 2 3 5 1 1 1 8 m m m 5 2	m 14 15 15 15 13 15 15 15 16 16 15 15 16 15 16 15 15 15 15 16 15 15 16 16 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18
	Algeria Argentina Brazil B-S-J-G (China) Bulgaria³ Costa Rica Croatia Cyprus* Dominican Republic⁴ FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan Kosovo Lebanon Lithuania Macao (China) Malaysia	b b b b b b b b b b b b b b b b b b b	m 3 2 4 3 2 3 1 2 3 1 2 3 5 1 1 2 3 5 1 1 8 m m m 5 2 5 1 1 8 m m 5 2 5 1 1 8 m m 5 5 2 5 5	m 14 15 15 15 13 15 15 15 16 16 15 15 15 16 15 16 15 16 16 15 16 16 15 16 16 15 16 16 15 16
	Algeria Argentina Brazil B-S-J-G (China) Bulgaria ³ Colombia Costa Rica Croatia Cyprus* Dominican Republic ⁴ FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan Kosovo Lebanon Lithuania Macao (China) Malaysia Malta ⁵	b b a b b a b b b b b b b b b a a b b b b a a b b b b b	m 3 2 4 3 2 3 1 2 3 1 2 3 5 1 1 8 m m m 5 2 5 3 3	m 14 15 15 15 13 15 15 15 16 15 15 15 16 15 15 16 15 16 15 16 15 16 15 16 15 16 15 16
	Algeria Argentina Brazil B-S-J-G (China) Bulgaria¹ Colombia Costa Rica Croatia Cyprus* Dominican Republic⁴ FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan Kosovo Lebanon Lithuania Macao (China) Malaysia Malta⁵ Moldova	b b a b b b b b b b b b b b b b b b b b	m 3 2 4 3 2 3 1 2 3 5 1 1 2 3 5 1 1 8 m m m 5 2 5 1 1 1 8 m m m m s 5 2 5 1 1 8 m m	m 14 15 15 15 13 15 15 15 16 16 15 15 15 16 15 15 15 16 15 15 16 15 16 15 16 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18
	Algeria Argentina Brazil Br-S-J-G (China) Bulgaria³ Colombia Costa Rica Croatia Cyprus* Dominican Republic⁴ FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan Kosovo Lebanon Lithuania Macao (China) Malaysia Malta⁵ Moldova Montenegro	b b b a b b b b b b b b b b b b b b b b	m 3 2 4 4 3 2 3 1 1 2 3 5 2 5 1 1 1 8 m m m 5 2 5 2 5 3 m 4 4	m 14 15 15 15 13 15 15 15 16 15 15 15 16 15 15 16 16 15 16 15 16 16 15 16 16 15 16 16 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18
	Algeria Argentina Brazil B-S-J-G (China) Bulgaria ³ Colombia Costa Rica Croatia Cyprus* Dominican Republic ⁴ FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan Kosovo Lebanon Lithuania Macao (China) Malaysia Malta ³ Moldova Montenegro Peru	b b b a b b b b b b b b b b b b b b b b	m 3 2 4 4 3 2 3 1 1 2 3 5 2 5 1 1 1 8 m m m 5 2 5 2 5 3 m 4 4	m 14 15 15 15 13 15 15 15 16 16 15 15 16 15 16 15 16 15 16 17 18 18 18 19 19 10 11 11 11 11 11 11 11 11 11 11 11 11
	Algeria Argentina Brazil Br-S-J-G (China) Bulgaria³ Costa Rica Croatia Cyprus* Dominican Republic⁴ FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan Kosovo Lebanon Lithuania Macao (China) Malaysia Moldova Montenegro Peru Qatar	b b a b b b b b b b b b b b b b b b b b	m 3 2 4 4 3 3 2 3 1 1 2 3 5 5 2 5 1 1 1 8 m m m 5 2 5 3 m 4 3 3 3	m 14 15 15 15 13 15 15 15 16 16 15 15 16 15 15 16 15 15 16 16 15 16 15 16 16 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18
	Algeria Argentina Brazil Br-S-J-G (China) Bulgaria ² Colombia Costa Rica Croatia Cyprus* Dominican Republic ⁴ FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan Kosovo Lebanon Lithuania Macao (China) Malaysia Malta ⁵ Moldova Montenegro Peru Qatar Romania Russia ⁶	b b b a b b b b b b b b b b b b b b b b	m 3 2 4 4 3 2 3 1 1 2 3 5 2 5 1 1 1 8 m m m 5 2 5 2 5 3 m 4 4	m 14 15 15 15 13 15 15 15 16 16 15 15 16 15 16 15 16 15 16 15 16 17 18 18 18 19 19 10 11 11 11 11 11 11 11 11 11 11 11 11
	Algeria Argentina Brazil Br-S-J-G (China) Bulgaria ² Colombia Costa Rica Croatia Cyprus* Dominican Republic ⁴ FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan Kosovo Lebanon Lithuania Macao (China) Malaysia Malta ⁵ Moldova Montenegro Peru Qatar Romania Russia ⁶	b b b a b b b b b b b b b b b b b b b b	m 3 2 4 4 3 3 2 3 1 1 2 3 5 2 5 1 1 1 8 m m m 5 2 5 2 5 1 1 4 3 3 3 4 4	m 14 15 15 15 15 13 15 15 15 14 15 16 15 15 16 16 15 16 16 15 16 16 15 16 16 17 18 18 19 19 10 10 11 11 11 11 11 11 11 11 11 11 11
	Algeria Argentina Brazil Br-S-J-G (China) Bulgaria ² Colombia Costa Rica Croatia Cyprus* Dominican Republic ⁴ FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan Kosovo Lebanon Lithuania Macao (China) Malaysia Malta ⁵ Moldova Montenegro Peru Qatar Romania Russia ⁶	b b b a b b b b b b b b b b b b b b b b	m 3 2 4 3 3 2 3 1 1 2 3 3 5 2 5 1 1 1 8 m m 5 2 5 3 m 4 3 3 2 3 4 3	m 14 15 15 15 15 13 15 15 15 16 16 15 15 16 16 15 16 15 16 16 15 16 16 15 16 16 15 16 16 17 18 18 18 19 19 10 10 11 11 11 11 11 11 11 11 11 11 11
	Algeria Argentina Brazil B-S-J-G (China) Bulgaria ³ Colombia Costa Rica Croatia Cyprus* Dominican Republic ⁴ FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan Kosovo Lebanon Lithuania Macao (China) Malaysia Malta ⁵ Moldova Montenegro Peru Qatar Romania Russia ⁶ Singapore Chinese Taipei Thailand	b b b a b b b b b b b b b b b b b b b b	m 3 2 4 4 3 2 3 1 2 3 1 2 3 5 1 1 2 5 1 1 8 m m m 5 2 5 3 m 4 3 3 2 2 3 4 3 3 2 2 3 4 3 3 2 2	m 14 15 15 15 15 13 15 15 15 16 16 15 15 16 16 15 16 16 15 16 16 15 16 16 16 17 18 18 19 19 10 10 11 11 11 11 11 11 11 11 11 11 11
	Algeria Argentina Brazil Br-S-J-G (China) Bulgaria³ Costa Rica Costa Rica Croatia Cyprus* Dominican Republic⁴ FYROM Georgia Hong Kong (China) Indonesia Iordan Kazakhstan Kosovo Lebanon Lithuania Macao (China) Malaysia Malta⁵ Moldova Montenegro Peru Qatar Romania Russia° Singapore Chinese Taipei Thailand Trinidad and Tobago	b b b b b b b b b b b b b b b b b b b	m 3 2 4 4 3 3 2 3 1 1 2 3 5 2 5 1 1 1 8 m m m 5 2 5 3 m 4 3 3 3 2 3 4 3 3 2 m	m 14 15 15 15 15 13 15 15 15 14 15 16 15 15 16 16 15 16 15 16 16 15 16 16 15 16 16 17 18 18 19 19 10 11 11 11 11 11 11 11 11 11 11 11 11
	Algeria Argentina Brazil B-S-J-G (China) Bulgaria³ Costa Rica Croatia Cyprus* Dominican Republic⁴ FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan Kosovo Lebanon Lithuania Macao (China) Malaysia Malta³ Moldova Montenegro Peru Qatar Romania Russia⁴ Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	b b b a b b b b b b b b b b b b b b b b	m 3 2 4 4 3 3 2 3 1 1 2 3 3 5 5 2 5 1 1 1 8 m m m 5 5 2 5 3 m 4 3 3 2 3 2 3 4 3 3 2 m m m m m m m m m m m m m m m m m	m 14 15 15 15 15 13 15 15 15 16 16 15 15 16 16 15 16 16 15 16 16 15 16 16 17 18 18 19 19 10 10 11 11 11 11 11 11 11 11 11 11 11
	Algeria Argentina Brazil B-S-J-G (China) Bulgaria¹ Colombia Costa Rica Croatia Cyprus* Dominican Republic⁴ FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan Kosovo Lebanon Lithuania Macao (China) Malaysia Malta³ Moldova Montenegro Peru Qatar Romania Russia⁴ Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	b b b a b b b b b b b b b b b b b b b b	m 3 2 4 3 2 4 3 3 2 3 1 2 3 5 5 2 5 1 1 8 m m 5 2 5 3 m 4 3 3 2 3 4 4 3 3 2 m m 5 5	m 14 15 15 15 15 13 15 15 15 16 16 15 15 16 16 15 16 16 15 16 16 15 16 16 16 17 18 18 19 19 10 10 11 11 11 11 11 11 11 11 11 11 11
	Algeria Argentina Brazil B-S-J-G (China) Bulgaria³ Costa Rica Croatia Cyprus* Dominican Republic⁴ FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan Kosovo Lebanon Lithuania Macao (China) Malaysia Malta³ Moldova Montenegro Peru Qatar Romania Russia⁴ Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	b b b a b b b b b b b b b b b b b b b b	m 3 2 4 4 3 3 2 3 1 1 2 3 3 5 5 2 5 1 1 1 8 m m m 5 5 2 5 3 m 4 3 3 2 3 2 3 4 3 3 2 m m m m m m m m m m m m m m m m m	m 14 15 15 15 15 13 15 15 15 16 16 15 15 16 16 15 16 16 15 16 16 15 16 16 17 18 18 19 19 10 10 11 11 11 11 11 11 11 11 11 11 11

^{1.} Fifteen-year-old students can be enrolled in three types of school according to the study programme they offer: only general studies, only vocational studies, or both. At the modal grade for 15-year-olds (grade 10), a common curriculum or education programme is offered in these three types of school. Vocational studies begin only at grade 11.

2. Although only one programme is available to 15-year-old students (ISCED 3) in the United Kingdom, there are four distinct education programmes, one in each country. Students work towards a General Certificate of Secondary Education (Key Stage 4) in England, Wales and Northern Ireland; students in Scotland work towards Standard Grades (National 5). Each of these four programmes provides general education, but vocational qualifications/modules are also available.

3. Starting age at some vocational schools is 14. Admission to profile high schools is at grade 7 (i.e. upper secondary stage).

4. Reference year 2015/16.

5. The number of programmes listed include general and vocational (post-compulsory) education, available to 16-year-old students. The great majority of 15-year-old students are enrolled in a general education programme (compulsory).

6. According to a new classification introduced by law in 2013, there are two types of education programmes in the country: general education and professional education (which include vocational first-stage and vocational second-stage programmes). Students after grade 9 (15.5 years of age) may choose between the following programmes: upper secondary general, vocational first stage or vocational second stage. They may also enter the short track in the vocational second stage after completion of the first stage.

*See note at the beginning of this Annex.

*Sources: a) OECD (2013), PISA 2012 Results: What Makes Schools Successful, Table IV.2.5.

b) PISA system-level data collection in 2016.

*StatLink** http://dx.doi.org/10.1787/888993436509



[Part 1/2]

Table II.6.1 Shortage of educational material

Results base	ed OII scrio	 		-	students	in schools	s whose p	rincipal r	eported t	hat the so	chool's ca	oacity to	provide i	struction	ı is hinder	ed by	
			A lack of e	education	al materia	l (e.g. text	books, IT			1	adequate	or poor q	uality edu	cational n	naterial (e.	g. textboo	oks,
		Mot	at all	1	ry or labo	_ <i>`</i>		Α.	lot	Not					tory mater	T	lot
		%	at all S.E.	%	little S.E.	%	S.E.	%	S.E.	%	at all	%	little S.E.	%	s.E.	%	lot S.E.
Australia		61.0	(2.0)	28.1	(2.0)	10.1	(1.2)	0.8	(0.4)	62.1	(2.1)	27.7	(2.0)	9.6	(1.1)	0.6	(0.3)
Australia Austria Belgium		38.1	(3.4)	36.1	(3.3)	20.3	(3.0)	5.4	(1.9)	42.4	(3.5)	37.1	(3.2)	16.1	(2.7)	4.4	(1.7)
		30.9 44.5	(2.8)	37.1 39.0	(3.1)	27.0	(2.7)	5.0	(1.5)	34.6 46.5	(3.0)	44.9 40.4	(2.9)	16.7 12.1	(2.1)	3.8 1.0	(1.3)
Canada Chile		46.0	(3.8)	37.6	(4.1)	14.8 15.1	(1.9)	1.8 1.4	(0.8)	49.5	(3.0)	36.6	(2.7)	12.1	(2.6)	1.7	(0.6)
Czech Re	public	25.0	(2.6)	46.4	(3.1)	25.9	(2.6)	2.7	(1.0)	28.5	(2.9)	48.9	(3.0)	20.7	(2.2)	1.8	(0.6)
Denmark		44.1	(3.4)	36.9	(3.7)	16.6	(2.5)	2.5	(1.3)	42.5	(3.4)	40.8	(3.4)	14.3	(1.9)	2.5	(1.3)
Estonia Finland		16.6 18.5	(1.9) (2.9)	34.9 40.3	(2.9)	41.8 38.7	(2.9)	6.6 2.5	(1.5)	20.4 17.5	(1.9)	40.1 42.6	(2.8)	36.4 37.2	(2.7)	3.1 2.6	(1.2)
France		44.0	(3.3)	28.7	(3.7)	24.4	(4.1)	2.8	(1.3)	44.4	(3.7)	36.3	(3.6)	17.7	(3.8)	1.6	(0.8)
Germany		28.6	(3.7)	35.4	(3.7)	27.6	(3.2)	8.3	(2.3)	26.5	(3.3)	38.8	(3.7)	29.6	(3.4)	5.1	(1.8)
Greece		13.4	(2.4)	32.7	(3.6)	37.3	(3.7)	16.6	(3.1)	15.2	(2.6)	35.8	(3.5)	35.8	(3.4)	13.2	(2.4)
Hungary Iceland		6.9 31.0	(1.3)	22.1 31.5	(2.7)	49.8 30.2	(3.4)	7.3	(2.6)	6.7 28.4	(1.3)	32.3 40.1	(3.1)	41.9 27.8	(3.4)	19.2 3.7	(2.6)
Ireland		39.3	(4.2)	25.0	(3.6)	25.5	(3.8)	10.2	(2.4)	34.9	(3.5)	33.7	(4.2)	23.7	(3.5)	7.6	(2.2)
Israel		26.4	(3.3)	36.2	(3.9)	23.4	(3.7)	14.0	(3.0)	32.9	(3.4)	34.6	(3.3)	23.7	(3.0)	8.8	(2.7)
Italy		25.5	(3.1)	32.4	(3.0)	37.8	(3.1)	4.3	(1.5)	23.1	(2.9)	39.2	(3.4)	31.6	(3.6)	6.1	(1.8)
Japan Korea		5.7 14.7	(1.6)	29.0 35.0	(3.5)	50.4 44.5	(3.9)	14.9 5.8	(2.5)	7.6 13.9	(1.8)	35.7 42.6	(4.0)	46.9 35.1	(3.6)	9.8 8.4	(2.0)
Latvia		22.6	(2.8)	41.3	(3.0)	32.3	(2.7)	3.8	(1.1)	25.7	(2.6)	49.0	(3.1)	23.0	(2.7)	2.2	(0.8)
Luxembou	ırg	40.3	(0.1)	56.4	(0.1)	3.3	(0.0)	0.0	С	47.6	(0.1)	46.0	(0.1)	6.5	(0.0)	0.0	С
Mexico		18.4	(2.4)	22.4	(2.9)	35.0	(3.5)	24.2	(2.9)	23.6	(2.4)	30.8	(3.5)	30.0	(2.9)	15.5	(2.3)
Netherlar New Zeal		33.8 44.5	(3.7)	36.2 42.7	(4.7) (4.4)	27.3 12.5	(4.3)	2.7 0.3	(1.4)	35.9 48.8	(4.1)	41.9 40.2	(4.5)	20.4	(3.6)	1.9 0.9	(1.2)
Norway	anu	20.8	(3.0)	43.6	(3.4)	32.7	(3.1)	2.9	(1.3)	13.9	(2.3)	49.4	(3.5)	32.4	(3.5)	4.4	(1.6)
Poland		41.1	(4.2)	25.8	(3.7)	30.6	(3.9)	2.5	(1.2)	30.5	(4.1)	34.5	(4.4)	30.1	(4.0)	4.9	(1.7)
Portugal		30.0	(3.4)	45.2	(3.8)	20.5	(3.1)	4.2	(1.5)	27.1	(3.2)	53.7	(3.7)	15.2	(2.7)	3.9	(1.5)
Slovak Re Slovenia	public	18.9 43.4	(2.7)	27.9 32.8	(2.7)	43.1	(3.2)	10.1	(1.9)	14.7 41.3	(2.2)	32.1 33.0	(3.1)	46.4 24.0	(3.4)	6.7 1.8	(1.5)
Spain		26.9	(3.0)	26.7	(2.8)	33.4	(3.1)	13.0	(2.5)	27.6	(2.9)	29.4	(3.3)	32.8	(3.4)	10.2	(2.2)
Sweden		40.8	(3.2)	38.8	(3.1)	19.0	(2.7)	1.4	(1.0)	38.3	(3.5)	38.0	(3.2)	21.3	(3.0)	2.5	(1.2)
Switzerla	nd	55.4	(3.9)	28.2	(3.7)	15.6	(2.5)	0.8	(0.6)	52.7	(4.1)	31.9	(3.8)	14.9	(2.5)	0.5	(0.5)
Turkey United Ki	nadom	26.5 35.6	(3.5)	24.4 35.3	(3.6)	33.3 25.4	(4.0)	15.8 3.7	(3.0)	27.4 37.6	(4.0)	27.0 36.7	(3.5)	30.0	(3.4)	15.6 3.6	(3.0)
United St		40.7	(3.8)	41.7	(3.8)	14.6	(2.9)	3.0	(1.3)	43.1	(3.9)	40.0	(3.7)	14.0	(2.7)	2.9	(1.3)
OECD ave	erage	31.4	(0.5)	34.7	(0.6)	27.5	(0.5)	6.4	(0.3)	31.8	(0.5)	38.3	(0.6)	24.6	(0.5)	5.2	(0.3)
_ε Albania		15.1	(2.7)	13.2	(2.3)	53.5	(3.7)	18.2	(3.0)	17.1	(2.8)	23.3	(3.1)	48.7	(4.0)	11.0	(2.6)
Algeria		49.2	(4.1)	24.8	(4.0)	16.2	(3.3)	9.9	(2.5)	52.2	(4.4)	26.1	(3.9)	12.2	(3.0)	9.4	(2.6)
Brazil		40.4	(2.6)	30.3	(2.2)	22.1	(2.3)	7.1	(1.0)	47.6	(2.6)	29.5	(2.3)	17.8	(2.1)	5.1	(1.0)
B-S-J-G (C	China)	27.8	(3.3)	27.3	(3.6)	26.9	(3.4)	17.9	(3.0)	27.8	(3.3)	29.3	(4.2)	26.8	(3.4)	16.2	(3.3)
Bulgaria CABA (Ar	gentina)	40.9 51.6	(3.5) (6.3)	25.8 24.0	(3.4) (4.6)	27.0	(3.8) (5.7)	6.3 3.9	(2.0)	44.1 58.6	(3.5) (7.0)	35.1 23.0	(3.7) (4.9)	16.2 13.6	(3.1) (4.9)	4.6 4.8	(1.5)
Colombia		17.2	(2.5)	22.4	(3.2)	34.4	(3.4)	25.9	(2.8)	30.7	(3.0)	23.9	(2.8)	29.2	(2.9)	16.2	(2.9)
Costa Ric	a	14.0	(1.8)	17.1	(2.6)	31.2	(3.2)	37.8	(2.8)	18.5	(2.3)	22.0	(2.8)	30.7	(3.6)	28.7	(3.2)
Croatia		11.4	(2.7)	21.5	(3.2)	43.0	(3.6)	24.1	(3.4)	11.4	(2.7)	23.7	(3.4)	49.2	(4.1)	15.7	(3.3)
Cyprus*	n Republic	24.7 18.6	(0.1)	42.7 25.0	(0.1)	24.1 33.3	(0.1)	8.6 23.0	(0.1)	26.5 23.7	(0.1)	50.9 27.1	(0.1)	14.1 34.5	(0.1)	8.5 14.7	(0.1)
FYROM	периопе	20.5	(0.2)	21.2	(0.1)	52.6	(0.2)	5.7	(0.1)	18.6	(0.2)	39.5	(0.2)	33.5	(0.2)	8.4	(0.1)
Georgia		36.4	(3.0)	29.0	(2.6)	26.1	(2.8)	8.6	(1.6)	28.3	(2.9)	32.1	(2.9)	34.5	(3.5)	5.1	(1.3)
Hong Kor Indonesia		40.1 11.6	(4.2)	45.1 19.7	(4.3)	14.1 35.9	(3.0)	0.7 32.8	(0.7)	37.7 9.2	(4.1) (1.9)	42.4 28.2	(4.0)	20.0 37.6	(3.6)	0.0 25.0	(3.0)
Jordan		27.0	(3.0)	28.0	(3.4)	19.1	(3.9)	25.9	(3.3)	23.4	(3.0)	30.6	(3.1)	27.4	(3.8)	18.6	(2.8)
Kosovo		5.4	(0.6)	8.9	(1.1)	42.7	(1.3)	43.0	(1.2)	6.5	(0.9)	21.4	(1.5)	48.7	(1.4)	23.4	(1.0)
Lebanon		36.8	(3.1)	27.5	(3.3)	23.1	(3.1)	12.6	(1.9)	40.4	(3.2)	23.0	(2.4)	27.6	(2.9)	9.0	(2.2)
Lithuania Macao (C	hina)	17.1 42.4	(2.3)	28.0 29.8	(2.3)	42.9 19.9	(2.8)	12.0 7.9	(1.6)	17.2 34.0	(2.0)	30.0 34.6	(2.7)	45.2 20.7	(3.0)	7.6 10.7	(1.6)
Malta	u	65.0	(0.1)	27.7	(0.1)	7.3	(0.1)	0.0	(0.0) C	68.9	(0.1)	17.5	(0.1)	8.2	(0.1)	5.4	(0.0)
Moldova		7.4	(2.0)	15.3	(2.4)	64.2	(3.5)	13.2	(2.0)	10.0	(2.1)	22.9	(2.8)	56.8	(3.4)	10.4	(2.3)
Monteneg	gro	8.2	(0.4)	32.2	(0.3)	45.5	(0.4)	14.0	(0.1)	8.4	(0.4)	34.2	(0.5)	44.3	(0.3)	13.0	(0.1)
Peru Qatar		14.6 81.3	(1.7)	18.5 7.3	(2.5)	33.9 9.8	(2.9)	33.0 1.6	(2.8)	16.3 84.2	(2.3)	26.2 6.9	(3.1)	31.2 6.9	(3.1)	26.4	(2.7)
Romania		22.9	(3.6)	31.3	(3.9)	40.9	(4.0)	5.0	(1.7)	15.0	(3.1)	35.7	(4.1)	44.9	(4.1)	4.4	(1.5)
Russia		22.5	(3.7)	26.2	(2.9)	33.4	(3.4)	17.8	(3.0)	21.7	(3.8)	31.5	(3.2)	32.2	(3.9)	14.6	(2.8)
Singapore Chinese Ta		85.4	(1.1)	14.6	(1.1)	0.0	(2 E)	0.0	(O 4)	84.8	(0.8)	15.2	(0.8)	0.0	(2.2)	0.0	С
Thailand	aipei	37.8 18.3	(3.7) (2.9)	47.6 26.2	(3.7)	13.9 38.7	(2.5)	0.7 16.8	(0.4)	35.6 21.5	(3.6)	52.8 31.7	(3.8)	11.6 35.5	(2.3)	11.3	(2.1)
	ınd Tobago	14.0	(0.2)	36.0	(0.3)	37.1	(0.3)	12.8	(0.2)	14.8	(0.2)	39.2	(0.3)	32.4	(0.3)	13.6	(0.2)
Tunisia		3.3	(1.5)	8.8	(2.4)	43.9	(4.4)	43.9	(4.3)	8.1	(2.4)	8.4	(2.5)	52.8	(4.2)	30.6	(4.1)
United Ar Uruguay	ab Emirates	49.7 36.4	(2.8)	20.9 35.1	(2.5)	13.8	(1.7)	15.6 4.9	(2.0)	51.3 38.8	(2.7)	23.0 31.6	(2.4)	14.3 23.4	(1.5)	11.4 6.3	(1.9)
Viet Nam		28.6	(3.0)	24.7	(3.4)	34.5	(4.0)	12.3	(2.7)	25.9	(3.1)	31.6	(2.6)	30.9	(4.1)	10.5	(2.2)
Argentina		36.3	(3.3)	28.1	(3.5)	23.9	(3.3)	11.7	(2.4)	49.3	(3.8)	20.5	(2.9)	22.7	(3.0)	7.5	(2.1)
Kazakhsta		27.3	(3.2)	24.7	(3.3)	40.9	(4.0)	7.0	(2.4)	19.0	(3.0)	26.1	(3.0)	47.2	(3.7)	7.6	(1.9)
Malaysia*		38.0	(3.6)	42.8	(3.7)	17.2	(3.0)	1.9	(1.1)	32.5	(3.8)	41.3	(4.0)	24.9	(3.7)	1.3	(0.9)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 2/2]

Table II.6.1 Shortage of educational material

		Perce	entage of	students	in schools	whose n	rincinal r	enorted t	hat the sc	hool's car	nacity to	nrovide i	etruction	is hinder	red by	
	A lack	of physica							1			-		ture (e.g. l		rounds
			light	ing and a	oustic sys	tems)				hea	ting/cooli	ng, lightir	ng and acc	oustic syste	ems)	
	Not	at all	Very %	little S.E.	To som	e extent S.E.	%	S.E.	Not %	at all S.E.	Very %	little S.E.	To som	s.E.	%	lot S.E
Australia	42.8	(1.9)	33.0	(1.9)	20.6	(1.6)	3.6	(0.8)	44.0	(2.1)	30.7	(2.0)	20.7	(1.7)	4.7	(0.9
Austria Austria Relgium	49.1	(3.5)	25.2	(3.1)	19.2	(2.5)	6.5	(1.8)	45.7	(3.2)	28.4	(3.0)	20.5	(2.6)	5.4	(1.5
Deigiani	24.9	(3.1)	30.6	(2.8)	32.8	(2.9)	11.7	(2.0)	25.0	(3.0)	32.7	(3.1)	30.4	(2.8)	11.9	(2.1
Canada	50.6	(3.1)	32.5	(2.6)	14.0	(1.7)	2.8	(0.9)	51.1	(3.1)	31.3	(2.8)	15.1	(1.9)	2.5	(1.0
Chile Czech Republic	43.0 38.8	(3.7)	33.7	(4.0)	16.4 22.9	(3.0)	6.9 7.0	(2.1)	43.1	(3.9)	34.3 38.6	(4.3)	16.5 23.7	(3.2)	6.0 4.6	(2.2
Denmark	42.7	(3.1)	31.3 29.8	(3.2)	20.7	(3.0)	6.8	(1.7)	33.1 39.2	(3.8)	33.8	(2.8)	20.0	(2.8)	7.0	(1.9
Estonia	33.4	(2.5)	32.7	(2.6)	27.4	(2.1)	6.6	(1.4)	28.5	(2.4)	34.6	(2.7)	28.9	(2.3)	7.9	(1.6
Finland	30.4	(3.5)	31.3	(3.6)	29.8	(3.7)	8.4	(2.2)	26.2	(3.1)	32.4	(3.5)	31.3	(3.8)	10.1	(2.4
France	36.8	(3.2)	30.7	(3.4)	24.7	(2.7)	7.9	(1.9)	37.8	(3.6)	33.3	(3.0)	19.0	(2.8)	10.0	(2.3
Germany	33.3	(3.5)	27.5	(3.5)	29.3	(3.1)	9.9	(2.2)	29.7	(3.2)	30.4	(3.0)	30.4	(3.7)	9.4	(2.0
Greece	21.9	(3.2)	33.2	(3.8)	26.3	(3.8)	18.7	(3.1)	25.2	(3.1)	36.2	(3.6)	21.9	(3.1)	16.6	(2.6
Hungary Iceland	17.1 52.9	(2.6)	30.5	(3.3)	35.3 17.0	(3.2)	17.1 0.2	(2.4)	22.9 56.3	(2.7)	33.2 25.4	(3.1)	28.7 16.8	(3.0)	15.1	(2.4
Ireland	33.3	(3.7)	13.6	(2.9)	30.5	(3.5)	22.6	(3.2)	31.8	(3.6)	22.9	(3.4)	24.5	(3.2)	20.8	(3.0
Israel	19.8	(3.3)	21.9	(3.1)	33.8	(4.1)	24.4	(3.7)	22.5	(3.4)	20.9	(3.0)	39.5	(3.7)	17.1	(3.3
Italy	17.3	(3.0)	24.6	(3.3)	28.2	(3.4)	29.9	(3.5)	14.9	(2.5)	25.3	(2.9)	32.7	(3.7)	27.2	(3.6
Japan	3.9	(1.5)	27.0	(3.0)	53.1	(3.6)	16.0	(2.6)	6.3	(1.7)	36.2	(3.5)	43.3	(3.6)	14.2	(2.5
Korea	16.9	(2.8)	25.1	(3.4)	45.7	(4.4)	12.4	(2.9)	14.5	(3.1)	32.8	(3.8)	39.5	(4.2)	13.2	(2.9
Latvia	41.8	(2.7)	36.9	(2.5)	16.5	(1.9)	4.8	(1.0)	35.8	(2.6)	40.4	(2.7)	19.2	(2.2)	4.6	(1.0
Luxembourg Mexico	26.2 19.5	(0.1)	40.2 23.4	(0.1)	19.0 32.2	(0.1)	14.6 24.9	(0.1)	30.9 23.8	(0.1)	49.6 32.2	(0.1)	12.0 29.2	(0.1)	7.6 14.9	(0.1
Netherlands	46.5	(4.9)	27.0	(4.0)	17.3	(3.7)	9.2	(2.7)	42.5	(4.8)	31.3	(4.6)	18.3	(3.8)	7.9	(2.5
New Zealand	28.5	(4.0)	32.1	(3.7)	32.9	(3.8)	6.6	(1.6)	30.9	(4.2)	32.8	(4.1)	28.5	(3.6)	7.8	(1.8
Norway	32.0	(3.4)	37.9	(3.4)	23.7	(3.1)	6.5	(1.7)	27.9	(3.6)	35.5	(3.9)	29.5	(3.2)	7.1	(1.9
Poland	61.0	(3.6)	17.7	(3.1)	16.3	(2.8)	5.0	(1.8)	54.4	(3.9)	21.6	(3.4)	19.1	(2.9)	4.9	(1.7
Portugal	31.3	(3.2)	30.7	(3.1)	22.7	(2.7)	15.4	(2.6)	26.0	(3.2)	29.6	(3.1)	30.0	(2.8)	14.4	(2.5
Slovak Republic	37.1	(3.4)	30.5	(3.1)	24.4	(2.7)	8.0	(1.7)	36.7	(3.3)	30.1	(3.1)	23.2	(2.5)	10.1	(2.1
Slovenia	42.8	(0.5)	30.9	(0.5)	20.5	(0.4)	5.8	(0.4)	48.7	(0.5)	33.3	(0.4)	15.0	(0.3)	3.0	(0.1
Spain	31.9	(3.2)	24.8	(3.1)	28.2	(3.6)	15.0	(2.6)	32.0	(3.4)	19.8	(3.0)	34.8	(3.7)	13.4	(2.2
Sweden Switzerland	46.5 42.8	(3.3)	31.9	(3.3)	18.4 22.7	(2.8)	3.3	(1.4)	42.2 48.6	(3.4)	30.1 31.1	(3.7)	22.4 17.2	(3.5)	5.3 3.1	(1.7
Turkey	36.8	(4.2)	27.9	(4.0)	23.1	(3.3)	12.2	(2.7)	36.6	(4.0)	28.0	(4.1)	24.3	(4.0)	11.1	(2.5
United Kingdom	36.7	(3.0)	17.8	(2.8)	31.6	(3.4)	13.9	(2.6)	40.1	(3.0)	16.0	(2.6)	28.2	(2.7)	15.8	(2.7
United States	44.2	(3.6)	31.3	(2.8)	22.4	(3.1)	2.0	(0.9)	41.9	(3.5)	37.0	(3.7)	17.9	(3.2)	3.2	(1.2
OECD average	34.7	(0.5)	29.0	(0.5)	25.7	(0.5)	10.6	(0.4)	34.2	(0.5)	31.2	(0.5)	24.9	(0.5)	9.7	(0.4
Albania	21.3	(2.9)	13.3	(2.1)	39.4	(3.5)	26.1	(3.6)	18.5	(2.5)	17.6	(2.8)	40.4	(3.8)	23.5	(3.4
Albania Algeria Brazil	24.7	(3.3)	28.0	(4.0)	32.4	(4.0)	14.9	(3.1)	23.8	(3.6)	30.2	(4.1)	29.5	(4.0)	16.5	(3.2
Brazil	40.5	(2.6)	26.4	(2.8)	16.9	(1.9)	16.2	(2.0)	37.8	(2.8)	29.2	(2.7)	16.2	(1.8)	16.9	(2.2
B-S-J-G (China)	23.3	(3.1)	35.1	(3.3)	28.7	(3.0)	12.9	(3.2)	26.0	(3.1)	34.3	(4.2)	25.6	(3.6)	14.2	(3.2
Bulgaria	46.3	(4.3)	25.7	(3.3)	19.8	(3.1)	8.2	(2.3)	43.0	(4.3)	34.3	(3.5)	19.9	(3.0)	2.8	3.0)
CABA (Argentina)	49.6	(6.1)	10.9	(4.5)	19.1	(5.1)	20.4	(4.3)	50.0	(6.3)	15.4	(4.5)	20.0	(5.4)	14.7	(4.4
Costa Pica	20.7	(3.0)	21.7	(3.4)	22.6	(3.0)	35.0	(3.1)	25.7	(2.8)	22.9	(3.0)	24.7	(3.0)	26.7	(3.2
Costa Rica Croatia	17.5 13.1	(2.5)	13.3	(3.1)	22.9 37.8	(3.2)	39.1 35.8	(3.5)	17.9 8.6	(2.8)	20.9	(2.8)	22.2 42.7	(3.2)	39.0 24.8	(3.6
Cyprus*	34.6	(0.2)	34.1	(0.1)	24.2	(0.2)	7.2	(0.1)	30.9	(0.1)	46.2	(0.1)	15.8	(0.1)	7.1	(0.1
Dominican Republic	41.9	(4.0)	19.5	(3.3)	24.5	(3.6)	14.1	(2.5)	44.3	(3.9)	20.7	(3.0)	23.1	(3.2)	11.8	(2.5
FYROM	42.6	(0.2)	31.9	(0.1)	16.3	(0.1)	9.2	(0.1)	38.4	(0.2)	40.8	(0.2)	13.4	(0.1)	7.4	(0.1
Georgia	22.0	(2.5)	19.7	(2.7)	37.8	(3.4)	20.5	(2.7)	22.6	(2.7)	23.8	(3.2)	33.3	(3.3)	20.3	(2.7
Hong Kong (China)	37.0	(4.8)	41.3	(4.7)	16.9	(3.1)	4.8	(1.7)	32.4	(4.0)	45.4	(4.4)	17.3	(3.0)	5.0	(2.1
Indonesia	15.3	(2.2)	22.4	(3.3)	35.6	(3.7)	26.7	(3.0)	15.7	(2.0)	25.2	(3.1)	35.8	(3.7)	23.3	(3.0
Jordan Kosovo	18.2 27.4	(2.4)	21.2	(2.8)	32.2 32.3	(3.7)	28.4 18.4	(3.2)	16.2 22.9	(2.3)	18.6 26.9	(2.8)	42.6 33.1	(3.1)	22.5 17.1	(2.7
Lebanon	38.2	(3.0)	20.3	(2.4)	25.7	(3.3)	15.8	(2.8)	43.2	(3.0)	20.1	(2.9)	26.5	(3.4)	10.3	(1.0
Lithuania	27.2	(2.4)	24.6	(2.6)	32.3	(2.6)	15.9	(1.9)	28.4	(2.3)	26.6	(2.6)	30.6	(2.7)	14.4	(2.0
Macao (China)	37.1	(0.1)	21.9	(0.1)	17.3	(0.1)	23.7	(0.0)	34.0	(0.1)	21.8	(0.0)	20.5	(0.1)	23.7	(0.0
Malta	33.5	(0.1)	32.0	(0.1)	23.6	(0.1)	10.9	(0.1)	41.0	(0.1)	27.6	(0.1)	24.5	(0.1)	6.9	(0.1
Moldova	34.5	(4.0)	31.0	(3.9)	26.5	(3.2)	8.0	(1.8)	26.8	(3.8)	35.5	(3.9)	30.6	(3.5)	7.2	(1.7
Montenegro	28.3	(0.2)	24.4	(0.5)	41.4	(0.5)	5.9	(0.4)	22.6	(0.5)	21.1	(0.1)	48.4	(0.4)	7.9	(0.2
Peru Qatar	31.1 59.4	(2.7)	22.5	(2.2)	23.6 12.8	(2.9)	22.8 4.6	(2.6)	30.4 62.2	(2.6)	22.2	(2.5)	23.9	(2.9)	23.5	(2.6
Romania	35.9	(4.1)	31.2	(4.1)	28.3	(3.9)	4.5	(1.7)	36.9	(4.3)	34.0	(4.2)	23.4	(3.5)	5.8	(1.8
Russia	31.8	(3.7)	18.7	(2.5)	32.8	(3.8)	16.7	(3.3)	29.9	(3.6)	19.9	(3.5)	40.8	(3.5)	9.4	(2.3
Singapore	57.6	(1.1)	31.0	(1.2)	11.0	(0.1)	0.4	(0.0)	58.5	(0.9)	30.9	(0.9)	9.8	(0.1)	0.7	(0.0
Chinese Taipei	23.6	(3.0)	41.1	(3.9)	29.9	(3.2)	5.4	(1.9)	22.6	(2.8)	51.9	(3.7)	22.7	(3.1)	2.8	(1.2
Thailand	21.5	(2.7)	22.9	(2.8)	42.5	(4.0)	13.1	(2.8)	23.2	(3.0)	32.4	(3.6)	36.0	(3.6)	8.3	(2.4
Trinidad and Tobago	5.7	(0.1)	23.1	(0.2)	39.8	(0.3)	31.4	(0.3)	9.1	(0.2)	21.5	(0.2)	38.9	(0.3)	30.5	(0.3
Tunisia	1.9	(1.1)	5.5	(2.0)	38.2	(4.6)	54.4	(4.7)	3.8	(1.6)	9.0	(2.5)	37.8	(4.2)	49.4	(4.5
United Arab Emirates	45.0	(2.4)	19.4	(1.9)	21.2	(2.1)	14.4	(1.7)	48.2	(2.5)	17.9	(2.0)	20.7	(2.0)	13.2	(1.9
Uruguay Viet Nam	31.1	(2.9)	15.5	(2.2)	31.6	(2.8)	21.8	(2.4)	30.1	(3.0)	20.9	(2.5)	26.9	(2.7)	22.1	(2.2
	18.4	(2.9)	20.4	(3.3)	45.1	(4.5)	16.1	(3.1)	22.9	(3.3)	24.5	(3.5)	41.9	(4.0)	10.8	(2.4
Argentina**	25.8	(3.1)	17.4	(3.0)	27.4	(3.6)	29.5	(3.5)	32.1	(3.4)	16.8	(2.7)	24.4	(3.4)	26.8	(3.7
Kazakhstan**	31.3	(3.7)	19.6	(3.2)	36.6	(3.7)	12.5	(2.3)	36.1	(3.5)	21.5	(2.9)	31.6	(3.5)	10.8	(2.4

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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Table II.6.2 Index of shortage of educational material¹, science performance and school characteristics

		All st	udents					By sch	ool socio-	economic	profile ²			
	Ave	erage		ability is index	Bottom	quarter	Second	l quarter	Third	quarter	Тор	quarter		bottom arter
	Mean index	S.E.	S.D.	S.E.	Mean index	S.E.	Mean index	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.E
Australia	-0.39	(0.03)	0.82	(0.03)	-0.13	(0.07)	-0.21	(0.07)	-0.40	(0.07)	-0.77	(0.06)	-0.64	(0.09
Austria	-0.27	(0.06)	0.88	(0.08)	-0.23	(0.13)	-0.30	(0.15)	-0.33	(0.14)	-0.21	(0.16)	0.02	(0.20
Belgium	0.11	(0.06)	0.90	(0.04)	0.24	(0.13)	0.34	(0.15)	-0.06	(0.13)	-0.05	(0.11)	-0.29	(0.17
Canada	-0.46	(0.04)	0.74	(0.03)	-0.46	(0.07)	-0.47	(0.09)	-0.33	(0.12)	-0.61	(0.08)	-0.15	(0.11
Chile Czech Republic	-0.32 -0.13	(0.06)	0.81	(0.04)	-0.04 -0.10	(0.13)	-0.14 -0.07	(0.13)	-0.44 -0.01	(0.13)	-0.65 -0.33	(0.08)	-0.62 -0.24	(0.16
Denmark	-0.13	(0.03)	0.78	(0.10)	-0.10	(0.09)	-0.07	(0.14)	-0.01	(0.11)	-0.38	(0.09)	-0.24	(0.12
Estonia	0.05	(0.05)	0.85	(0.06)	-0.03	(0.14)	-0.23	(0.11)	0.09	(0.13)	0.22	(0.08)	0.25	(0.1)
Finland	0.09	(0.07)	0.84	(0.04)	0.09	(0.14)	0.14	(0.11)	0.11	(0.12)	0.03	(0.14)	-0.06	(0.2)
France	-0.17	(0.06)	0.86	(0.04)	-0.11	(0.12)	-0.15	(0.13)	-0.25	(0.12)	-0.15	(0.13)	-0.04	(0.1
Germany	0.06	(0.07)	0.90	(0.06)	0.09	(0.13)	0.10	(0.16)	0.00	(0.12)	0.04	(0.13)	-0.05	(0.1
Greece	0.39	(0.09)	1.19	(0.07)	0.33	(0.28)	0.68	(0.19)	0.45	(0.22)	0.12	(0.11)	-0.21	(0.3
Hungary	0.51	(0.07)	1.14	(0.06)	0.61	(0.12)	0.59	(0.24)	0.53	(0.19)	0.34	(0.19)	-0.27	(0.2
Iceland	-0.40	(0.00)	0.74	(0.00)	-0.57	(0.01)	-0.33	(0.01)	-0.42	(0.01)	-0.28	(0.01)	0.29	(0.0)
Ireland	0.25	(0.09)	1.20	(0.08)	0.48	(0.22)	0.20	(0.20)	0.22	(0.23)	0.10	(0.25)	-0.38	(0.3
Israel	0.44	(0.10)	1.12	(0.10)	0.73	(0.26)	0.42	(0.17)	0.21	(0.15)	0.39	(0.20)	-0.34	(0.3
Italy	0.56	(0.08)	1.07	(0.07)	0.66	(0.20)	0.65	(0.23)	0.68	(0.14)	0.24	(0.16)	-0.43	(0.2
Japan	0.72	(0.07)	1.00	(0.07)	0.98	(0.17)	0.86	(0.18)	0.69	(0.15)	0.36	(0.12)	-0.62	(0.2
Korea	0.42	(0.08)	0.93	(0.07)	0.43	(0.18)	0.48	(0.17)	0.41	(0.12)	0.35	(0.13)	-0.08	(0.2
Latvia	-0.19	(0.04)	0.78	(0.02)	-0.34	(0.07)	-0.27	(0.09)	-0.27	(0.10)	0.13	(80.0)	0.47	(0.1
Luxembourg	-0.16	(0.00)	0.81	(0.00)	0.06	(0.01)	-0.21	(0.00)	0.03	(0.00)	-0.53	(0.00)	-0.59	(0.0
Mexico	0.46	(0.07)	1.20	(0.06)	1.28	(0.14)	0.45	(0.13)	0.51	(0.16)	-0.39	(0.12)	-1.67	(0.1
Netherlands	-0.20	(0.08)	0.87	(0.07)	-0.20	(0.21)	-0.18	(0.14)	-0.11	(0.17)	-0.30	(0.17)	-0.10	(0.2
New Zealand	-0.09	(0.06)	0.82	(0.04)	0.11	(0.17)	-0.13	(0.12)	-0.03	(0.16)	-0.29	(0.11)	-0.39	(0.2
Norway	0.00	(0.06)	0.78	(0.04)	0.15	(0.12)	-0.01	(0.13)	0.04	(0.12)	-0.20	(0.11)	-0.35	(0.1
Poland	-0.35	(0.07)	0.93	(0.09)	-0.43	(0.12)	-0.27	(0.11)	-0.39	(0.16)	-0.31	(0.17)	0.12	(0.2
Portugal	0.11	(0.07)	1.02	(0.07)	0.24	(0.19)	0.41	(0.16)	0.08	(0.22)	-0.30	(0.19)	-0.54	(0.2
Slovak Republic	0.05	(0.06)	0.94	(0.06)	0.02	(0.09)	-0.14	(0.16)	0.09	(0.13)	0.25	(0.12)	0.23	(0.1
Slovenia	-0.30	(0.01)	0.87	(0.01)	-0.22	(0.04)	-0.02	(0.03)	-0.47	(0.03)	-0.50	(0.01)	-0.27	(0.0
Spain	0.23	(0.08)	1.21	(0.08)	0.53	(0.18)	0.49	(0.18)	0.30	(0.20)	-0.39	(0.13)	-0.92	(0.2
Sweden	-0.28	(0.06)	0.81	(0.08)	-0.16	(0.17)	0.01	(0.16)	-0.49	(0.14)	-0.49	(0.13)	-0.33	(0.2
Switzerland Turkey	-0.38 0.14	(0.05)	0.75	(0.04)	-0.23 0.57	(0.14)	-0.53	(0.12)	-0.48 -0.01	(0.12)	-0.28 -0.39	(0.10)	-0.06	(0.1
United Kingdom	0.14	(0.10) (0.07)	1.09	(0.10) (0.06)	-0.24	(0.21)	-0.05	(0.20)	0.29	(0.26) (0.17)	0.16	(0.24) (0.15)	-0.96 0.40	(0.3
United States	-0.33	(0.07)	0.79	(0.05)	-0.24	(0.14)	-0.03	(0.21)	-0.56	(0.17)	-0.33	(0.13)	-0.32	(0.2
OECD average	0.00	(0.01)	0.93	(0.01)	0.12	(0.03)	0.06	(0.02)	-0.01	(0.03)	-0.15	(0.02)	-0.27	(0.0)
Albania	0.64	(0.09)	1.12	(0.07)	0.54	(0.23)	0.73	(0.29)	0.61	(0.30)	0.70	(0.12)	0.16	(0.2
Algeria	-0.05	(0.09)	1.07	(0.09)	0.45	(0.22)	0.05	(0.18)	-0.24	(0.19)	0.09	(0.17)	-0.37 -1.01	(0.2
Brazil B-S-J-G (China)	0.26	(0.03)	1.17	(0.04)	0.42	(0.12)	0.27	(0.12)	-0.24	(0.11)	-0.08	(0.10)	-0.71	(0.1
Bulgaria	-0.26	(0.03)	0.81	(0.06)	-0.28	(0.19)	-0.31	(0.10)	-0.03	(0.23)	-0.08	(0.18)	0.19	(0.2
CABA (Argentina)	-0.12	(0.07)	1.24	(0.16)	0.87	(0.10)	0.07	(0.12)	-0.70	(0.13)	-1.04	(0.10)	-1.91	(0.4
Colombia	0.64	(0.13)	1.34	(0.10)	0.89	(0.18)	1.00	(0.23)	0.84	(0.21)	-0.16	(0.20)	-1.05	(0.2
Costa Rica	1.03	(0.03)	1.51	(0.07)	0.99	(0.18)	0.80	(0.23)	0.95	(0.23)	1.36	(0.13)	0.36	(0.3
Croatia	0.87	(0.09)	1.06	(0.07)	1.12	(0.21)	0.87	(0.18)	0.75	(0.22)	0.74	(0.16)	-0.38	(0.2
Cyprus*	-0.06	(0.00)	0.97	(0.00)	-0.10	(0.21)	0.30	(0.10)	-0.26	(0.13)	-0.21	(0.00)	-0.36	(0.0
Dominican Republic	0.11	(0.09)	1.13	(0.08)	0.41	(0.21)	0.11	(0.22)	0.34	(0.23)	-0.41	(0.13)	-0.82	(0.2
FYROM	-0.09	(0.00)	0.94	(0.00)	-0.15	(0.21)	-0.01	(0.22)	-0.09	(0.23)	-0.10	(0.13)	0.05	(0.0
Georgia	0.35	(0.06)	1.02	(0.04)	0.72	(0.15)	0.30	(0.12)	0.46	(0.11)	-0.05	(0.14)	-0.77	(0.2
Hong Kong (China)	-0.24	(0.07)	0.78	(0.05)	-0.15	(0.17)	-0.41	(0.13)	-0.23	(0.11)	-0.19	(0.15)	-0.04	(0.2
Indonesia	0.87	(0.08)	1.36	(0.07)	1.43	(0.24)	0.87	(0.20)	0.73	(0.14)	0.44	(0.17)	-0.99	(0.3
Jordan	0.70	(0.09)	1.31	(0.07)	1.25	(0.20)	0.60	(0.13)	0.84	(0.21)	0.12	(0.15)	-1.13	(0.2
Kosovo	0.54	(0.03)	1.06	(0.03)	0.44	(0.08)	0.86	(0.05)	0.54	(0.06)	0.32	(0.06)	-0.12	(0.1
Lebanon	0.02	(0.08)	1.15	(0.08)	0.67	(0.22)	0.25	(0.13)	-0.23	(0.14)	-0.58	(0.12)	-1.25	(0.2
Lithuania	0.29	(0.05)	1.02	(0.05)	0.26	(0.15)	0.16	(0.12)	0.24	(0.11)	0.51	(0.16)	0.25	(0.2
Macao (China)	0.20	(0.00)	1.30	(0.00)	1.11	(0.00)	0.31	(0.00)	-0.11	(0.00)	-0.52	(0.00)	-1.63	(0.0
Malta	-0.24	(0.00)	0.87	(0.00)	0.03	(0.01)	-0.34	(0.01)	-0.19	(0.01)	-0.48	(0.00)	-0.52	(0.0
Moldova	0.17	(0.06)	0.85	(0.04)	0.34	(0.12)	0.17	(0.14)	0.14	(0.11)	0.04	(0.11)	-0.30	(0.1
Montenegro	0.35	(0.01)	1.00	(0.00)	0.37	(0.02)	-0.16	(0.03)	0.94	(0.01)	0.25	(0.01)	-0.12	(0.0
Peru	0.51	(80.0)	1.37	(0.07)	1.10	(0.16)	1.11	(0.16)	0.41	(0.18)	-0.55	(0.17)	-1.65	(0.2
Qatar	-0.65	(0.00)	0.83	(0.00)	-0.56	(0.01)	-0.51	(0.01)	-0.86	(0.00)	-0.68	(0.00)	-0.12	(0.0
Romania	-0.03	(0.07)	0.86	(0.08)	-0.04	(0.15)	-0.04	(0.15)	0.14	(0.21)	-0.18	(0.13)	-0.14	(0.2
Russia	0.31	(0.10)	1.17	(0.08)	0.54	(0.18)	0.48	(0.23)	0.25	(0.19)	-0.03	(0.27)	-0.57	(0.3
Singapore	-0.73	(0.01)	0.60	(0.00)	-0.62	(0.01)	-0.66	(0.02)	-0.81	(0.01)	-0.85	(0.03)	-0.23	(0.0
Chinese Taipei	-0.11	(0.05)	0.71	(0.03)	-0.03	(0.12)	0.09	(0.11)	-0.22	(0.12)	-0.29	(0.10)	-0.26	(0.1
Thailand	0.34	(0.08)	1.04	(0.07)	0.65	(0.17)	0.47	(0.17)	0.33	(0.13)	-0.10	(0.15)	-0.75	(0.2
Trinidad and Tobago	0.85	(0.01)	1.08	(0.01)	0.73	(0.01)	1.05	(0.02)	1.09	(0.01)	0.57	(0.01)	-0.16	(0.0
Tunisia	1.59	(0.11)	1.16	(0.07)	1.53	(0.14)	1.70	(0.26)	1.78	(0.22)	1.32	(0.21)	-0.21	(0.2
United Arab Emirates	-0.05	(0.07)	1.34	(0.07)	0.58	(0.26)	0.10	(0.20)	-0.20	(0.11)	-0.69	(0.08)	-1.26	(0.2
Uruguay Viot Nam	0.25	(0.07)	1.14	(0.05)	0.49	(0.13)	0.45	(0.14)	0.34	(0.13)	-0.28	(0.14)	-0.77	(0.1
Viet Nam	0.39	(0.08)	1.05	(80.0)	0.37	(0.14)	0.45	(0.21)	0.61	(0.16)	0.12	(0.17)	-0.24	(0.2
Argentina**	0.35	(0.09)	1.20	(0.06)	0.68	(0.19)	0.63	(0.18)	0.34	(0.24)	-0.26	(0.18)	-0.94	(0.2
Kazakhstan**	0.19	(0.08)	1.05	(0.08)	0.33	(0.19)	0.17	(0.15)	0.04	(0.14)	0.21	(0.19)	-0.12	(0.2

^{1.} Higher values in the index indicate greater shortage of educational material.
2. The socio-economic profile is measured by the PISA index of economic, social and cultural status.

Note: Values that are statistically significant are indicated in bold (see Annex A3).

*See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 2/3]

Table II.6.2 Index of shortage of educational material¹, science performance and school characteristics

				By schoo	location						By type	of school		_
	(fewe	a or village er than people)	(3 0	wn 00 to) people)		ity ver people)	City - r	ural area	Pu	blic	Pri	vate	Private	– publ
	Mean index	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.E
Australia	-0.19	(0.18)	-0.27	(0.06)	-0.45	(0.04)	-0.25	(0.19)	-0.14	(0.04)	-0.70	(0.04)	-0.56	(0.0!
Australia Austria Belgium	0.07	(0.26)	-0.31	(0.07)	-0.31	(0.13)	-0.38	(0.29)	-0.27	(0.07)	-0.16	(0.19)	0.11	(0.20
	-0.09	(0.24)	0.04	(0.07)	0.27	(0.11)	0.36	(0.29)	W	W	W	W	W	,
Canada	-0.30	(0.14)	-0.51	(0.07)	-0.45	(0.06)	-0.14	(0.16)	-0.43	(0.04)	-0.80	(0.15)	-0.37	(0.1
Chile	0.42	(0.53)	-0.25	(0.13)	-0.38	(0.07)	-0.80	(0.54)	0.13	(0.09)	-0.60	(0.07)	-0.73	(0.1
Czech Republic	-0.05	(0.11)	-0.08	(0.06)	-0.28	(0.09)	-0.23	(0.14)	-0.12	(0.05)	-0.15	(0.16)	-0.02	(0.12
Denmark	-0.49	(0.12)	-0.19	(0.11)	-0.06	(0.14)	0.44	(0.18)	-0.17	(0.09)	-0.35	(0.11)	-0.18	(0.13
Estonia	0.02	(0.12)	0.14	(0.07)	-0.08	(0.08)	-0.11	(0.14)	0.06	(0.05)	-0.20	(0.27)	-0.26	(0.28
Finland	-0.07	(0.17)	0.12	(0.08)	0.10	(0.13)	0.17	(0.22)	0.13	(0.07)	-0.70	(0.25)	-0.83	(0.26
France	0.26	(0.20)	-0.15	(0.08)	-0.25	(0.10)	-0.52	(0.23)	-0.22	(0.08)	0.00	(0.11)	0.21	(0.14
Germany	-0.03	(0.35)	-0.04	(0.08)	0.28	(0.12)	0.32	(0.36)	0.09	(0.07)	-0.41	(0.16)	-0.50	(0.18
Greece	0.80	(0.41)	0.43	(0.11)	0.25	(0.14)	-0.55	(0.44)	0.46	(0.09)	-0.94	(0.13)	-1.40	(0.16
Hungary	-0.02	(0.15)	0.51	(0.11)	0.55	(0.13)	0.57	(0.20)	0.64	(0.08)	-0.09	(0.12)	-0.73	(0.13
Iceland	-0.48	(0.01)	-0.44	(0.00)	-0.29	(0.01)	0.19	(0.01)	-0.41	(0.00)	С	C	С	
Ireland	0.69	(0.26)	0.25	(0.14)	-0.03	(0.16)	-0.72	(0.30)	0.24	(0.14)	0.25	(0.12)	0.01	(0.18
Israel	0.34	(0.18)	0.50	(0.15)	0.39	(0.18)	0.06	(0.25)	m	m	m	m	m	- 1
Italy	0.45	(0.26)	0.63	(0.10)	0.39	(0.14)	-0.06	(0.29)	0.60	(0.08)	-0.51	(0.21)	-1.12	(0.22
Japan	С	С	0.82	(0.12)	0.68	(0.08)	С	С	0.84	(0.09)	0.47	(0.10)	-0.36	(0.14
Korea	С	c	0.37	(0.23)	0.42	(0.08)	С	С	0.49	(0.11)	0.28	(0.11)	-0.21	(0.1.
Latvia	-0.33	(0.05)	-0.24	(0.07)	0.01	(0.07)	0.34	(0.09)	-0.19	(0.04)	-0.40	(0.27)	-0.22	(0.2
Luxembourg	m	m	-0.22	(0.00)	-0.09	(0.00)	m	m	-0.11	(0.00)	-0.45	(0.00)	-0.34	(0.0)
Mexico	1.26	(0.17)	0.57	(0.13)	0.08	(0.09)	-1.19	(0.20)	0.62	(0.07)	-0.64	(0.12)	-1.25	(0.1
Netherlands	C C	(0.17)	-0.25	(0.11)	-0.07	(0.15)	С С	(0.20) C	-0.25	(0.13)	-0.19	(0.11)	0.06	(0.1
New Zealand	0.17	(0.48)	-0.14	(0.11)	-0.07	(0.08)	-0.24	(0.49)	-0.25	(0.06)	-0.59	(0.23)	-0.54	(0.1
Norway	0.17	(0.46)	0.09	(0.08)	-0.07	(0.06)	-0.24	(0.49)	0.00	(0.06)	-0.39	(0.23)	-0.10	(0.2
Poland	-0.34	(0.13)	-0.50	(0.11)	-0.16		0.18	(0.17)	-0.35	(0.07)	-0.10	(0.14)	0.02	
						(0.17)								(0.1
Portugal	0.51	(0.35)	0.10	(0.08)	0.06	(0.19)	-0.45	(0.41)	0.17	(0.07)	-0.89	(0.20)	-1.06	(0.2
Slovak Republic	0.08	(0.10)	0.01	(0.07)	0.25	(0.25)	0.17	(0.26)	0.03	(0.07)	0.22	(0.13)	0.19	(0.1
Slovenia	-0.49	(0.08)	-0.30	(0.01)	-0.29	(0.01)	0.20	(0.08)	-0.29	(0.01)	-0.88	(0.00)	-0.59	(0.0)
Spain	0.62	(0.48)	0.28	(0.12)	0.10	(0.13)	-0.51	(0.49)	0.55	(0.11)	-0.46	(0.10)	-1.00	(0.1
Sweden	-0.18	(0.37)	-0.25	(0.08)	-0.37	(0.08)	-0.19	(0.38)	-0.20	(0.07)	-0.65	(0.10)	-0.45	(0.1
Switzerland	-0.31	(0.15)	-0.41	(0.06)	-0.25	(0.12)	0.07	(0.20)	-0.39	(0.06)	-0.31	(0.19)	0.08	(0.2
Turkey	0.69	(0.48)	0.25	(0.17)	0.05	(0.14)	-0.64	(0.51)	0.20	(0.11)	-1.08	(0.13)	-1.27	(0.1
United Kingdom	0.45	(0.16)	0.08	(0.09)	-0.17	(0.14)	-0.62	(0.23)	0.09	(0.08)	-0.64	(0.18)	-0.74	(0.2
United States	-0.61	(0.17)	-0.39	(0.07)	-0.18	(0.11)	0.43	(0.21)	-0.35	(0.06)	-0.14	(0.22)	0.21	(0.2
OECD average	0.09	(0.05)	0.01	(0.02)	-0.02	(0.02)	-0.14	(0.05)	0.05	(0.01)	-0.36	(0.03)	-0.43	(0.0)
Albania	0.81	(0.17)	0.75	(0.10)	0.35	(0.19)	-0.46	(0.26)	0.88	(0.09)	-1.18	(0.04)	-2.06	(0.0
Algeria	0.90	(0.30)	0.16	(0.11)	-0.06	(0.15)	-0.96	(0.33)	0.18	(0.09)	С	(0.0 I)	С С	(0.0
Brazil	0.54	(0.25)	0.20	(0.08)	-0.32	(0.08)	-0.86	(0.27)	0.10	(0.06)	-1.10	(0.05)	-1.22	(0.0)
B-S-J-G (China)	0.93	(0.25)	0.20	(0.12)	0.02	(0.14)	-0.91	(0.27)	0.12	(0.09)	0.36	(0.32)	0.14	(0.3
			-0.22											(0.5
Bulgaria	-0.08	(0.25)		(0.08)	-0.33	(0.13)	-0.26	(0.28)	-0.25	(0.07)	C	(O 16)	C 114	(0.2
CABA (Argentina)	m	m	C	C	-0.09	(0.16)	m	m	0.45	(0.28)	-0.68	(0.16)	-1.14	(0.3
Colombia	0.93	(0.23)	0.84	(0.19)	0.41	(0.10)	-0.52	(0.25)	1.03	(0.11)	-0.59	(0.08)	-1.62	(0.1
Costa Rica	0.46	(0.23)	1.35	(0.14)	0.37	(0.32)	-0.09	(0.42)	1.09	(0.10)	0.57	(0.40)	-0.52	(0.4
Croatia	С	С	0.88	(0.11)	0.89	(0.15)	С	С	0.89	(0.09)	С	C	С	
Cyprus*	0.08	(0.03)	-0.12	(0.00)	0.02	(0.00)	-0.07	(0.03)	0.06	(0.00)	-0.73	(0.01)	-0.79	(0.0
Dominican Republic	0.60	(0.25)	0.11	(0.10)	-0.27	(0.17)	-0.87	(0.31)	0.26	(0.10)	-0.42	(0.16)	-0.69	(0.1
FYROM	0.60	(0.01)	-0.19	(0.00)	0.04	(0.01)	-0.56	(0.01)	-0.07	(0.00)	-1.09	(0.00)	-1.02	(0.0
Georgia	0.70	(0.10)	0.34	(0.12)	0.12	(0.10)	-0.58	(0.13)	0.45	(0.06)	-0.71	(0.18)	-1.17	(0.1
	1		m	m	-0.24	(0.07)	m	m	-0.03	(0.30)	-0.26	(0.07)	-0.23	(0.3
Hong Kong (China)	m	m	1111										0.17	(0.1
Indonesia	1.23	m (0.18)	0.81	(0.11)	0.38	(0.16)	-0.85	(0.24)	0.80	(0.10)	0.97	(0.14)		
					0.38 0.27	(0.16) (0.13)			0.80 0.83	(0.10)	0.97	(0.14)	-0.66	(0.2
Indonesia	1.23	(0.18)	0.81	(0.11)			-0.85	(0.24)					-0.66 -1.27	
Indonesia Jordan	1.23 1.19	(0.18) (0.29)	0.81 0.86	(0.11) (0.13)	0.27	(0.13)	-0.85 -0.91	(0.24) (0.33)	0.83	(0.10)	0.17	(0.19)		(0.1
Indonesia Jordan Kosovo Lebanon	1.23 1.19 0.58 0.46	(0.18) (0.29) (0.10) (0.30)	0.81 0.86 0.58 0.03	(0.11) (0.13) (0.04) (0.10)	0.27 0.45	(0.13) (0.05) (0.11)	-0.85 -0.91 -0.13 -0.69	(0.24) (0.33) (0.12) (0.33)	0.83 0.57 0.60	(0.10) (0.03) (0.14)	0.17 -0.70 -0.53	(0.19) (0.17) (0.07)	-1.27 -1.13	(0.1
Indonesia Jordan Kosovo	1.23 1.19 0.58	(0.18) (0.29) (0.10) (0.30) (0.14)	0.81 0.86 0.58	(0.11) (0.13) (0.04) (0.10) (0.07)	0.27 0.45 -0.23 0.32	(0.13) (0.05) (0.11) (0.07)	-0.85 -0.91 -0.13 -0.69 -0.08	(0.24) (0.33) (0.12) (0.33) (0.15)	0.83 0.57 0.60 0.28	(0.10) (0.03) (0.14) (0.05)	0.17 -0.70 -0.53 0.73	(0.19) (0.17) (0.07) (0.42)	-1.27 -1.13 0.44	(0.1
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China)	1.23 1.19 0.58 0.46 0.40	(0.18) (0.29) (0.10) (0.30) (0.14)	0.81 0.86 0.58 0.03 0.21	(0.11) (0.13) (0.04) (0.10) (0.07)	0.27 0.45 -0.23 0.32 0.20	(0.13) (0.05) (0.11) (0.07) (0.00)	-0.85 -0.91 -0.13 -0.69 -0.08	(0.24) (0.33) (0.12) (0.33) (0.15)	0.83 0.57 0.60 0.28	(0.10) (0.03) (0.14) (0.05)	0.17 -0.70 -0.53 0.73 0.18	(0.19) (0.17) (0.07) (0.42) (0.00)	-1.27 -1.13 0.44	(0.1 (0.1 (0.4
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta	1.23 1.19 0.58 0.46 0.40 c	(0.18) (0.29) (0.10) (0.30) (0.14) C (0.00)	0.81 0.86 0.58 0.03 0.21 c	(0.11) (0.13) (0.04) (0.10) (0.07) c (0.00)	0.27 0.45 -0.23 0.32 0.20 m	(0.13) (0.05) (0.11) (0.07) (0.00) m	-0.85 -0.91 -0.13 -0.69 -0.08 c	(0.24) (0.33) (0.12) (0.33) (0.15) c	0.83 0.57 0.60 0.28 c	(0.10) (0.03) (0.14) (0.05) C (0.00)	0.17 -0.70 -0.53 0.73 0.18 -0.23	(0.19) (0.17) (0.07) (0.42) (0.00) (0.00)	-1.27 -1.13 0.44 c 0.01	(0.1 (0.1 (0.4
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova	1.23 1.19 0.58 0.46 0.40 c -0.36	(0.18) (0.29) (0.10) (0.30) (0.14) C (0.00) (0.08)	0.81 0.86 0.58 0.03 0.21 c -0.23 0.03	(0.11) (0.13) (0.04) (0.10) (0.07) c (0.00) (0.10)	0.27 0.45 -0.23 0.32 0.20 m 0.04	(0.13) (0.05) (0.11) (0.07) (0.00) m (0.14)	-0.85 -0.91 -0.13 -0.69 -0.08 c m -0.27	(0.24) (0.33) (0.12) (0.33) (0.15) c m (0.17)	0.83 0.57 0.60 0.28 c -0.25 0.19	(0.10) (0.03) (0.14) (0.05) C (0.00) (0.06)	0.17 -0.70 -0.53 0.73 0.18 -0.23	(0.19) (0.17) (0.07) (0.42) (0.00) (0.00)	-1.27 -1.13 0.44 c 0.01	(0.2 (0.1 (0.1 (0.4 (0.0
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro	1.23 1.19 0.58 0.46 0.40 c -0.36 0.30	(0.18) (0.29) (0.10) (0.30) (0.14) c (0.00) (0.08)	0.81 0.86 0.58 0.03 0.21 c -0.23 0.03 0.50	(0.11) (0.13) (0.04) (0.10) (0.07) C (0.00) (0.10) (0.01)	0.27 0.45 -0.23 0.32 0.20 m 0.04 0.05	(0.13) (0.05) (0.11) (0.07) (0.00) m (0.14) (0.02)	-0.85 -0.91 -0.13 -0.69 -0.08 c m -0.27	(0.24) (0.33) (0.12) (0.33) (0.15) c m (0.17)	0.83 0.57 0.60 0.28 c -0.25 0.19 0.36	(0.10) (0.03) (0.14) (0.05) c (0.00) (0.06) (0.01)	0.17 -0.70 -0.53 0.73 0.18 -0.23	(0.19) (0.17) (0.07) (0.42) (0.00) (0.00)	-1.27 -1.13 0.44 c 0.01 c	(0.1 (0.1 (0.4 (0.0
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru	1.23 1.19 0.58 0.46 0.40 c -0.36 0.30 c	(0.18) (0.29) (0.10) (0.30) (0.14) c (0.00) (0.08) c (0.16)	0.81 0.86 0.58 0.03 0.21 c -0.23 0.03 0.50 0.43	(0.11) (0.13) (0.04) (0.10) (0.07) c (0.00) (0.10) (0.01) (0.01)	0.27 0.45 -0.23 0.32 0.20 m 0.04 0.05 -0.04	(0.13) (0.05) (0.11) (0.07) (0.00) m (0.14) (0.02) (0.21)	-0.85 -0.91 -0.13 -0.69 -0.08 c m -0.27 c	(0.24) (0.33) (0.12) (0.33) (0.15) c m (0.17) c	0.83 0.57 0.60 0.28 c -0.25 0.19 0.36 1.03	(0.10) (0.03) (0.14) (0.05) C (0.00) (0.06) (0.01) (0.10)	0.17 -0.70 -0.53 0.73 0.18 -0.23 c	(0.19) (0.17) (0.07) (0.42) (0.00) (0.00) c c (0.09)	-1.27 -1.13 0.44 C 0.01 C	(0.1 (0.1 (0.4 (0.0
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar	1.23 1.19 0.58 0.46 0.40 c -0.36 0.30 c 0.98	(0.18) (0.29) (0.10) (0.30) (0.14) c (0.00) (0.08) c (0.16) (0.01)	0.81 0.86 0.58 0.03 0.21 c -0.23 0.03 0.50 0.43 -0.64	(0.11) (0.13) (0.04) (0.10) (0.07) C (0.00) (0.10) (0.01) (0.01) (0.00)	0.27 0.45 -0.23 0.32 0.20 m 0.04 0.05 -0.04 -0.68	(0.13) (0.05) (0.11) (0.07) (0.00) m (0.14) (0.02) (0.21) (0.00)	-0.85 -0.91 -0.13 -0.69 -0.08 c m -0.27 c -1.02 -0.25	(0.24) (0.33) (0.12) (0.33) (0.15) c m (0.17) c (0.28) (0.01)	0.83 0.57 0.60 0.28 c -0.25 0.19 0.36 1.03	(0.10) (0.03) (0.14) (0.05) C (0.00) (0.06) (0.01) (0.10) (0.00)	0.17 -0.70 -0.53 0.73 0.18 -0.23 c c -0.62 -0.69	(0.19) (0.17) (0.07) (0.42) (0.00) (0.00) c c (0.09) (0.00)	-1.27 -1.13 0.44 c 0.01 c c -1.66	(0.1 (0.1 (0.4 (0.0
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania	1.23 1.19 0.58 0.46 0.40 c -0.36 0.30 c 0.98 -0.43	(0.18) (0.29) (0.10) (0.30) (0.14) c (0.00) (0.08) c (0.16) (0.01) (0.18)	0.81 0.86 0.58 0.03 0.21 c -0.23 0.03 0.50 0.43 -0.64	(0.11) (0.13) (0.04) (0.10) (0.07) C (0.00) (0.10) (0.01) (0.01) (0.00) (0.10)	0.27 0.45 -0.23 0.32 0.20 m 0.04 0.05 -0.04 -0.68 -0.21	(0.13) (0.05) (0.11) (0.07) (0.00) m (0.14) (0.02) (0.21) (0.00) (0.12)	-0.85 -0.91 -0.13 -0.69 -0.08 c m -0.27 c -1.02 -0.25 -0.47	(0.24) (0.33) (0.12) (0.33) (0.15) c m (0.17) c (0.28) (0.01) (0.20)	0.83 0.57 0.60 0.28 c -0.25 0.19 0.36 1.03 -0.63 -0.02	(0.10) (0.03) (0.14) (0.05) C (0.00) (0.06) (0.01) (0.10) (0.00) (0.07)	0.17 -0.70 -0.53 0.73 0.18 -0.23 c c -0.62 -0.69	(0.19) (0.17) (0.07) (0.42) (0.00) (0.00) c c (0.09) (0.00)	-1.27 -1.13 0.44 c 0.01 c -1.66 -0.06	(0.1 (0.1 (0.4 (0.0
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia	1.23 1.19 0.58 0.46 0.40 c -0.36 0.30 c 0.98 -0.43 0.25	(0.18) (0.29) (0.10) (0.30) (0.14) c (0.00) (0.08) c (0.16) (0.01) (0.18) (0.17)	0.81 0.86 0.58 0.03 0.21 c -0.23 0.03 0.50 0.43 -0.64 0.01 0.26	(0.11) (0.13) (0.04) (0.10) (0.07) C (0.00) (0.10) (0.01) (0.01) (0.00) (0.10) (0.10) (0.13)	0.27 0.45 -0.23 0.32 0.20 m 0.04 0.05 -0.04 -0.68 -0.21 0.26	(0.13) (0.05) (0.11) (0.07) (0.00) m (0.14) (0.02) (0.21) (0.00) (0.12) (0.16)	-0.85 -0.91 -0.13 -0.69 -0.08 c m -0.27 c -1.02 -0.25 -0.47 -0.32	(0.24) (0.33) (0.12) (0.33) (0.15) c m (0.17) c (0.28) (0.01) (0.20) (0.21)	0.83 0.57 0.60 0.28 c -0.25 0.19 0.36 1.03 -0.63 -0.02 0.31	(0.10) (0.03) (0.14) (0.05) C (0.00) (0.06) (0.01) (0.10) (0.00) (0.07) (0.10)	0.17 -0.70 -0.53 0.73 0.18 -0.23 c c -0.62 -0.69	(0.19) (0.17) (0.07) (0.42) (0.00) (0.00) c c (0.09) (0.00)	-1.27 -1.13 0.44 c 0.01 c -1.66 -0.06 c	(0.1 (0.1 (0.4 (0.0 (0.1 (0.0
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore	1.23 1.19 0.58 0.46 0.40 c -0.36 0.30 c 0.98 -0.43 0.25 0.58 m	(0.18) (0.29) (0.10) (0.30) (0.14) c (0.00) (0.08) c (0.16) (0.01) (0.18) (0.17) m	0.81 0.86 0.58 0.03 0.21 c -0.23 0.03 0.50 0.43 -0.64 0.01 0.26 m	(0.11) (0.13) (0.04) (0.10) (0.07) C (0.00) (0.10) (0.11) (0.01) (0.11) (0.00) (0.13) m	0.27 0.45 -0.23 0.32 0.20 m 0.04 0.05 -0.04 -0.68 -0.21 0.26 -0.74	(0.13) (0.05) (0.11) (0.07) (0.00) m (0.14) (0.02) (0.21) (0.00) (0.12) (0.16) (0.01)	-0.85 -0.91 -0.13 -0.69 -0.08 c m -0.27 c -1.02 -0.25 -0.47 -0.32 m	(0.24) (0.33) (0.12) (0.33) (0.15) C m (0.17) C (0.28) (0.01) (0.20) (0.21)	0.83 0.57 0.60 0.28 c -0.25 0.19 0.36 1.03 -0.63 -0.02 0.31 -0.75	(0.10) (0.03) (0.14) (0.05) C (0.00) (0.06) (0.01) (0.10) (0.00) (0.07) (0.10) (0.00)	0.17 -0.70 -0.53 0.73 0.18 -0.23 c c -0.62 -0.69 c	(0.19) (0.17) (0.07) (0.42) (0.00) (0.00) c c (0.09) (0.00) c	-1.27 -1.13 0.44 c 0.01 c -1.66 -0.06 c	(0.1 (0.1 (0.4 (0.0 (0.1 (0.0
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei	1.23 1.19 0.58 0.46 0.40 c -0.36 0.30 c 0.98 -0.43 0.25 0.58 m	(0.18) (0.29) (0.10) (0.30) (0.14) c (0.00) (0.08) c (0.16) (0.01) (0.18) (0.17) m	0.81 0.86 0.58 0.03 0.21 c -0.23 0.03 0.50 0.43 -0.64 0.01	(0.11) (0.13) (0.04) (0.10) (0.07) c (0.00) (0.10) (0.01) (0.01) (0.00) (0.10) (0.13) m (0.09)	0.27 0.45 -0.23 0.32 0.20 m 0.04 0.05 -0.04 -0.68 -0.21 0.26 -0.74 -0.18	(0.13) (0.05) (0.11) (0.07) (0.00) m (0.14) (0.02) (0.21) (0.00) (0.12) (0.16) (0.01) (0.06)	-0.85 -0.91 -0.13 -0.69 -0.08 c m -0.27 c -1.02 -0.25 -0.47 -0.32 m	(0.24) (0.33) (0.12) (0.33) (0.15) c m (0.17) c (0.28) (0.01) (0.20) (0.21) m	0.83 0.57 0.60 0.28 c -0.25 0.19 0.36 1.03 -0.63 -0.02 0.31 -0.75 0.04	(0.10) (0.03) (0.14) (0.05) c (0.00) (0.06) (0.01) (0.10) (0.07) (0.10) (0.00) (0.00) (0.00)	0.17 -0.70 -0.53 0.73 0.18 -0.23 c c -0.62 -0.69 c	(0.19) (0.17) (0.07) (0.42) (0.00) (0.00) c c (0.09) (0.00) c c (0.07) (0.09)	-1.27 -1.13 0.44	(0.1 (0.1 (0.4 (0.0 (0.1 (0.0 (0.1
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand	1.23 1.19 0.58 0.46 0.40 c -0.36 0.30 c 0.98 -0.43 0.25 0.58 m	(0.18) (0.29) (0.10) (0.30) (0.14) c (0.00) (0.08) c (0.16) (0.01) (0.18) (0.17) m c (0.19)	0.81 0.86 0.58 0.03 0.21 c -0.23 0.50 0.43 -0.64 0.01 0.26 m	(0.11) (0.13) (0.04) (0.10) (0.07) C (0.00) (0.10) (0.11) (0.00) (0.11) (0.13) (0.09) (0.10)	0.27 0.45 -0.23 0.32 0.20 m 0.04 -0.05 -0.04 -0.68 -0.21 0.26 -0.74 -0.18	(0.13) (0.05) (0.11) (0.07) (0.00) m (0.14) (0.02) (0.21) (0.00) (0.12) (0.16) (0.01) (0.06) (0.19)	-0.85 -0.91 -0.13 -0.69 -0.08 c m -0.27 c -1.02 -0.25 -0.47 -0.32 m c	(0.24) (0.33) (0.12) (0.33) (0.15) C m (0.17) C (0.28) (0.01) (0.20) (0.21) m C	0.83 0.57 0.60 0.28 c -0.25 0.19 0.36 1.03 -0.63 -0.02 0.31 -0.75 0.04 0.45	(0.10) (0.03) (0.14) (0.05) c (0.00) (0.06) (0.01) (0.10) (0.00) (0.07) (0.10) (0.00) (0.00) (0.00) (0.06) (0.09)	0.17 -0.70 -0.53 0.73 0.18 -0.23 c c -0.62 -0.69 c -0.51 -0.41 -0.32	(0.19) (0.17) (0.07) (0.00) (0.00) c c (0.09) (0.00) c c (0.07) (0.09) (0.10)	-1.27 -1.13 0.44 c 0.01 c -1.66 -0.06 c c 0.25 -0.45	(0.1 (0.4 (0.0 (0.1 (0.0 (0.1 (0.0 (0.1 (0.1
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	1.23 1.19 0.58 0.46 0.40 c -0.36 0.30 c 0.98 -0.43 0.25 0.58 m c	(0.18) (0.29) (0.10) (0.30) (0.14) c (0.00) c (0.16) (0.01) (0.18) (0.17) m c (0.19) (0.19) (0.19)	0.81 0.86 0.58 0.03 0.21 c -0.23 0.03 0.50 0.43 -0.64 0.01 0.26 m -0.04 0.36 0.86	(0.11) (0.13) (0.04) (0.10) (0.07) c (0.00) (0.10) (0.11) (0.01) (0.11) (0.13) m (0.09) (0.10) (0.10)	0.27 0.45 -0.23 0.32 0.20 m 0.04 0.05 -0.04 -0.68 -0.21 0.26 -0.74 -0.18 0.09	(0.13) (0.05) (0.11) (0.07) (0.00) m (0.14) (0.02) (0.21) (0.00) (0.12) (0.16) (0.01) (0.06) (0.19) m	-0.85 -0.91 -0.13 -0.69 -0.08 c m -0.27 c -1.02 -0.25 -0.47 -0.32 m c -0.56	(0.24) (0.33) (0.12) (0.33) (0.15) c m (0.17) c (0.28) (0.01) m c (0.20) (0.21) m c	0.83 0.57 0.60 0.28 c -0.25 0.19 0.36 -0.02 0.31 -0.75 0.04 0.45 0.87	(0.10) (0.03) (0.14) (0.05) c (0.00) (0.06) (0.01) (0.10) (0.00) (0.07) (0.10) (0.00) (0.06) (0.09) (0.09)	0.17 -0.70 -0.53 0.73 0.18 -0.23 c c -0.69 c c -0.51 -0.41	(0.19) (0.17) (0.07) (0.42) (0.00) (0.00) c c (0.09) (0.00) c (0.07) (0.09) (0.00) (0.10)	-1.27 -1.13 0.44 c 0.01 c -1.66 -0.06 c c 0.25 -0.45 -0.77 -0.39	(0.1 (0.4 (0.0 (0.1 (0.0 (0.1 (0.1 (0.0
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	1.23 1.19 0.58 0.46 0.40 c -0.36 0.30 c 0.98 -0.43 0.25 0.58 m c	(0.18) (0.29) (0.10) (0.30) (0.14) c (0.00) (0.08) c (0.16) (0.118) (0.17) m c (0.19) (0.041)	0.81 0.86 0.58 0.03 0.21 c -0.23 0.50 0.43 -0.64 0.01 0.26 m -0.04 0.36 0.86 1.74	(0.11) (0.13) (0.04) (0.10) (0.07) c (0.00) (0.10) (0.01) (0.11) (0.00) (0.13) m (0.09) (0.10) (0.10)	0.27 0.45 -0.23 0.32 0.20 m 0.04 -0.05 -0.04 -0.68 -0.21 0.26 -0.74 -0.18 0.09 m	(0.13) (0.05) (0.11) (0.07) (0.00) m (0.14) (0.02) (0.21) (0.00) (0.16) (0.16) (0.01) (0.06) (0.19) m (0.20)	-0.85 -0.91 -0.13 -0.69 -0.08 c m -0.27 c -1.02 -0.25 -0.47 -0.32 m c	(0.24) (0.33) (0.12) (0.33) (0.15) c m (0.17) c (0.28) (0.01) (0.20) (0.21) m c (0.27) m	0.83 0.57 0.60 0.28 c -0.25 0.19 0.36 1.03 -0.63 -0.03 -0.75 0.04 0.45 0.87 1.64	(0.10) (0.03) (0.14) (0.05) C (0.00) (0.06) (0.01) (0.10) (0.00) (0.00) (0.00) (0.06) (0.09) (0.01) (0.01) (0.01)	0.17 -0.70 -0.53 0.73 0.18 -0.23 c -0.62 -0.69 c -0.51 -0.41 -0.32	(0.19) (0.17) (0.07) (0.42) (0.00) (0.00) c c (0.09) (0.00) c c (0.07) (0.09) (0.10) (0.01) (0.35)	-1.27 -1.13 0.44 c 0.01 c -1.66 -0.06 c c 0.25 -0.45 -0.7 -0.39	(0.1 (0.4 (0.0 (0.0 (0.1 (0.0 (0.1 (0.0 (0.3
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	1.23 1.19 0.58 0.46 0.40 c -0.36 0.30 c 0.98 -0.43 0.25 0.58 m c 0.65 0.84	(0.18) (0.29) (0.10) (0.30) (0.14) c (0.00) c (0.16) (0.01) (0.18) (0.17) m c (0.19) (0.19) (0.19)	0.81 0.86 0.58 0.03 0.21 c -0.23 0.03 0.50 0.43 -0.64 0.01 0.26 m -0.04 0.36 0.86	(0.11) (0.13) (0.04) (0.10) (0.07) c (0.00) (0.10) (0.11) (0.01) (0.11) (0.13) m (0.09) (0.10) (0.10)	0.27 0.45 -0.23 0.32 0.20 m 0.04 0.05 -0.04 -0.68 -0.21 0.26 -0.74 -0.18 0.09	(0.13) (0.05) (0.11) (0.07) (0.00) m (0.14) (0.02) (0.21) (0.00) (0.12) (0.16) (0.01) (0.06) (0.19) m	-0.85 -0.91 -0.13 -0.69 -0.08 c m -0.27 c -1.02 -0.25 -0.47 -0.32 m c -0.56	(0.24) (0.33) (0.12) (0.33) (0.15) c m (0.17) c (0.28) (0.01) (0.20) (0.21) m c (0.27) m (0.45) (0.45)	0.83 0.57 0.60 0.28 c -0.25 0.19 0.36 -0.02 0.31 -0.75 0.04 0.45 0.87	(0.10) (0.03) (0.14) (0.05) c (0.00) (0.06) (0.01) (0.10) (0.00) (0.07) (0.10) (0.00) (0.06) (0.09) (0.09)	0.17 -0.70 -0.53 0.73 0.18 -0.23 c c -0.69 c c -0.51 -0.41	(0.19) (0.17) (0.07) (0.42) (0.00) (0.00) c c (0.09) (0.00) c (0.07) (0.09) (0.00) (0.10)	-1.27 -1.13 0.44 c 0.01 c -1.66 -0.06 c c 0.25 -0.45 -0.77 -0.39	(0.1 (0.4 (0.0 (0.1 (0.0 (0.1 (0.1 (0.0 (0.3
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	1.23 1.19 0.58 0.46 0.40 c -0.36 0.30 c 0.98 -0.43 0.25 0.58 m c	(0.18) (0.29) (0.10) (0.30) (0.14) c (0.00) (0.08) c (0.16) (0.01) (0.18) (0.17) m c (0.19) (0.01) (0.01)	0.81 0.86 0.58 0.03 0.21 c -0.23 0.50 0.43 -0.64 0.01 0.26 m -0.04 0.36 0.86 1.74	(0.11) (0.13) (0.04) (0.10) (0.07) c (0.00) (0.10) (0.01) (0.11) (0.00) (0.13) m (0.09) (0.10) (0.10)	0.27 0.45 -0.23 0.32 0.20 m 0.04 -0.05 -0.04 -0.68 -0.21 0.26 -0.74 -0.18 0.09 m	(0.13) (0.05) (0.11) (0.07) (0.00) m (0.14) (0.02) (0.21) (0.00) (0.16) (0.16) (0.01) (0.06) (0.19) m (0.20)	-0.85 -0.91 -0.13 -0.69 -0.08 c m -0.27 c -1.02 -0.25 -0.47 -0.32 m c	(0.24) (0.33) (0.12) (0.33) (0.15) c m (0.17) c (0.28) (0.01) (0.20) (0.21) m c (0.27) m	0.83 0.57 0.60 0.28 c -0.25 0.19 0.36 1.03 -0.63 -0.03 -0.75 0.04 0.45 0.87 1.64	(0.10) (0.03) (0.14) (0.05) C (0.00) (0.06) (0.01) (0.10) (0.00) (0.00) (0.00) (0.06) (0.09) (0.01) (0.01) (0.01)	0.17 -0.70 -0.53 0.73 0.18 -0.23 c -0.62 -0.69 c -0.51 -0.41 -0.32	(0.19) (0.17) (0.07) (0.42) (0.00) (0.00) c c (0.09) (0.00) c c (0.07) (0.09) (0.10) (0.01) (0.35)	-1.27 -1.13 0.44 c 0.01 c -1.66 -0.06 c c 0.25 -0.45 -0.7 -0.39	(0.1 (0.1 (0.0 (0.0 (0.1 (0.0 (0.1 (0.0 (0.3 (0.3
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	1.23 1.19 0.58 0.46 0.40 c -0.36 0.30 c 0.98 -0.43 0.25 0.58 m c 0.65 0.84	(0.18) (0.29) (0.10) (0.30) (0.14) c (0.00) (0.08) c (0.016) (0.017) m c (0.17) m (0.19) (0.01) (0.41)	0.81 0.86 0.58 0.03 0.21 c -0.23 0.03 0.50 0.43 -0.64 0.01 0.26 m -0.04 0.36 0.86 1.74 0.08	(0.11) (0.13) (0.04) (0.10) (0.10) (0.07) c (0.00) (0.10) (0.11) (0.01) (0.13) (0.10) (0.10) (0.10) (0.10) (0.10) (0.10) (0.10) (0.10) (0.10)	0.27 0.45 -0.23 0.32 0.20 m 0.04 -0.04 -0.68 -0.21 0.26 -0.74 -0.18 0.09 m 1.20 -0.25	(0.13) (0.05) (0.11) (0.07) (0.00) m (0.14) (0.02) (0.21) (0.00) (0.12) (0.16) (0.01) (0.06) (0.19) m (0.20) (0.20)	-0.85 -0.91 -0.13 -0.69 -0.08 c m -0.27 c -1.02 -0.25 -0.47 -0.32 m c -0.56 m -0.48	(0.24) (0.33) (0.12) (0.33) (0.15) c m (0.17) c (0.28) (0.01) (0.20) (0.21) m c (0.27) m (0.45) (0.45)	0.83 0.57 0.60 0.28 c -0.25 0.19 0.36 1.03 -0.63 -0.02 0.31 -0.75 0.04 0.45 0.87 1.64 0.48	(0.10) (0.03) (0.14) (0.05) C (0.00) (0.01) (0.10) (0.00) (0.07) (0.10) (0.00) (0.06) (0.09) (0.01) (0.10) (0.10) (0.01) (0.10)	0.17 -0.70 -0.53 0.73 0.18 -0.23 c -0.62 -0.69 c -0.51 -0.41 -0.32 0.47 -0.54	(0.19) (0.17) (0.07) (0.42) (0.00) (0.00) c c (0.09) (0.00) c c (0.07) (0.09) (0.10) (0.01) (0.35) (0.08)	-1.27 -1.13 0.44 c 0.01 c -1.66 -0.06 c c 0.25 -0.45 -0.77 -0.39 -2.18 -0.92	(0.1 (0.4 (0.0 (0.1 (0.0 (0.1 (0.1 (0.0
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	1.23 1.19 0.58 0.46 0.40 0.30 0.5 0.98 -0.43 0.25 0.58 0.65 0.84 1.67 1.04 0.47	(0.18) (0.29) (0.10) (0.10) (0.30) (0.14) c (0.00) (0.08) c (0.16) (0.01) m c (0.19) (0.19) (0.41) (0.30) (0.30) (0.30) (0.14)	0.81 0.86 0.58 0.03 0.21 c -0.23 0.03 0.50 0.43 -0.64 0.01 0.26 m -0.04 0.36 0.86 1.74 0.08 0.46 0.42	(0.11) (0.13) (0.04) (0.04) (0.07) (0.07) (0.00) (0.10) (0.01) (0.11) (0.00) (0.10) (0.10) (0.13) (0.13) (0.13) (0.13)	0.27 0.45 -0.23 0.32 0.20 m 0.04 -0.05 -0.04 -0.68 -0.21 0.26 -0.74 -0.18 0.09 m 1.20 -0.25 -0.02	(0.13) (0.05) (0.11) (0.07) (0.00) m (0.14) (0.02) (0.21) (0.00) (0.12) (0.16) (0.01) (0.06) (0.19) (0.09) (0.09) (0.09) (0.09) (0.09) (0.09) (0.09) (0.09)	-0.85 -0.91 -0.13 -0.69 -0.08 c m -0.27 c -1.02 -0.25 -0.47 -0.32 m c -0.47 -0.32 m -0.48 -0.08 -0.25	(0.24) (0.33) (0.12) (0.33) (0.15) c m (0.17) c (0.28) (0.01) (0.20) (0.21) m c (0.27) m (0.45) (0.32) (0.31) (0.23)	0.83 0.57 0.60 0.28 c -0.25 0.19 0.36 -0.02 0.31 -0.75 0.04 0.45 0.87 1.64 0.42 0.39	(0.10) (0.03) (0.10) (0.03) (0.14) (0.05) c C (0.00) (0.06) (0.01) (0.10) (0.00) (0.07) (0.10) (0.00) (0.06) (0.09) (0.01) (0.10) (0.10) (0.10) (0.10) (0.10) (0.08)	0.17 -0.70 -0.53 0.73 0.18 -0.23 c c -0.69 c c -0.51 -0.41 -0.32 0.47 -0.54 -0.69 0.10	(0.19) (0.17) (0.17) (0.07) (0.07) (0.07) (0.42) (0.00) c c (0.09) (0.00) c c (0.07) (0.09) (0.10) (0.35) (0.08) (0.15) (0.25)	-1.27 -1.13 0.44 c 0.01 c -1.66 -0.06 c c 0.25 -0.45 -0.77 -0.39 -2.18 -0.92 -1.11	(0.1 (0.1 (0.0 (0.1 (0.0 (0.1 (0.1 (0.3 (0.1 (0.1 (0.2
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	1.23 1.19 0.58 0.46 0.40 0.30 0.09 0.43 0.25 0.58 m c 0.65 0.84 1.67	(0.18) (0.29) (0.10) (0.30) (0.14) c (0.00) (0.08) c (0.16) (0.01) (0.17) m c (0.19) (0.01) (0.41) (0.30) (0.30)	0.81 0.86 0.58 0.03 0.21 c -0.23 0.03 0.50 0.43 -0.64 0.01 0.26 m -0.04 0.36 0.86 1.74 0.08 0.46	(0.11) (0.13) (0.04) (0.04) (0.07) (0.07) (0.00) (0.10) (0.01) (0.11) (0.00) (0.10) (0.10) (0.10) (0.10) (0.10) (0.10) (0.10) (0.10) (0.10) (0.10) (0.10) (0.10) (0.10) (0.10)	0.27 0.45 -0.23 0.32 0.20 m 0.04 -0.05 -0.04 -0.68 -0.21 0.26 -0.74 -0.18 0.09 m 1.20 -0.02 -0.02	(0.13) (0.05) (0.11) (0.07) (0.00) m (0.14) (0.02) (0.21) (0.00) (0.12) (0.16) (0.01) (0.06) (0.19) m (0.20) (0.09) (0.09)	-0.85 -0.91 -0.13 -0.69 -0.08 -0.27 -0.25 -0.25 -0.47 -0.32 -0.56 -0.48 -0.48 -0.48 -0.48 -0.48	(0.24) (0.33) (0.12) (0.33) (0.15) c m (0.17) c (0.28) (0.01) (0.20) m c (0.27) m (0.27) m (0.45) (0.32)	0.83 0.57 0.60 0.28 c -0.25 0.19 0.36 1.03 -0.02 0.31 -0.75 0.04 0.45 0.87 1.64 0.48	(0.10) (0.03) (0.14) (0.05) (0.06) (0.06) (0.01) (0.10) (0.07) (0.10) (0.09) (0.09) (0.01) (0.10) (0.10) (0.14) (0.14)	0.17 -0.70 -0.53 0.73 0.18 -0.23 c c -0.62 -0.69 c c -0.51 -0.41 -0.32 0.47 -0.54 -0.44	(0.19) (0.17) (0.07) (0.42) (0.00) (0.00) c c c (0.09) (0.00) c c (0.07) (0.10) (0.11) (0.35) (0.08)	-1.27 -1.13 0.44 c 0.01 c -1.66 -0.06 c c 0.25 -0.45 -0.77 -0.39 -2.18 -0.92	(0.1 (0.1 (0.0 (0.1 (0.0 (0.1 (0.1 (0.1

^{1.} Higher values in the index indicate greater shortage of educational material.
2. The socio-economic profile is measured by the PISA index of economic, social and cultural status.

Note: Values that are statistically significant are indicated in bold (see Annex A3).

*See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 3/3]

Table II.6.2 Index of shortage of educational material¹, science performance and school characteristics

				By educa	tion level			Befor and sch	e accounti ools' socio	ng for stud economic	dents' : profile ²			ng for stud -economi	
		educ	econdary cation ED 2)	educ	econdary cation ED 3)	ISCED 3	- ISCED 2	unit incre index of	score per ase on the shortage cational	in stu perfor	l variance udent mance ed x 100)	Change science s unit increa index of of educ mate	core per use on the shortage ational	in stu	d variance udent rmance red x 100)
		Mean index	S.E.	Mean index	S.E.	Dif.	S.E.	Score dif.	S.E.	%	S.E.	Score dif.	S.E.	%	S.E.
Q /	Australia	-0.37	(0.03)	-0.47	(0.06)	-0.10	(0.06)	-18	(2.8)	2.0	(0.6)	-5	(2.3)	16.7	(1.1)
	Austria	-0.19	(0.33)	-0.27	(0.06)	-0.07	(0.33)	-2	(5.0)	0.0	(0.2)	-1	(4.3)	31.1	(1.8)
	Belgium Canada	-0.56	(0.09)	0.10 -0.45	(0.06) (0.04)	-0.18 0.12	(0.08)	-13 -3	(4.5) (2.4)	1.4 0.1	(0.9)	-2 -1	(3.3)	36.0 11.0	(2.2)
	Chile	0.17	(0.21)	-0.35	(0.04)	-0.52	(0.21)	-20	(4.3)	3.7	(1.6)	-3	(3.7)	26.6	(1.6)
	Czech Republic	-0.17	(0.05)	-0.07	(0.07)	0.10	(0.08)	-9	(4.6)	0.6	(0.7)	-2	(2.7)	33.2	(2.1)
	Denmark	-0.21	(0.08)	С	С	С	С	-3	(2.4)	0.1	(0.2)	-2	(2.2)	12.1	(1.4)
	stonia	0.05	(0.05)	-0.18	(0.13)	-0.24	(0.12)	5	(2.9)	0.3	(0.3)	2	(2.6)	11.0	(1.3)
	Finland France	-0.02	(0.07)	-0.21	(0.07)	-0.19	(0.12)	-7	(3.0)	0.0	(0.1)	0 -4	(2.6)	10.9 37.6	(1.3)
	Germany	0.07	(0.07)	-0.24	(0.27)	-0.30	(0.12)	-4	(5.5)	0.2	(0.5)	-3	(2.6)	35.3	(2.4)
	Greece	0.05	(0.22)	0.41	(0.09)	0.36	(0.24)	0	(3.6)	0.0	(0.2)	5	(2.5)	23.7	(2.8)
	Hungary	0.17	(0.11)	0.55	(0.08)	0.38	(0.14)	-3	(3.9)	0.1	(0.3)	3	(2.1)	43.7	(2.2)
	celand	-0.40	(0.00)	m	m	m	m	-2	(2.4)	0.0	(0.1)	-3	(2.4)	5.0	(0.8)
	reland srael	0.24 0.59	(0.09)	0.26	(0.10) (0.11)	-0.17	(0.04) (0.11)	-6 -10	(2.3) (6.5)	0.7 1.1	(0.5)	-3 -7	(1.8) (4.1)	15.5 24.0	(1.4)
	taly	0.39	(0.10)	0.42	(0.11)	-0.17	(0.11)	-4	(3.6)	0.2	(0.4)	2	(2.4)	24.0	(2.5)
	apan	m	(0.10) m	0.72	(0.07)	m	m	-11	(4.6)	1.5	(1.2)	1	(2.4)	28.1	(2.4)
ŀ	Korea	0.66	(0.18)	0.39	(0.08)	-0.27	(0.19)	-5	(3.9)	0.3	(0.4)	-3	(2.6)	18.0	(2.1)
	_atvia	-0.19	(0.04)	-0.04	(0.09)	0.16	(0.08)	12	(2.0)	1.2	(0.4)	5	(2.2)	12.6	(1.4)
	Luxembourg	-0.11	(0.00)	-0.22	(0.00)	-0.11	(0.00)	-10	(1.3)	0.7	(0.2)	3	(1.3)	34.5	(1.0)
	Mexico Netherlands	-0.20	(0.12)	-0.19	(0.08)	-0.61 0.01	(0.15) (0.14)	-15 -2	(1.8) (8.7)	6.5 0.0	(1.4) (0.4)	-3 0	(1.7) (5.0)	17.6 35.6	(2.0)
	New Zealand	-0.12	(0.03)	-0.09	(0.06)	0.03	(0.05)	-3	(5.2)	0.0	(0.2)	6	(3.0)	20.2	(2.0)
	Norway	0.00	(0.06)	С	C	С	C	-6	(2.7)	0.3	(0.2)	-3	(2.5)	8.8	(0.9)
	Poland [°]	-0.35	(0.07)	С	C	С	C	2	(3.1)	0.0	(0.1)	0	(2.2)	15.1	(1.6)
	Portugal	0.40	(0.10)	-0.05	(0.08)	-0.44	(0.10)	-12	(4.0)	1.8	(1.3)	-5	(2.4)	20.0	(2.1)
	Slovak Republic	-0.23	(0.08)	-0.31	(0.10)	0.07 -0.07	(0.12)	-10	(4.6)	0.1	(0.4)	1 2	(3.1)	30.3 35.5	(2.3)
	Slovenia Spain	0.23	(0.15)	-0.51 C	(0.00) C	-0.07 C	(U.13) C	-7	(1.6)	0.8	(0.4)	0	(1.5)	14.4	(1.3)
	Sweden	-0.28	(0.06)	-0.56	(0.15)	-0.29	(0.16)	-4	(4.3)	0.1	(0.2)	3	(3.2)	16.4	(1.7)
	Switzerland	-0.39	(0.06)	-0.35	(0.09)	0.04	(0.11)	-6	(6.5)	0.2	(0.4)	-5	(4.7)	24.5	(2.1)
	Turkey	0.98	(0.33)	0.11	(0.10)	-0.87	(0.35)	-16	(3.2)	6.4	(2.5)	-6	(2.8)	27.1	(4.1)
	United Kingdom	-0.42	(0.21)	0.04	(0.07)	0.47	(0.23)	5	(3.5)	0.3	(0.4)	2	(1.8)	19.6	(1.8)
	United States DECD average	-0.25	(0.11)	-0.34	(0.06)	-0.09 - 0.11	(0.09)	-12 -6	(4.4)	1.0 0.9	(0.7)	-10 -1	(3.5)	14.8 22.6	(1.6)
_															
ers	Albania Algeria	0.80	(0.12)	0.55	(0.11) (0.16)	-0.25 0.17	(0.15) (0.19)	m 1	m (2.9)	m 0.0	(0.3)	m 3	m (2.5)	9.9	(3.0)
	Brazil	0.17	(0.11)	-0.11	(0.16)	-0.31	(0.19)	-18	(2.6)	5.0	(1.3)	-5	(1.9)	22.1	(2.3)
Z .	B-S-J-G (China)	0.35	(0.12)	0.11	(0.14)	-0.24	(0.17)	-21	(5.3)	5.8	(2.9)	-9	(4.4)	35.5	(2.9)
	Bulgaria	-0.14	(0.24)	-0.26	(0.07)	-0.12	(0.25)	16	(8.6)	1.7	(1.9)	10	(3.5)	39.0	(2.9)
	CABA (Argentina)	-0.07	(0.16)	-0.63	(0.21)	-0.56	(0.24)	-26	(4.2)	11.6	(4.2)	3	(4.5)	32.5	(3.5)
	Colombia	0.80	(0.10)	0.53	(0.09)	-0.28	(0.07)	-13 3	(2.1)	5.1	(1.4)	-5 1	(1.5)	20.6	(2.6)
	Costa Rica Croatia	0.96 c	(0.11) c	1.10 0.87	(0.12) (0.09)	0.14 c	(0.07) c	-4	(1.6)	0.5 0.3	(0.5)	-1	(1.0)	22.6 26.0	(2.2)
	Cyprus*	0.58	(0.03)	-0.11	(0.00)	-0.68	(0.03)	-2	(1.4)	0.1	(0.1)	2	(1.3)	17.2	(0.9)
	Dominican Republic	0.26	(0.15)	0.07	(0.11)	-0.19	(0.18)	-10	(2.5)	2.4	(1.2)	-2	(2.0)	26.0	(3.2)
F	YROM	С	C	-0.08	(0.00)	C	C	-11	(1.4)	1.6	(0.4)	-10	(1.4)	15.4	(1.2)
	Georgia	0.39	(0.07)	0.34	(0.07)	-0.05	(0.06)	-11	(2.8)	1.6	(0.8)	-3	(2.3)	15.4	(1.6)
	Hong Kong (China) Indonesia	-0.26 1.23	(0.08)	-0.23 0.47	(0.07)	0.03 -0.76	(0.06)	10 -11	(6.1)	1.0 4.9	(1.2)	-5	(3.7)	13.5 24.2	(1.9)
	ordan	0.70	(0.09)	m	m	m	(0.17) m	-6	(3.0)	1.0	(0.9)	0	(2.1)	12.4	(2.2)
ŀ	Kosovo	0.66	(0.10)	0.50	(0.01)	-0.16	(0.10)	-8	(1.7)	1.4	(0.6)	-5	(1.3)	14.7	(1.5)
I	-ebanon	0.15	(0.12)	-0.03	(0.10)	-0.18	(0.15)	-15	(3.2)	3.6	(1.7)	-2	(3.0)	19.3	(3.1)
	Lithuania Macao (China)	0.29	(0.05)	0.06	(0.00)	-0.30	(0.00)	4	(2.6) (0.8)	0.2	(0.2)	1 6	(2.0)	21.3	(2.3)
	Malta	0.36 C	(0.00) C	-0.25	(0.00)	-0.30	(0.00) C	-20	(1.7)	2.2	(0.0)	-9	(1.8)	24.9	(1.1)
	Moldova	0.18	(0.06)	0.03	(0.18)	-0.15	(0.18)	-4	(3.7)	0.2	(0.3)	1	(2.7)	14.1	(1.7)
Λ	Montenegro	0.32	(0.30)	0.35	(0.00)	0.03	(0.30)	-1	(1.1)	0.0	(0.0)	-4	(1.2)	17.3	(0.9)
	Peru	0.78	(0.09)	0.42	(0.08)	-0.36	(0.07)	-14	(2.1)	6.5	(1.8)	0	(1.4)	29.7	(2.2)
	Qatar Romania	-0.65 -0.03	(0.01)	-0.65 m	(0.00) m	0.00 m	(0.01) m	-8 -6	(1.1)	0.4 0.4	(0.1)	-3 0	(1.1)	14.1 23.2	(0.6)
	Russia	0.30	(0.10)	0.36	(0.15)	0.06	(0.12)	-6	(2.9)	0.4	(0.7)	-3	(2.0)	10.0	(1.8)
5	Singapore	-0.70	(0.08)	-0.74	(0.01)	-0.04	(0.07)	-13	(2.1)	0.6	(0.2)	-4	(2.5)	26.1	(1.6)
(Chinese Taipei	-0.02	(0.06)	-0.16	(0.07)	-0.14	(0.09)	-3	(5.5)	0.1	(0.2)	8	(3.2)	28.7	(2.5)
	[hailand	0.47	(0.09)	0.29	(0.09)	-0.18	(0.09)	-10	(3.1)	1.7	(1.1)	0	(2.8)	18.6	(3.2)
	Frinidad and Tobago	0.85	(0.01)	0.86	(0.01)	0.00	(0.02)	-2	(1.2)	0.1	(0.1)	1	(1.1)	36.0	(1.1)
	Tunisia United Arab Emirates	1.69 0.13	(0.15)	1.54 -0.08	(0.14) (0.08)	-0.16 - 0.21	(0.20)	-3 -16	(2.6)	0.3 4.4	(0.5)	-1 -7	(2.4)	18.3 16.3	(3.6)
	Jruguay	0.13	(0.10)	0.12	(0.08)	-0.21	(0.11)	-13	(2.1)	3.0	(1.1)	-2	(2.0)	26.3	(1.8)
	viet Nam	0.54	(0.13)	0.37	(0.09)	-0.17	(0.16)	-6	(3.6)	0.6	(0.8)	-3	(2.7)	19.8	(4.3)
F	Argentina**	0.42	(0.10)	0.31	(0.11)	-0.12	(0.10)	-17	(2.4)	6.2	(1.7)	-8	(2.1)	20.4	(2.1)
ŀ	Kazakhstan**	0.25	(0.09)	0.25	(0.11)	0.00	(0.08)	3	(4.5)	0.1	(0.5)	4	(3.5)	9.0	(2.4)
	Malaysia**	0.03	(0.16)	-0.02	(0.06)	-0.05	(0.15)	-9	(3.6)	1.0	(0.8)	-5	(2.6)	18.5	(2.3)

^{1.} Higher values in the index indicate greater shortage of educational material.
2. The socio-economic profile is measured by the PISA index of economic, social and cultural status.

Note: Values that are statistically significant are indicated in bold (see Annex A3).

*See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink *** Indicated in the profile of the pr



[Part 1/1]

Table II.6.4 Computers at school

	Number of comp	iters per student	Percentage of computers	connected to the Internet
	Mean ratio	S.E.	%	S.E.
Australia	1.52	(0.05)	99.1	(0.2)
Austria	1.10	(0.05)	98.7	(0.5)
Belgium	0.90	(0.04)	97.1	(0.9)
Canada	1.05	(0.04)	99.2	(0.3)
Chile	0.65	(0.04)	93.3	(1.7)
Czech Republic	1.02	(0.04)	99.0	(0.5)
Denmark	0.94		99.9	
		(0.04)		(0.1)
Estonia	0.78	(0.03)	99.0	(0.5)
Finland	0.79	(0.05)	80.4	(2.4)
France	0.81	(0.05)	97.7	(0.5)
Germany	0.55	(0.03)	96.4	(0.9)
Greece	0.25	(0.01)	98.1	(0.5)
Hungary	0.75	(0.05)	98.2	(0.7)
Iceland	1.49	(0.01)	95.8	(0.1)
Ireland	0.66	(0.03)	98.0	(0.6)
Israel	0.43	(0.03)	85.4	(2.6)
Italy	0.50	(0.03)	95.8	(1.5)
Japan	0.51	(0.03)	94.0	(1.3)
Korea	0.37	(0.02)	98.4	(0.6)
Latvia	0.90	(0.02)	98.9	(0.3)
Luxembourg	0.87	(0.00)	98.6	(0.0)
Mexico	0.29	(0.02)	79.2	(2.5)
Netherlands	0.63	(0.03)	99.2	(0.4)
New Zealand	1.12	(0.06)	99.5	(0.2)
Norway	0.86	(0.03)	99.7	(0.2)
Poland	0.46	(0.02)	99.3	(0.4)
Portugal	0.43	(0.03)	97.9	(0.7)
Slovak Republic	0.43	(0.03)	97.6	(0.7)
Slovenia	0.59	(0.00)	99.3	(0.0)
Spain	0.74	(0.04)	98.8	(0.6)
Sweden	0.91	(0.03)	99.1	(0.6)
Switzerland	0.72	(0.07)	99.1	(0.3)
Turkey	0.16	(0.02)	89.3	(2.4)
United Kingdom	1.03	(0.05)	98.4	(0.5)
United States	1.22	(0.14)	98.0	(0.8)
OECD average	0.77	(0.01)	96.4	(0.2)
Albania	0.15	(0.03)	65.7	(2.9)
	0.10	(0.01)	66.8	(4.0)
Algeria				
Brazil	0.20	(0.02)	93.5	(1.2)
B-S-J-G (China)	0.35	(0.03)	96.1	(1.0)
Bulgaria	0.58	(0.02)	97.8	(0.7)
CABA (Argentina)	0.70	(0.04)	84.5	(4.2)
Colombia	0.95	(0.06)	65.0	(2.8)
Costa Rica	0.95 0.45		84.5	(2.8) (2.5)
Costa Rica	0.45	(0.06) (0.04)	84.5	(2.5)
Costa Rica Croatia	0.45 0.31	(0.06) (0.04) (0.01)	84.5 97.5	(2.5) (0.8)
Costa Rica Croatia Cyprus*	0.45 0.31 0.68	(0.06) (0.04) (0.01) (0.00)	84.5 97.5 94.3	(2.5) (0.8) (0.0)
Costa Rica Croatia Cyprus* Dominican Republic	0.45 0.31 0.68 0.20	(0.06) (0.04) (0.01) (0.00) (0.02)	84.5 97.5 94.3 70.4	(2.5) (0.8) (0.0) (4.3)
Costa Rica Croatia Cyprus* Dominican Republic FYROM	0.45 0.31 0.68 0.20 0.63	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00)	84.5 97.5 94.3 70.4 94.5	(2.5) (0.8) (0.0) (4.3) (0.1)
Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia	0.45 0.31 0.68 0.20 0.63 0.30	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03)	84.5 97.5 94.3 70.4 94.5 95.6	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9)
Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China)	0.45 0.31 0.68 0.20 0.63 0.30 0.87	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.03)	84.5 97.5 94.3 70.4 94.5 95.6 99.3	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4)
Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia	0.45 0.31 0.68 0.20 0.63 0.30 0.87 0.14	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.03) (0.03)	84.5 97.5 94.3 70.4 94.5 95.6 99.3 65.8	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4) (3.2)
Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan	0.45 0.31 0.68 0.20 0.63 0.30 0.87 0.14	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.03) (0.01) (0.03)	84.5 97.5 94.3 70.4 94.5 95.6 99.3 65.8 77.7	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4) (3.2) (2.3)
Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo	0.45 0.31 0.68 0.20 0.63 0.30 0.87 0.14 0.44 0.14	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.03) (0.01) (0.03)	84.5 97.5 94.3 70.4 94.5 95.6 99.3 65.8 77.7 29.2	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4) (3.2) (2.3) (1.2)
Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon	0.45 0.31 0.68 0.20 0.63 0.30 0.87 0.14 0.44 0.14 0.41	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.03) (0.01) (0.03) (0.01) (0.03)	84.5 97.5 94.3 70.4 94.5 95.6 99.3 65.8 77.7 29.2 53.8	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4) (3.2) (2.3) (1.2) (3.7)
Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo	0.45 0.31 0.68 0.20 0.63 0.30 0.87 0.14 0.44 0.14	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.03) (0.01) (0.03)	84.5 97.5 94.3 70.4 94.5 95.6 99.3 65.8 77.7 29.2	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4) (3.2) (2.3) (1.2)
Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon	0.45 0.31 0.68 0.20 0.63 0.30 0.87 0.14 0.44 0.14 0.41	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.03) (0.01) (0.03) (0.01) (0.03)	84.5 97.5 94.3 70.4 94.5 95.6 99.3 65.8 77.7 29.2 53.8	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4) (3.2) (2.3) (1.2) (3.7)
Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hodonesia Jordan Kosovo Lebanon Lithuania Macao (China)	0.45 0.31 0.68 0.20 0.63 0.30 0.87 0.14 0.44 0.14 0.41 0.48 1.20	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.01) (0.03) (0.01) (0.04) (0.04) (0.06) (0.00)	84.5 97.5 94.3 70.4 94.5 95.6 99.3 65.8 77.7 29.2 53.8 97.8 99.0	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4) (3.2) (2.3) (1.2) (3.7) (0.7)
Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta	0.45 0.31 0.68 0.20 0.63 0.30 0.87 0.14 0.44 0.14 0.41 0.88 1.20 0.56	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.03) (0.01) (0.03) (0.01) (0.04) (0.06) (0.00)	84.5 97.5 94.3 70.4 94.5 95.6 99.3 65.8 77.7 29.2 53.8 97.8 99.0 100.0	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4) (3.2) (2.3) (1.2) (3.7) (0.7) (0.0) (0.0)
Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova	0.45 0.31 0.68 0.20 0.63 0.30 0.87 0.14 0.44 0.14 0.41 0.88 1.20 0.56	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.03) (0.01) (0.03) (0.01) (0.04) (0.06) (0.00) (0.00) (0.00)	84.5 97.5 94.3 70.4 94.5 95.6 99.3 65.8 77.7 29.2 53.8 97.8 99.0 100.0 70.8	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4) (3.2) (2.3) (1.2) (3.7) (0.7) (0.0) (0.0) (2.4)
Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro	0.45 0.31 0.68 0.20 0.63 0.30 0.87 0.14 0.44 0.14 0.41 0.88 1.20 0.56 0.50 0.20	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.03) (0.01) (0.03) (0.01) (0.04) (0.06) (0.00) (0.00) (0.00)	84.5 97.5 94.3 70.4 94.5 95.6 99.3 65.8 77.7 29.2 53.8 97.8 99.0 100.0 70.8 87.3	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4) (3.2) (2.3) (1.2) (3.7) (0.7) (0.0) (0.0) (2.4) (0.3)
Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru	0.45 0.31 0.68 0.20 0.63 0.30 0.87 0.14 0.44 0.14 0.41 0.48 1.20 0.56 0.50 0.20 0.41	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.01) (0.03) (0.01) (0.04) (0.06) (0.00) (0.00) (0.00) (0.02) (0.00) (0.03)	84.5 97.5 94.3 70.4 94.5 95.6 99.3 65.8 77.7 29.2 53.8 97.8 99.0 100.0 70.8 87.3 60.3	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4) (3.2) (2.3) (1.2) (3.7) (0.7) (0.0) (0.0) (2.4) (0.3) (2.7)
Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar	0.45 0.31 0.68 0.20 0.63 0.30 0.87 0.14 0.44 0.14 0.41 0.88 1.20 0.56 0.50 0.20 0.41 0.71	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.01) (0.03) (0.01) (0.04) (0.06) (0.00) (0.00) (0.02) (0.00) (0.03)	84.5 97.5 94.3 70.4 94.5 95.6 99.3 65.8 77.7 29.2 53.8 97.8 99.0 100.0 70.8 87.3 60.3 91.3	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4) (3.2) (2.3) (1.2) (3.7) (0.7) (0.0) (0.0) (2.4) (0.3) (2.7) (0.0)
Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania	0.45 0.31 0.68 0.20 0.63 0.30 0.87 0.14 0.44 0.14 0.41 0.88 1.20 0.56 0.50 0.20 0.41 0.71 0.56	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.03) (0.01) (0.03) (0.01) (0.04) (0.06) (0.00) (0.00) (0.02) (0.00) (0.03)	84.5 97.5 94.3 70.4 94.5 95.6 99.3 65.8 77.7 29.2 53.8 97.8 99.0 100.0 70.8 87.3 60.3 91.3 96.4	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4) (3.2) (2.3) (1.2) (3.7) (0.7) (0.0) (0.0) (2.4) (0.3) (2.7) (0.0) (0.0) (0.9)
Costa Rica Croatia Cryprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Rosova Losta Romania Russia	0.45 0.31 0.68 0.20 0.63 0.30 0.87 0.14 0.44 0.14 0.41 0.88 1.20 0.56 0.50 0.20 0.41 0.71 0.56 0.64	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.03) (0.01) (0.03) (0.01) (0.04) (0.06) (0.00) (0.00) (0.00) (0.03)	84.5 97.5 94.3 70.4 94.5 95.6 99.3 65.8 77.7 29.2 53.8 97.8 99.0 100.0 70.8 87.3 60.3 91.3 96.4 88.9	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4) (3.2) (2.3) (1.2) (3.7) (0.7) (0.0) (0.0) (2.4) (0.3) (2.7) (0.0) (0.9) (2.0)
Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania	0.45 0.31 0.68 0.20 0.63 0.30 0.87 0.14 0.44 0.14 0.41 0.88 1.20 0.56 0.50 0.20 0.41 0.71 0.56	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.03) (0.01) (0.03) (0.01) (0.04) (0.06) (0.00) (0.00) (0.02) (0.00) (0.03)	84.5 97.5 94.3 70.4 94.5 95.6 99.3 65.8 77.7 29.2 53.8 97.8 99.0 100.0 70.8 87.3 60.3 91.3 96.4	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4) (3.2) (2.3) (1.2) (3.7) (0.7) (0.0) (0.0) (2.4) (0.3) (2.7) (0.0) (0.0) (0.9)
Costa Rica Croatia Croatia Cyprus* Dominican Republic FYROM Georgia Hodonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore	0.45 0.31 0.68 0.20 0.63 0.30 0.87 0.14 0.44 0.14 0.41 0.88 1.20 0.56 0.50 0.20 0.41 0.71 0.56 0.64	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.01) (0.03) (0.01) (0.04) (0.06) (0.00) (0.00) (0.02) (0.00) (0.03) (0.00) (0.03) (0.01)	84.5 97.5 94.3 70.4 94.5 95.6 99.3 65.8 77.7 29.2 53.8 97.8 99.0 100.0 70.8 87.3 60.3 91.3 96.4 88.9	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4) (3.2) (2.3) (1.2) (3.7) (0.7) (0.0) (0.0) (2.4) (0.3) (2.7) (0.0) (0.9) (2.0) (0.0)
Costa Rica Croatia Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei	0.45 0.31 0.68 0.20 0.63 0.30 0.87 0.14 0.44 0.14 0.41 0.88 1.20 0.56 0.50 0.20 0.41 0.71 0.56 0.64 0.97 0.47	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.01) (0.03) (0.01) (0.04) (0.06) (0.00) (0.00) (0.02) (0.00) (0.03) (0.01) (0.04) (0.06) (0.00) (0.02) (0.03) (0.01) (0.03)	84.5 97.5 94.3 70.4 94.5 95.6 99.3 65.8 77.7 29.2 53.8 97.8 99.0 100.0 70.8 87.3 60.3 91.3 96.4 88.9 99.6 96.4	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4) (3.2) (2.3) (1.2) (3.7) (0.7) (0.0) (0.0) (2.4) (0.3) (2.7) (0.0) (0.9) (2.0) (0.9)
Costa Rica Croatia Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand	0.45 0.31 0.68 0.20 0.63 0.30 0.87 0.14 0.44 0.14 0.41 0.88 1.20 0.56 0.50 0.20 0.41 0.71 0.56 0.64 0.97 0.47	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.03) (0.01) (0.03) (0.01) (0.04) (0.06) (0.00) (0.00) (0.02) (0.00) (0.03) (0.01) (0.04) (0.00) (0.02) (0.00) (0.03) (0.01)	84.5 97.5 94.3 70.4 94.5 95.6 99.3 65.8 77.7 29.2 53.8 97.8 99.0 100.0 70.8 87.3 60.3 91.3 96.4 88.9 99.6 96.4	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4) (3.2) (2.3) (1.2) (3.7) (0.7) (0.0) (0.0) (2.4) (0.3) (2.7) (0.0) (0.9) (2.0) (0.0) (0.9) (0.9) (0.9) (0.9) (0.9)
Costa Rica Croatia Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	0.45 0.31 0.68 0.20 0.63 0.30 0.87 0.14 0.44 0.14 0.41 0.88 1.20 0.56 0.50 0.20 0.41 0.71 0.56 0.64 0.97 0.47 0.40 0.56	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.03) (0.01) (0.03) (0.01) (0.04) (0.06) (0.00) (0.00) (0.02) (0.00) (0.03) (0.00) (0.03) (0.00) (0.03) (0.01)	84.5 97.5 94.3 70.4 94.5 95.6 99.3 65.8 77.7 29.2 53.8 97.8 99.0 100.0 70.8 87.3 60.3 91.3 96.4 88.9 99.6 96.4 95.1 74.3	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4) (3.2) (2.3) (1.2) (3.7) (0.7) (0.0) (0.0) (2.4) (0.3) (2.7) (0.0) (0.9) (2.0) (0.0) (0.9) (0.0) (0.9) (0.8) (0.2)
Costa Rica Croatia Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	0.45 0.31 0.68 0.20 0.63 0.30 0.87 0.14 0.44 0.14 0.41 0.88 1.20 0.56 0.50 0.20 0.41 0.71 0.56 0.64 0.97 0.47 0.40 0.56 0.16	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.03) (0.01) (0.03) (0.01) (0.04) (0.06) (0.00) (0.00) (0.02) (0.00) (0.03) (0.00) (0.04) (0.03) (0.01) (0.03) (0.01)	84.5 97.5 94.3 70.4 94.5 95.6 99.3 65.8 77.7 29.2 53.8 97.8 99.0 100.0 70.8 87.3 60.3 91.3 96.4 88.9 99.6 96.4 95.1 74.3 66.3	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4) (3.2) (2.3) (1.2) (3.7) (0.7) (0.0) (0.0) (2.4) (0.3) (2.7) (0.0) (0.9) (2.0) (0.0) (0.9) (0.8) (0.2) (3.8)
Costa Rica Croatia Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	0.45 0.31 0.68 0.20 0.63 0.30 0.87 0.14 0.44 0.14 0.41 0.88 1.20 0.56 0.50 0.20 0.41 0.71 0.56 0.64 0.97 0.47 0.40 0.56 0.16 0.71	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.01) (0.03) (0.01) (0.04) (0.06) (0.00) (0.02) (0.00) (0.02) (0.00) (0.03) (0.01) (0.03) (0.01)	84.5 97.5 94.3 70.4 94.5 95.6 99.3 65.8 77.7 29.2 53.8 97.8 99.0 100.0 70.8 87.3 60.3 91.3 96.4 88.9 99.6 96.4 95.1 74.3 66.3 90.7	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4) (3.2) (2.3) (1.2) (3.7) (0.7) (0.0) (0.0) (2.4) (0.3) (2.7) (0.0) (0.9) (2.0) (0.0) (0.9) (0.8) (0.2) (3.8) (2.0)
Costa Rica Croatia Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	0.45 0.31 0.68 0.20 0.63 0.30 0.87 0.14 0.44 0.14 0.41 0.88 1.20 0.56 0.50 0.20 0.41 0.71 0.56 0.64 0.97 0.47 0.40 0.56 0.16 0.71 0.28	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.03) (0.01) (0.04) (0.06) (0.00) (0.02) (0.00) (0.03) (0.01) (0.04) (0.06) (0.00) (0.02) (0.00) (0.03) (0.04) (0.03) (0.01) (0.03) (0.01)	84.5 97.5 94.3 70.4 94.5 95.6 99.3 65.8 77.7 29.2 53.8 97.8 99.0 100.0 70.8 87.3 60.3 91.3 96.4 88.9 99.6 96.4 97.7 99.6 96.4 99.7 99.7	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4) (3.2) (2.3) (1.2) (3.7) (0.7) (0.0) (0.0) (2.4) (0.3) (2.7) (0.0) (0.9) (2.0) (0.0) (0.9) (2.0) (0.9) (3.8) (0.2) (3.8) (2.0) (1.2)
Costa Rica Croatia Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	0.45 0.31 0.68 0.20 0.63 0.30 0.87 0.14 0.44 0.14 0.41 0.88 1.20 0.56 0.50 0.20 0.41 0.71 0.56 0.64 0.97 0.47 0.40 0.56 0.16 0.71	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.01) (0.03) (0.01) (0.04) (0.06) (0.00) (0.02) (0.00) (0.02) (0.00) (0.03) (0.01) (0.03) (0.01)	84.5 97.5 94.3 70.4 94.5 95.6 99.3 65.8 77.7 29.2 53.8 97.8 99.0 100.0 70.8 87.3 60.3 91.3 96.4 88.9 99.6 96.4 95.1 74.3 66.3 90.7	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4) (3.2) (2.3) (1.2) (3.7) (0.7) (0.0) (0.0) (2.4) (0.3) (2.7) (0.0) (0.9) (2.0) (0.0) (0.9) (0.8) (0.2) (3.8) (2.0)
Costa Rica Croatia Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	0.45 0.31 0.68 0.20 0.63 0.30 0.87 0.14 0.44 0.14 0.41 0.88 1.20 0.56 0.50 0.20 0.41 0.71 0.56 0.64 0.97 0.47 0.40 0.56 0.16 0.71 0.28 0.28	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.03) (0.01) (0.04) (0.06) (0.00) (0.02) (0.00) (0.03) (0.01) (0.04) (0.02) (0.00) (0.03) (0.01) (0.03) (0.01) (0.03) (0.01) (0.03) (0.01) (0.03) (0.01) (0.03) (0.01) (0.03) (0.01) (0.03) (0.01) (0.03) (0.01) (0.03) (0.01) (0.03) (0.01) (0.03) (0.01) (0.03) (0.01) (0.03) (0.04) (0.03) (0.01) (0.03) (0.04) (0.03) (0.01) (0.03) (0.04) (0.03) (0.01) (0.03) (0.04) (0.03) (0.04) (0.03) (0.04) (0.04) (0.05) (0.06) (0.00) (0.00) (0.01) (0.01) (0.02) (0.00) (0.03) (0.04) (0.04) (0.05) (0.00) (0.01) (0.01) (0.02) (0.02) (0.03) (0.04) (0.03) (0.04) (0.03) (0.04) (0.03) (0.04) (0.03) (0.04) (0.03) (0.01) (0.03) (0.01) (0.03) (0.01) (0.03) (0.01) (0.03) (0.01) (0.03) (0.01) (0.03) (0.01) (0.03) (0.03) (0.03) (0.04) (0.03) (0.03) (0.04) (0.03) (0.04) (0.03) (0.04) (0.03) (0.04) (0.03) (0.04) (0.04) (0.04) (0.04) (0.04) (0.04) (0.04) (0.04) (0.04) (0.05) (0.04)	84.5 97.5 94.3 70.4 94.5 95.6 99.3 65.8 77.7 29.2 53.8 97.8 99.0 100.0 70.8 87.3 60.3 91.3 96.4 88.9 99.6 96.4 97.7 99.6 99.6 99.6 90.7 90.7 90.7	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4) (3.2) (2.3) (1.2) (3.7) (0.7) (0.0) (0.0) (2.4) (0.3) (2.7) (0.0) (0.9) (2.0) (0.0) (0.9) (2.0) (0.0) (0.9) (2.0) (0.1) (0.1)
Costa Rica Croatia Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	0.45 0.31 0.68 0.20 0.63 0.30 0.87 0.14 0.44 0.14 0.41 0.88 1.20 0.56 0.50 0.20 0.41 0.71 0.56 0.64 0.97 0.47 0.40 0.56 0.16 0.71 0.28	(0.06) (0.04) (0.01) (0.00) (0.02) (0.00) (0.03) (0.03) (0.01) (0.04) (0.06) (0.00) (0.02) (0.00) (0.03) (0.01) (0.04) (0.06) (0.00) (0.02) (0.00) (0.03) (0.04) (0.03) (0.01) (0.03) (0.01)	84.5 97.5 94.3 70.4 94.5 95.6 99.3 65.8 77.7 29.2 53.8 97.8 99.0 100.0 70.8 87.3 60.3 91.3 96.4 88.9 99.6 96.4 97.7 99.6 96.4 99.7 99.7	(2.5) (0.8) (0.0) (4.3) (0.1) (0.9) (0.4) (3.2) (2.3) (1.2) (3.7) (0.7) (0.0) (0.0) (2.4) (0.3) (2.7) (0.0) (0.9) (2.0) (0.0) (0.9) (2.0) (0.9) (3.8) (0.2) (3.8) (2.0) (1.2)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** http://dx.doi.org/10.1787/888933436513



[Part 1/3]

Table II.6.7 Students per school (school size), science performance and school characteristics

			All st	tudents					By sch	ool socio	-economic	profile ¹			
		Av	erage	Var	iability	Bottor	n quarter	Secon	d quarter	Third	quarter	Тор	quarter		bottom arter
		Mean	S.E.	S.D.	S.E.	Mean	S.E.	Mean	S.E.	Mean	S.E.	Mean	S.E.	Dif.	S.E
Australia		1 034	(14.1)	461	(16.2)	895	(29.2)	936	(37.7)	1 078	(38.7)	1 220	(35.0)	324	(43.8
Austria		m	m	m	m	m	m	m	m	m	m	m	m	m	r
Belgium		734	(20.3)	341	(18.2)	532	(29.5)	728	(47.7)	736	(47.8)	919	(43.6)	387	(52.4
Canada		952	(18.5)	466	(12.5)	737	(48.4)	947	(73.3)	1 049	(51.1)	1 045	(40.7)	308	(68.1
Chile		1 005	(47.8)	636	(69.4)	698	(92.3)	1 001	(74.4)	1 147	(125.1)	1 183	(111.5)	485	(148.6
Czech Repu	olic	466	(14.4)	237 307	(11.7)	414	(29.5)	513	(32.3)	442 614	(41.5)	497	(18.5)	83	(34.5
Denmark		557	(14.7)		(12.0)	529	(38.4)	569	(46.6)		(39.5)	516	(39.3)	-13	(53.8
Estonia Finland		569 437	(11.5) (13.9)	337	(5.3) (11.2)	258 334	(31.9)	507 485	(29.8)	682 428	(32.3)	811 501	(27.0)	553 167	(40.4
France		879	(20.0)	493	(18.6)	508	(44.0)	818	(75.5)	1 063	(66.2)	1 108	(47.8)	600	(62.0
Germany		748	(25.2)	485	(71.1)	540	(64.6)	702	(81.0)	853	(76.9)	896	(29.2)	357	(70.4
Greece		267	(7.7)	127	(5.7)	264	(30.7)	255	(26.6)	281	(18.5)	269	(16.3)	5	(36.
Hungary		466	(18.3)	266	(15.9)	361	(36.8)	436	(39.1)	532	(39.6)	527	(37.0)	166	(51.4
Iceland		413	(0.9)	181	(0.5)	298	(1.8)	455	(4.1)	495	(4.7)	410	(1.3)	111	(2.:
Ireland		624	(14.3)	266	(12.0)	443	(22.8)	613	(53.6)	715	(47.5)	727	(49.3)	284	(54.
Israel		731	(19.7)	502	(16.2)	614	(49.6)	637	(68.6)	716	(96.7)	963	(70.0)	349	(83.
Italy		871	(25.5)	408	(17.3)	796	(57.8)	776	(76.1)	902	(59.1)	993	(37.7)	198	(73.
Japan		760	(19.1)	392	(23.5)	582	(69.5)	693	(39.1)	824	(61.5)	940	(46.6)	357	(80.
Korea		944	(14.3)	352	(10.3)	808	(51.3)	852	(42.9)	1 029	(47.7)	1 086	(47.5)	279	(67.
Latvia		513	(7.2)	328	(4.4)	243	(23.7)	481	(26.0)	580	(26.5)	731	(24.2)	488	(34.
Luxembourg		1 380	(1.0)	552	(0.6)	1 481	(3.3)	1 509	(2.1)	1 241	(2.2)	1 288	(1.9)	-193	(4.
Mexico		931	(38.1)	1 128	(92.0)	262	(21.7)	654	(80.7)	1 324	(174.0)	1 479	(154.7)	1 218	(160.
Netherlands		1 068	(46.3)	594	(44.3)	841	(122.4)	983	(150.5)	1 147	(131.2)	1 311	(94.2)	469	(163.
New Zealan	d	1 178	(21.1)	675	(12.0)	727	(56.9)	1 100	(75.9)	1 367	(72.4)	1 458	(62.9)	731	(88.
Norway		348	(10.4)	147	(8.3)	310	(20.0)	294	(22.8)	367	(34.0)	423	(17.6)	113	(29.
Poland [']		280	(8.9)	158	(8.3)	210	(20.6)	237	(22.3)	296	(19.9)	379	(23.7)	170	(32.
Portugal		1 758	(57.9)	878	(33.8)	1 432	(133.0)	1 709	(139.1)	1 859	(143.7)	2 051	(133.2)	618	(204.
Slovak Repu	blic	418	(12.7)	210	(10.9)	333	(25.4)	411	(26.0)	441	(27.9)	493	(33.2)	160	(40.
Slovenia		500	(2.7)	285	(4.3)	427	(16.7)	544	(7.1)	419	(10.5)	609	(2.0)	182	(16.
Spain		750	(24.1)	426	(33.0)	554	(46.4)	599	(62.0)	814	(69.1)	1 061	(70.9)	507	(86.
Sweden		396	(13.6)	218	(14.1)	357	(24.4)	374	(32.1)	371	(34.5)	484	(41.4)	127	(46.
Switzerland		713	(52.9)	853	(197.2)	512	(78.7)	800	(139.5)	811	(262.0)	730	(66.2)	218	(104.
Turkey		822	(36.4)	540	(33.9)	696	(87.2)	1 055	(95.1)	843	(90.3)	693	(64.3)	-3	(104.
United King	dom	1 071	(31.4)	405	(24.8)	963	(66.2)	1 003	(87.2)	1 096	(75.2)	1 208	(66.6)	245	(97.
United State	s	1 325	(61.6)	879	(50.9)	1 385	(170.7)	1 448	(136.5)	1 092	(122.9)	1 359	(132.2)	-26	(214.
OECD avera	ge	762	(4.6)	434	(7.8)	598	(10.5)	739	(12.0)	813	(14.4)	893	(10.7)	295	(15.
Albania		271	(32.7)	344	(16.5)	209	(58.9)	296	(71.3)	317	(88.1)	286	(56.5)	78	(81.
Algeria		637	(25.7)	285	(30.5)	517	(28.9)	561	(39.6)	636	(45.0)	831	(81.2)	313	(83.
Brazil		919	(31.9)	602	(52.0)	785	(46.1)	814	(54.7)	1 096	(75.4)	970	(93.2)	185	(102.
B-S-J-G (Chi	na)	2 590	(161.9)	2 209	(203.2)	1 679	(184.9)	3 099	(479.3)	3 189	(396.6)	2 393	(311.1)	714	(359.
Bulgaria	144)	615	(23.4)	353	(23.3)	345	(25.8)	493	(39.9)	779	(60.5)	860	(57.5)	514	(62.
CABA (Arge	ntina)	775	(80.4)	667	(94.5)	659	(60.5)	736	(159.8)	998	(469.2)	743	(353.3)	84	(353.
Colombia	,	1 275	(61.3)	1 021	(76.4)	772	(97.8)	1 239	(100.0)	1 825	(180.9)	1 199	(156.0)	427	(184.
Costa Rica		770	(23.3)	484	(16.0)	742	(74.6)	595	(70.4)	738	(53.3)	1 007	(56.9)	265	(87.
Croatia		599	(14.3)	238	(10.7)	587	(32.2)	576	(39.8)	594	(31.5)	639	(36.0)	52	(47.
Cyprus*		538	(0.6)	196	(0.4)	461	(1.5)	494	(1.6)	524	(2.1)	671	(1.6)	210	(2.
Dominican	Republic	620	(29.8)	433	(45.3)	509	(47.4)	630	(89.8)	715	(67.9)	635	(65.1)	126	(81.
FYROM		1 011	(1.9)	633	(0.9)	791	(11.7)	897	(12.0)	1 442	(15.3)	979	(2.3)	188	(12.
Georgia		613	(22.4)	499	(31.9)	287	(23.5)	499	(49.4)	669	(54.9)	1 020	(68.5)	733	(69.
Hong Kong	China)	841	(20.5)	224	(44.2)	714	(29.9)	800	(30.4)	837	(23.4)	1 015	(68.5)	302	(74.
Indonesia		650	(110.3)	1 415	(656.5)	341	(101.3)	497	(57.7)	603	(64.9)	1 126	(402.5)	785	(411.
Jordan		657	(18.3)	340	(14.6)	557	(49.7)	644	(52.1)	732	(57.3)	689	(49.6)	132	(69.
Kosovo		1 018	(9.6)	571	(7.9)	760	(23.7)	995	(39.9)	1 014	(39.0)	1 301	(48.8)	542	(60.
Lebanon		669	(36.0)	668	(49.6)	371	(38.3)	452	(63.3)	794	(78.6)	1 103	(115.8)	732	(121.
Lithuania		533	(11.0)	260	(13.2)	301	(16.1)	522	(25.4)	598	(25.3)	712	(33.6)	411	(34.
Macao (Chir	ıa)	1 807	(1.5)	956	(0.7)	1 497	(2.3)	2 318	(3.6)	1 802	(3.6)	1 609	(2.0)	112	(2.
Malta		462	(0.4)	207	(0.3)	388	(1.0)	555	(1.7)	446	(1.7)	460	(0.5)	72	(1.
Moldova		431	(15.0)	331	(19.3)	214	(21.0)	298	(23.8)	440	(33.3)	777	(48.5)	564	(53.
Montenegro		832	(3.4)	390	(2.0)	744	(10.0)	810	(7.1)	750	(5.9)	1 026	(5.2)	282	(11.
Peru		725	(34.7)	617	(40.5)	300	(42.3)	754	(81.3)	1 028	(120.4)	820	(86.3)	520	(91.
Qatar		1 632	(4.7)	2 107	(6.1)	1 391	(25.0)	2 589	(25.3)	1 346	(8.0)	1 181	(8.6)	-210	(27.
Romania		838	(31.6)	423	(25.0)	684	(62.5)	840	(85.4)	878	(57.8)	948	(54.7)	264	(80.
Russia		752	(40.9)	474	(46.6)	328	(45.1)	734	(52.9)	798	(66.7)	1 159	(122.6)	831	(123.
Singapore		1 232	(16.6)	480	(21.9)	992	(1.5)	1 125	(6.6)	1 218	(10.3)	1 583	(66.4)	591	(67.
Chinese Taip	ei	2 291	(61.7)	1 571	(87.2)	2 017	(243.7)	2 301	(200.6)	2 457	(167.9)	2 391	(167.2)	374	(286.
Thailand		1 862	(110.7)	1 463	(169.5)	737	(94.1)	1 493	(205.8)	2 236	(385.5)	2 956	(204.6)	2 218	(218.
Trinidad and	Tobago	655	(1.0)	214	(0.9)	548	(3.4)	683	(2.3)	658	(1.9)	745	(1.3)	197	(3.
Tunisia		780	(32.1)	383	(28.5)	558	(37.2)	751	(68.8)	766	(56.0)	1 057	(95.5)	498	(100.
United Arab	Emirates	1 672	(75.0)	1 786	(94.9)	1 368	(274.5)	1 212	(155.9)	2 235	(216.9)	1 914	(131.0)	546	(309.
		888	(20.5)	673	(12.6)	753	(59.5)	875	(58.3)	1 233	(74.1)	692	(44.0)	-61	(74.
Uruguay		1 055	(39.9)	592	(45.7)	712	(70.2)	1 009	(78.1)	1 034	(100.7)	1 465	(105.4)	753	(129.
Uruguay Viet Nam															
Viet Nam		E07	(22.7)	437		E07		FOO							
	*	597 847	(22.7) (39.2)	437 646	(28.8) (59.6)	507 496	(62.1) (72.1)	508 789	(46.6) (88.9)	715 987	(71.6) (76.6)	665 1 095	(66.0) (118.7)	157 599	(88.

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status.

Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 2/3]

Table II.6.7 Students per school (school size), science performance and school characteristics

					By schoo	location						By type	of school		
			ea or village er than	(3 (own 000 to	(6	City over								
			people)		0 people)		0 people)	- '	rural area	_	ublic	_	ivate	_	e – publ
A 4 1! -		Mean 476	S.E. (44.9)	Mean 852	S.E. (26.0)	Mean 1 146	S.E. (19.9)	Dif. 669	S.E. (48.3)	Mean 1 031	S.E. (17.9)	Mean 1 045	S.E. (25.3)	Dif.	(32.4
Australia Austria		4/6 m	(44.9) m	852 m	(26.0) m	1 146 m	(19.9) m	m	(48.3) m	1 03 I	(17.9) m	1 045 m	(25.3) m	14 m	(32.4
Belgium		827	(98.6)	726	(23.5)	750	(51.0)	-77	(106.9)	w	W	w	W	w	
Canada		412	(72.3)	833	(31.7)	1 113	(25.9)	701	(73.3)	961	(19.6)	857	(50.7)	-104	(54.
Chile		326	(97.9)	696	(53.6)	1 181	(63.2)	855	(117.0)	860	(89.8)	1 084	(55.4)	224	(106.
Czech Re	enublic	204	(11.4)	480	(18.3)	547	(31.0)	342	(31.7)	478	(14.6)	335	(54.4)	-143	(56.
Denmark		284	(34.0)	612	(19.8)	589	(40.9)	305	(53.2)	632	(17.1)	303	(25.9)	-329	(33.
Estonia		182	(20.2)	627	(20.4)	797	(17.8)	614	(26.9)	560	(11.7)	649	(86.8)	90	(87.
Finland		206	(18.8)	452	(16.9)	515	(30.0)	309	(34.6)	434	(14.5)	533	(94.7)	99	(96.
France		671	(145.9)	830	(23.4)	1 020	(67.9)	349	(167.0)	933	(24.5)	678	(51.8)	-255	(59.
Germany	/	542	(76.3)	746	(40.1)	808	(39.5)	265	(88.8)	759	(27.7)	570	(36.5)	-189	(46.
Greece		96	(11.5)	275	(10.4)	299	(9.8)	203	(16.2)	271	(7.8)	183	(39.0)	-88	(39.
Hungary		144	(16.7)	437	(22.2)	521	(27.2)	377	(33.6)	489	(21.1)	357	(30.4)	-132	(36
Iceland		201	(1.7)	477	(1.3)	443	(1.4)	242	(2.2)	415	(0.9)	С	C	С	
Ireland		428	(34.3)	660	(25.6)	666	(33.9)	238	(48.8)	634	(26.5)	617	(16.8)	-17	(32
Israel		549	(103.2)	794	(44.0)	709	(61.0)	160	(123.9)	m	m	m	m	m	
Italy		666	(224.5)	825	(30.8)	998	(62.6)	332	(233.5)	896	(26.5)	311	(84.6)	-585	(90
Japan		С	C	558	(42.5)	838	(27.3)	С	C	672	(12.6)	949	(47.7)	277	(49
Korea		C 146	(O, O)	634	(52.3)	1 006	(16.2)	C C C C C C C C C C C C C C C C C C C	(10.0)	948	(27.6)	938	(42.4)	-10	(63
Latvia		146	(9.0)	523	(10.9)	780	(16.5)	634	(19.9)	521	(7.2)	177	(19.8)	-343	(20
Luxembo	ourg	m	(1 F 2)	1 374	(1.4)	1 388	(1.9)	1 270	(101.9)	1 439	(1.1)	1 059	(2.0)	-380	(2
Mexico	nde	133	(15.3)	688	(64.5)	1 412	(103.8)	1 279	(101.8)	1 001	(43.5)	423	(46.6)	-578	(68
Netherla		472	(109.1)	1 150	(64.9)	897 1 454	(80.4)	C 091	(111 2)	973	(69.1)	1 084	(67.0)	111	(101
New Zea	ııallu	473 217	(108.1) (16.4)	875 350	(51.0)	1 454 478	(36.5)	981 260	(111.2)	351	(21.4) (11.0)	786 274	(169.3) (101.9)	-407 -76	(170
Norway Poland		191	(16.4)	308	(14.7) (17.3)	363	(21.1) (15.1)	172	(19.4)	286	(9.1)	110	(31.8)	-76	(33
Portugal		752	(12.3)	1 697	(65.7)	2 162	(144.0)	1 409	(201.9)	1 796	(58.3)	1 140	(182.1)	-656	(187
Slovak Re	onublic	259	(123.3)	448	(15.9)	479	(43.6)	220	(48.3)	436	(13.0)	283	(25.0)	-153	(28
Slovenia	еривне	222	(9.3)	475	(3.4)	597	(5.5)	376	(10.8)	503	(2.8)	449	(2.4)	-53	(3
Spain		241	(47.3)	687	(29.4)	922	(55.1)	682	(72.7)	685	(26.9)	900	(51.4)	215	(58
Sweden		245	(25.1)	353	(13.3)	530	(30.6)	285	(40.2)	401	(14.5)	373	(40.8)	-27	(43
Switzerla	and	371	(145.5)	660	(54.4)	1 040	(321.2)	670	(351.9)	737	(58.7)	407	(212.6)	-330	(233
Turkey	and .	213	(79.3)	577	(43.7)	988	(48.4)	775	(93.2)	826	(36.6)	744	(303.6)	-82	(308
United K	ingdom	972	(160.4)	1 036	(36.2)	1 197	(62.4)	225	(171.6)	1 085	(28.9)	819	(221.3)	-266	(221
United S		432	(59.2)	1 282	(75.8)	1 623	(142.2)	1 191	(160.7)	1 402	(65.4)	365	(47.0)	-1 037	(88)
OECD av		369	(15.1)	706	(6.3)	890	(13.3)	501	(21.4)	767	(5.9)	615	(17.7)	-162	(19
Albania	-	252	(101.2)	298	(47.4)	249	(60.6)	-3	(117.2)	291	(35.0)	141	(61.2)	-151	(67.
Algeria		501	(48.5)	607	(23.2)	835	(94.7)	334	(106.8)	638	(26.2)	С	C	С	(
Brazil		299	(34.3)	772	(33.2)	1 102	(58.3)	803	(67.0)	927	(32.8)	877	(125.2)	-51	(130
B-S-J-G (China)	1 275	(202.3)	2 419	(209.1)	3 184	(354.0)	1 910	(408.6)	2 519	(162.7)	3 335	(561.1)	816	(559
Bulgaria		175	(25.6)	520	(25.4)	798	(46.1)	623	(53.5)	621	(23.0)	С	С	С	
CABA (A	rgentina)	m	m	С	С	773	(82.8)	m	m	1 009	(120.6)	545	(95.7)	-464	(157
Colombia		434	(73.5)	1 300	(113.3)	1 529	(101.9)	1 095	(129.6)	1 416	(71.6)	887	(139.2)	-530	(159
Costa Ric	ca	347	(39.9)	880	(27.8)	866	(99.5)	519	(113.6)	827	(28.3)	370	(74.0)	-458	(81
Croatia		С	С	582	(18.6)	638	(25.3)	С	С	605	(14.5)	С	С	С	
Cyprus*		290	(1.6)	547	(0.8)	550	(0.9)	260	(2.0)	530	(0.6)	578	(1.9)	48	(2
	an Republic	327	(50.7)	626	(42.5)	758	(62.7)	431	(83.3)	650	(34.4)	522	(69.0)	-129	(77
FYROM		161	(1.7)	951	(1.7)	1 152	(4.4)	991	(4.6)	1 039	(2.0)	180	(1.2)	-859	(2
Georgia		221	(23.1)	579	(49.9)	948	(48.9)	727	(53.1)	637	(24.5)	336	(80.4)	-300	(84
	ng (China)	m	m	m	m	841	(20.5)	m	m	797	(20.5)	845	(22.0)	47	(30
Indonesia	a	378	(80.4)	613	(39.3)	1 358	(732.2)	980	(740.3)	683	(48.3)	603	(255.6)	-81	(257
Jordan		416	(58.2)	638	(34.6)	780	(34.3)	364	(69.8)	624	(21.0)	792	(44.9)	168	(51
Kosovo		562	(22.9)	1 045	(12.2)	1 192	(42.0)	631	(50.0)	1 037	(10.3)	251	(25.8)	-786	(30
Lebanon		363	(41.2)	631	(38.3)	1 009	(128.1)	646	(137.0)	395	(24.9)	956	(63.1)	561	(66
Lithuania		245	(16.5)	565	(12.0)	658	(23.6)	413	(29.7)	534	(11.9)	483	(57.0)	-51	(62
Macao (0	Lhina)	C	C	C	C	1 814	(1.3)	С	С	C	C	1 843	(1.6)	C	
Malta		437	(0.9)	470	(0.5)	m	m (62.0)	m	m (C 4 0)	461	(0.6)	448	(0.6)	-13	(0
Moldova Montene		235	(12.2)	515	(23.3)	830	(62.8)	595	(64.0)	426	(13.6)	С	C	С	
	gro	C 227	(E2 4)	663	(3.3)	1 198	(4.0)	72E	(120.8)	836	(3.3)	C 662	(EQ 1)	C 04	/75
Peru		337	(53.4)	809	(45.4)	1 062	(125.7)	725	(139.8)	755	(45.1)	662	(58.1)	-94	(75
Qatar Romania		570	(2.0)	2 027	(8.9)	1 355	(3.5)	785	(3.8)	716	(2.1)	2 950	(8.5)	2 235	(8
Russia		570 222	(65.6) (29.3)	845 624	(42.2)	917 991	(56.9) (64.3)	347 769	(85.1)	845 757	(31.7)	С	C C	C	
								1	(74.7)	1 219		1 26E	(205.3)		(205
Singapor Chinese 1		m	m	1 920	(127 E)	1 241	(19.1)	m	m		(0.5)	1 365	(205.3)	146	(205
Thailand		C 520	(100 E)	1 830	(137.5)	2 622	(96.8) (205.8)	2 190	(237.9)	1 746	(45.1)	3 308		1 562	(165
	and Tobago	520	(100.5)	1 957	(153.5)	2 708		2 189		1 809	(84.3)	2 144	(566.8)	336	(572
Tunisia	and lonago	466	(3.7)	685	(1.0)	m	m (6.4.2)	m	(79.F)	660	(1.1)	557	(5.0)	-103	(5
	rab Emirates	530	(44.1)	752	(42.9)	885	(64.3)	355	(78.5)	795	(32.8)	204	(17.0)	-591	(37)
		482	(50.5)	943	(71.9)	2 169	(123.1)	1 686	(136.2)	562	(31.5)	2 565	(119.9)	2 003	
Uruguay		182	(25.2)	929	(32.4)	920	(45.7)	738	(51.0)	978	(21.9)	394	(51.8)	-584	(55
		961	(57.0)	1 012	(77.8)	1 255	(103.6)	295	(119.9)	1 069	(41.7)	569	(162.5)	-500	(165
Viet Nan		1 117	(16.2)	574	(36.2)	714	(48.7)	598	(50.4)	641	(27.7)	430	(45.0)	-211	(56
Argentin		117													
	an**	467 870	(54.4) (74.8)	753 1 262	(58.0) (59.9)	1 179 1 303	(80.7) (61.5)	712 433	(94.0) (96.2)	838 1 235	(39.6) (27.2)	1 043 808	(171.9) (198.0)	205 -428	(168

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status. Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 3/3]

Table II.6.7 Students per school (school size), science performance and school characteristics

				By educ	ation level				re account nools' socio				r accountii 100ls' socio		
		edu	secondary cation EED 2)	edu	secondary cation EED 3)	ISCED 3	3 - ISCED 2	in the sci per ac student	ange ience score Iditional t enrolled e school	in stu perfor	d variance udent mance ed x 100)	in the scie per ad- student	ange ence score ditional enrolled school	in st	d variance udent mance ed x 100)
		Mean	S.E.	Mean	S.E.	Dif.	S.E.	Score dif	. S.E.	%	S.E.	Score dif.	S.E.	%	S.E.
Q	Australia	1 017	(14.7)	1 147	(30.8)	130	(31.0)	0.03	(0.00)	1.7	(0.4)	0.01	(0.00)	16.4	(1.1)
OECD	Austria	m	m	m	m (20.5)	m	m	m	m	m	m (1.0)	m	m	m	m (1.0)
0	Belgium Canada	527 854	(32.6)	753 964	(20.5) (18.7)	226 110	(31.1)	0.08	(0.01)	7.1 1.4	(1.8)	0.01 0.01	(0.01)	36.9 11.6	(1.9)
	Chile	558	(74.6)	1 032	(48.6)	473	(78.2)	0.02	(0.00)	5.5	(2.3)	0.01	(0.00)	27.5	(1.9)
	Czech Republic	437	(13.5)	501	(27.9)	64	(31.8)	0.04	(0.01)	0.9	(0.6)	0.01	(0.01)	33.0	(2.1)
	Denmark	552	(15.5)	С	С	С	С	0.00	(0.01)	0.0	(0.1)	0.00	(0.01)	11.6	(1.4)
	Estonia	569	(11.5)	636	(69.1)	68	(69.2)	0.04	(0.01)	2.5	(0.9)	-0.01	(0.01)	11.2	(1.4)
	Finland	437 514	(13.9)	994	(22.0)	480	(2.F. C)	0.02	(0.01)	0.2 13.2	(0.3)	0.00	(0.01)	10.9 39.1	(1.3)
	France Germany	717	(19.2) (20.8)	1 479	(23.9) (261.6)	762	(25.6) (264.3)	0.07	(0.01)	6.5	(1.8)	0.02	(0.01)	36.3	(2.1)
	Greece	233	(22.5)	269	(8.2)	36	(24.8)	-0.02	(0.04)	0.1	(0.4)	-0.03	(0.02)	23.4	(2.9)
	Hungary	356	(33.1)	477	(19.6)	121	(36.9)	0.10	(0.02)	7.3	(2.8)	0.04	(0.01)	44.7	(2.2)
	Iceland	413	(0.9)	m	m	m	m	-0.01	(0.01)	0.0	(0.0)	-0.02	(0.01)	5.2	(8.0)
	Ireland	622	(13.9)	628	(16.5)	6	(8.5)	0.04	(0.01)	1.8	(0.8)	0.01	(0.01)	15.2	(1.3)
	Israel Italy	791 506	(45.4) (96.6)	724 874	(21.3) (25.8)	-67 368	(50.2) (104.3)	0.05	(0.01)	4.8 2.4	(1.4)	0.02	(0.01)	24.5 24.1	(2.4)
	Japan	m	(96.6) m	760	(19.1)	300 m	(104.3) m	0.03	(0.01)	3.5	(2.1)	0.02	(0.01)	28.1	(2.4)
	Korea	742	(78.5)	965	(13.2)	223	(78.1)	0.05	(0.01)	3.0	(1.2)	0.01	(0.01)	18.2	(2.1)
	Latvia	509	(7.2)	609	(50.0)	100	(50.6)	0.06	(0.01)	4.9	(1.0)	0.02	(0.01)	12.6	(1.5)
	Luxembourg	1 410	(1.8)	1 341	(1.6)	-69	(2.8)	-0.02	(0.00)	0.7	(0.2)	0.01	(0.00)	34.5	(1.0)
	Mexico	459	(39.4)	1 239	(64.5)	781	(79.3)	0.02	(0.00)	6.6	(1.6)	0.01	(0.00)	18.1	(2.2)
	Netherlands New Zealand	967	(54.6) (49.8)	1 336	(68.0) (20.7)	369	(81.0) (43.9)	0.05	(0.01)	7.7 2.5	(3.3)	0.02 0.00	(0.01)	37.7 19.7	(4.7) (1.8)
	Norway	348	(10.4)	1 1/3 C	(20.7) C	C	(43.9) C	0.02	(0.00)	0.1	(0.0)	0.00	(0.00)	8.7	(0.9)
	Poland	278	(8.9)	С	С	c	C	0.07	(0.01)	1.7	(0.7)	0.02	(0.01)	15.5	(1.6)
	Portugal	1 648	(69.6)	1 818	(67.0)	169	(73.5)	0.01	(0.00)	1.1	(0.6)	0.00	(0.00)	20.4	(2.1)
	Slovak Republic	383	(16.4)	450	(18.1)	67	(23.6)	0.08	(0.02)	2.7	(1.5)	0.01	(0.01)	30.3	(2.3)
	Slovenia	505	(52.3)	500	(0.6)	-5	(52.4)	0.08	(0.01)	6.3	(0.9)	0.03	(0.00)	36.2	(1.3)
	Spain Sweden	750 395	(24.1) (13.9)	471	(127.2)	77	(128.4)	0.02	(0.01)	0.8	(0.4)	-0.01 0.02	(0.00)	14.2 16.7	(1.2)
	Switzerland	510	(27.6)	1 405	(200.1)	895	(126.4)	0.03	(0.02)	4.3	(1.7)	0.02	(0.01)	26.8	(2.1)
	Turkey	888	(112.9)	820	(37.4)	-69	(118.0)	-0.02	(0.01)	1.2	(1.1)	-0.01	(0.01)	27.3	(4.0)
	United Kingdom	752	(121.8)	1 072	(31.5)	320	(127.2)	0.01	(0.01)	0.3	(0.5)	0.00	(0.01)	19.1	(1.8)
	United States	1 220	(79.7)	1 336	(62.2)	116	(60.4)	0.00	(0.00)	0.0	(0.1)	0.00	(0.00)	13.9	(1.6)
	OECD average	668	(8.6)	921	(14.3)	213	(17.5)	0.03	(0.00)	3.1	(0.2)	0.01	(0.00)	22.6	(0.4)
rs	Albania	220	(38.2)	307	(44.9)	87	(55.3)	m	m	m	m	m	m	m	m
Partners	Algeria	562	(15.9)	875	(83.6)	313	(85.4)	0.06	(0.01)	5.7	(2.5)	0.03	(0.01)	10.8	(3.1)
Par	Brazil	791	(32.5)	949	(36.3)	158	(40.8)	0.01	(0.01)	0.6	(0.6)	0.00	(0.00)	22.3	(2.4)
_	B-S-J-G (China) Bulgaria	2 031	(139.1) (52.2)	3 544 623	(293.6) (23.7)	1 514 242	(277.7) (55.4)	0.01	(0.00)	1.4 18.2	(1.2)	0.00 0.03	(0.00) (0.01)	35.3 37.6	(2.8)
	CABA (Argentina)	727	(77.7)	1 319	(254.3)	592	(261.6)	0.02	(0.01)	2.7	(3.1)	0.03	(0.01)	36.3	(3.8)
	Colombia	1 173	(55.4)	1 341	(73.1)	167	(56.4)	0.00	(0.00)	0.3	(0.4)	0.00	(0.00)	19.8	(2.6)
	Costa Rica	729	(27.7)	818	(26.3)	89	(27.2)	0.02	(0.00)	2.2	(1.0)	0.00	(0.00)	22.4	(2.1)
	Croatia	С	С	598	(14.3)	С	C	0.04	(0.01)	1.3	(0.9)	0.02	(0.01)	26.0	(2.1)
	Cyprus*	400	(4.6)	546	(0.6)	146	(4.8)	0.12	(0.01)	6.4	(0.6)	0.04	(0.01)	17.6	(0.9)
	Dominican Republic FYROM	676 c	(88.5) c	604 1 012	(29.2) (1.3)	-71 c	(92.9) c	0.01	(0.01)	0.5	(0.9)	0.00 -0.01	(0.01)	26.4 14.6	(3.2)
	Georgia	628	(25.1)	609	(24.8)	-19	(25.5)	0.03	(0.00)	3.1	(1.0)	0.00	(0.00)	15.3	(1.6)
	Hong Kong (China)	798	(14.6)	863	(23.5)	65	(13.5)	0.11	(0.04)	10.2	(2.5)	0.07	(0.03)	15.3	(2.1)
	Indonesia	482	(50.9)	834	(220.2)	352	(223.6)	0.01	(0.00)	2.3	(0.8)	0.00	(0.00)	24.7	(3.1)
	Jordan	657	(18.3)	m	m	m	m	0.04	(0.01)	2.2	(0.9)	0.02	(0.01)	13.3	(2.3)
	Kosovo	788	(37.7)	1 097	(7.7)	309	(40.0)	0.03	(0.00)	6.3	(1.1)	0.02	(0.00)	15.8	(1.4)
	Lebanon Lithuania	468 533	(50.4) (11.0)	747 c	(42.8) c	279 C	(62.7) c	0.05	(0.00)	13.4	(2.7) (1.4)	0.03	(0.00)	21.5 21.4	(3.2) (2.3)
	Macao (China)	1 671	(3.1)	1 917	(2.1)	246	(4.5)	0.03	(0.00)	8.1	(0.6)	0.02	(0.00)	10.6	(0.7)
	Malta	С	C	463	(0.5)	С	C	0.08	(0.01)	1.7	(0.4)	0.06	(0.01)	25.5	(1.2)
	Moldova	422	(15.0)	546	(34.9)	125	(32.8)	0.05	(0.01)	4.3	(1.5)	0.00	(0.01)	13.6	(1.8)
	Montenegro	854	(131.1)	832	(0.5)	-22	(131.2)	0.03	(0.00)	1.4	(0.4)	0.00	(0.00)	17.2	(0.9)
	Peru	577	(31.7)	775	(38.3)	198	(30.1)	0.03	(0.00)	5.2	(1.4)	0.01	(0.00)	30.2	(2.2)
	Qatar Romania	1 636	(12.7) (31.6)	1 631 m	(5.6) m	-5 m	(14.9) m	0.01	(0.00)	6.0 2.2	(0.4)	0.01 0.01	(0.00)	21.7 23.3	(0.6)
	Russia	754	(41.9)	735	(61.6)	-19	(55.3)	0.03	(0.01)	2.9	(1.0)	0.00	(0.01)	9.6	(1.8)
	Singapore	1 102	(70.9)	1 234	(16.1)	132	(68.7)	0.07	(0.01)	10.8	(1.1)	0.03	(0.01)	27.7	(1.6)
	Chinese Taipei	1 657	(41.9)	2 639	(83.4)	982	(78.0)	0.00	(0.00)	0.0	(0.2)	-0.01	(0.00)	29.3	(2.5)
	Thailand	1 249	(73.3)	2 060	(136.6)	811	(140.0)	0.02	(0.00)	8.9	(3.4)	0.00	(0.00)	18.7	(3.0)
	Trinidad and Tobago	589	(2.2)	701	(1.3)	112	(2.7)	0.11	(0.01)	6.7	(0.8)	0.02	(0.01)	35.7	(1.1)
	Tunisia United Arab Emirates	1 225	(36.0) (83.2)	865 1 741	(44.9) (80.6)	259 516	(58.4) (88.7)	0.04	(0.01)	6.5	(1.8)	0.02	(0.01)	19.0 23.2	(3.5) (1.9)
	Uruguay	741	(26.8)	978	(26.6)	236	(35.9)	0.02	(0.00)	0.3	(0.3)	0.01	(0.00)	27.2	(1.8)
	Viet Nam	695	(109.0)	1 091	(43.4)	395	(112.0)	0.04	(0.01)	9.3	(2.3)	0.02	(0.01)	20.8	(3.9)
	Argentina**	592	(29.5)	600	(26.5)	8	(32.6)	0.02	(0.01)	1.6	(0.9)	0.01	(0.00)	19.0	(2.3)
	Kazakhstan**	803	(46.6)	795	(48.4)	-8	(39.9)	0.00	(0.01)	0.0	(0.3)	-0.01	(0.01)	9.4	(2.6)
	Malaysia**	1 487	(171.5)	1 201	(27.7)	-285	(172.8)	0.00	(0.00)	0.2	(0.3)	-0.01	(0.00)	18.7	(2.5)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status.

Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/1]

Table II.6.9 Composition and qualifications of teaching staff

	orincipals' reports		ools attended by 15-yea	r-olds, percentage of tea	chers	
	Working	; full-time	Working	part-time	Fully cer the appropri	rtified by ate authority
	%	S.E.	%	S.E.	%	S.E.
Australia	83.2	(0.5)	16.8	(0.5)	95.4	(0.6)
Austria	72.0	(1.0)	28.0	(1.0)	84.0	(2.0)
Belgium	67.0	(1.1)	33.0	(1.1)	84.9	(1.8)
Canada	90.7	(0.6)	9.3	(0.6)	94.7	(1.2)
Chile	78.7	(2.0)	21.3	(2.0)	21.0	(2.5)
Czech Republic	82.9	(0.8)	17.1	(0.8)	92.6	(0.9)
Denmark	87.8	(0.9)	12.2	(0.9)	m	m
Estonia	69.8	(1.0)	30.2	(1.0)	89.1	(1.2)
Finland	91.3	(0.9)	8.7	(0.9)	92.6	(1.3)
France	87.5	(0.8)	12.5	(0.8)	77.6	(1.3)
Germany	67.9	(1.0)	32.1	(1.0)	88.4	(2.3)
Greece	77.2	(1.1)	22.8	(1.1)	86.9	(2.7)
Hungary	90.0	(0.7)	10.0	(0.7)	m	m
Iceland	84.2	(0.1)	15.8	(0.1)	86.4	(0.1)
Ireland	87.5	(1.0)	12.5	(1.0)	98.5	(0.3)
Israel	65.2	(1.5)	34.8	(1.5)	73.6	(3.4)
Italy	82.6	(1.1)	17.4	(1.1)	88.0	(0.9)
Japan	82.8	(0.9)	17.2	(0.9)	97.1	(0.6)
Korea	91.6	(0.7)	8.4	(0.7)	95.5	(1.6)
Latvia	78.3	(0.8)	21.7	(0.8)	64.8	(2.3)
Luxembourg	81.1	(0.0)	18.9	(0.0)	71.6	(0.0)
Mexico	49.0	(2.3)	51.0	(2.3)	35.3	(2.7)
Netherlands	40.0	(2.2)	60.0	(2.2)	81.3	(3.1)
New Zealand	82.8	(1.0)	17.2	(1.0)	90.3	(0.7)
Norway	80.5	(1.0)	19.5	(1.0)	83.9	(2.4)
Poland	76.0	(1.7)	24.0	(1.7)	95.3	(1.6)
Portugal	93.4	(0.6)	6.6	(0.6)	91.5	(1.9)
Slovak Republic	85.1	(0.7)	14.9	(0.7)	92.1	(1.1)
Slovenia	90.7	(0.1)	9.3	(0.1)	97.1	(0.1)
Spain	88.9	(0.5)	11.1	(0.5)	88.5	(2.1)
Sweden	78.8	(1.1)	21.2	(1.1)	85.9	(1.7)
Switzerland	39.5	(1.5)	60.5	(1.5)	80.9	(2.8)
Turkey	95.7	(0.6)	4.3	(0.6)	92.1	(2.0)
United Kingdom	84.6	(0.7)	15.4	(0.7)	92.1	(1.6)
United States	96.3	(0.4)	3.7	(0.4)	91.6	(1.7)
OECD average	79.5	(0.2)	20.5	(0.2)	84.3	(0.3)
Albania	93.4	(0.6)	6.6	(0.6)	82.5	(2.0)
Algeria	93.7	(0.6)	6.3	(0.6)	82.3	(2.0)
Brazil	51.0	(2.3)	49.0	(2.3)	87.4	(1.1)
B-S-J-G (China)	97.2	(1.0)	2.8	(1.0)	98.5	(0.2)
Bulgaria	96.6	(0.5)	3.4	(0.5)	96.9	(0.8)
CABA (Argentina)	28.3	(5.1)	71.7	(5.1)	86.6	(4.6)
Colombia	96.1	(0.8)	3.9	(0.8)	9.8	(1.4)
Costa Rica	63.4	(1.3)	36.6	(1.3)	88.4	(1.2)
Croatia	79.9	(1.0)	20.1	(1.0)	94.8	(1.3)
Cyprus*	71.4	(0.0)	28.6	(0.0)	98.0	(0.0)
Dominican Republic	77.2	(2.6)	22.8	(2.6)	96.0 m	(0.0) m
FYROM	88.3	(0.0)	11.7	(0.0)	77.5	(0.1)
Georgia	62.7	(2.0)	37.3	(2.0)	33.1	(1.1)
Hong Kong (China)	96.8	(0.4)	3.2	(0.4)	94.2	(1.4)
Indonesia	84.0	(1.5)	16.0	(1.5)	62.7	(1.4)
Jordan	96.0	(1.0)	4.0	(1.0)	74.1	(3.0)
Kosovo	89.6	(0.3)	10.4	(0.3)	70.7	(0.9)
Lebanon	63.9	(1.7)	36.1	(1.7)	69.4	(2.7)
Lithuania	78.2	(0.9)	21.8	(0.9)	99.3	(0.2)
Macao (China)	96.6	(0.0)	3.4	(0.0)	99.9	(0.0)
Malta	95.1	(0.0)	4.9	(0.0)	87.7	(0.0)
Moldova	73.9	(1.2)	26.1	(1.2)	71.3	(1.6)
Montenegro	88.1	(0.1)	11.9	(0.1)	98.7	(0.0)
Peru	77.0	(1.9)	23.0	(1.9)	86.7	(1.4)
Qatar	99.4	(0.0)	0.6	(0.0)	76.4	(0.1)
Romania	79.6	(1.1)	20.4	(1.1)	95.9	(1.3)
Russia	94.4	(0.4)	5.6	(0.4)	88.6	(2.5)
Singapore	94.9	(0.1)	5.1	(0.1)	89.6	(1.5)
Chinese Taipei	87.9	(0.6)	12.1	(0.6)	90.5	(1.0)
Thailand	89.9	(1.0)	10.1	(1.0)	94.7	(0.6)
Trinidad and Tobago	98.7	(0.0)	1.3	(0.0)	50.8	(0.0)
Tunisia	94.9	(0.9)	5.1	(0.9)	82.3	(3.6)
United Arab Emirates	99.2	(0.9)	0.8	(0.1)	38.2	(1.1)
Uruguay	16.1	(1.4)	83.9	(1.4)	60.4	(1.1)
Viet Nam	95.0	(0.8)	5.0	(0.8)	85.6	
· ·					•	(3.2)
Argentina**	37.2	(2.6)	62.8	(2.6)	91.2	(1.9)
Kazakhstan**	93.8	(0.7)	6.2	(0.7)	77.5	(2.6)
Malaysia**	99.5	(0.1)	0.5	(0.1)	95.9	(1.1)

Note: In Chile the question about the certification of teachers was adapted as "authorised or enabled by the Ministry of Education".
* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).
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[Part 1/2]

Table II.6.14 Shortage of education staff

Results based on scho	ooi princ	<u> </u>		students	in schools	s whose p	rincipal r	reported t	hat the so	chool's ca	pacity to	provide i	nstruction	is hinder	ed by	
				lack of te								-		teaching st		
	Not	at all	Very	little	To som	e extent	A	lot	Not	at all	Very	little	To som	e extent	A	lot
	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Australia	53.2	(1.9)	26.3	(1.7)	19.4	(1.4)	1.1	(0.4)	41.7	(1.9)	40.8	(2.0)	16.0	(1.5)	1.6	(0.5)
Austria O Relgium	48.9	(3.3)	31.9	(3.2)	16.3	(2.8)	2.8	(1.3)	44.8	(3.3)	41.4	(3.4)	12.9	(2.5)	0.9	(0.5)
Belgium Canada	23.9 56.4	(2.8)	42.3 24.8	(3.0)	31.0 17.8	(2.9)	2.8	(1.1)	20.4 44.7	(2.4)	49.3 42.1	(3.1)	28.2	(2.8)	2.1 1.8	(1.1)
Chile	50.9	(3.7)	31.8	(3.5)	12.9	(2.1)	4.4	(1.4)	42.7	(4.1)	38.1	(2.6)	16.3	(3.2)	2.9	(1.3)
Czech Republic	62.5	(3.3)	24.3	(3.2)	12.7	(1.7)	0.5	(0.4)	43.8	(2.7)	38.8	(2.8)	16.5	(2.2)	0.9	(0.5)
Denmark	61.1	(3.6)	32.9	(3.5)	5.7	(1.5)	0.4	(0.3)	63.3	(3.1)	31.8	(3.1)	4.9	(1.4)	0.0	С
Estonia	25.1	(2.4)	40.3	(2.9)	31.2	(2.8)	3.3	(0.9)	30.1	(2.5)	42.6	(2.5)	26.4	(2.6)	0.9	(0.5)
Finland	60.5	(4.4)	36.7	(4.4)	2.8	(1.2)	0.0	С	51.5	(4.1)	44.7	(4.0)	3.8	(1.6)	0.0	С
France	26.2	(3.0)	39.1	(3.0)	32.5	(2.9)	2.3	(1.1)	22.4	(2.7)	57.2	(3.3)	20.1	(2.8)	0.3	(0.6)
Germany	12.8	(2.6)	32.1	(3.8)	43.0	(3.4)	12.1	(2.3)	22.8	(3.1)	53.7	(3.6)	23.0	(3.2)	0.5	(0.5)
Greece Hungary	27.3 35.8	(3.1)	28.4 30.3	(3.4)	23.6 32.0	(3.0)	20.7	(2.8)	39.9 33.7	(4.0)	39.1 47.7	(3.5)	15.5	(2.3)	10.7 3.1	(2.4)
Iceland	50.6	(0.3)	36.2	(0.3)	13.1	(0.2)	0.2	(0.0)	44.6	(0.3)	40.6	(0.3)	14.8	(0.2)	0.0	(1.2) C
Ireland	18.8	(3.3)	25.7	(3.7)	48.0	(4.1)	7.5	(2.2)	55.8	(4.3)	31.0	(3.9)	13.3	(3.1)	0.0	С
Israel	31.7	(3.6)	27.2	(3.7)	33.4	(3.6)	7.7	(2.5)	13.4	(2.4)	45.9	(4.1)	32.8	(3.7)	7.8	(2.7)
Italy	35.9	(3.9)	32.6	(3.7)	26.3	(3.8)	5.2	(1.8)	26.4	(3.3)	32.6	(3.5)	35.9	(3.4)	5.1	(1.7)
Japan	7.9	(1.9)	37.0	(3.3)	45.8	(3.4)	9.3	(2.2)	4.6	(1.5)	51.7	(3.5)	40.6	(3.5)	3.1	(1.3)
Korea	26.8	(3.5)	34.4	(3.8)	35.1	(3.8)	3.7	(1.6)	51.5	(3.9)	37.0	(4.0)	11.4	(2.4)	0.0	(O 7)
Latvia Luxembourg	40.4 9.1	(3.0)	38.0 31.9	(2.7)	17.5 54.2	(1.9)	4.1 4.8	(1.1)	49.7 16.4	(2.9)	35.3 63.0	(2.3)	12.9 18.4	(2.0)	2.1	(0.7)
Mexico	33.7	(3.0)	37.2	(3.7)	22.5	(2.9)	6.6	(1.7)	37.8	(2.9)	47.8	(3.3)	13.8	(2.3)	0.6	(0.0)
Netherlands	32.2	(4.0)	40.7	(4.0)	24.9	(4.0)	2.1	(1.5)	9.6	(2.6)	54.9	(4.5)	31.6	(4.3)	4.0	(1.9)
New Zealand	52.2	(3.8)	26.9	(3.0)	20.3	(3.1)	0.7	(0.5)	46.4	(4.2)	37.8	(4.0)	13.0	(2.7)	2.8	(1.5)
Norway	40.6	(3.5)	37.9	(3.5)	20.9	(3.0)	0.6	(0.6)	32.7	(3.3)	49.7	(3.6)	17.5	(2.4)	0.0	С
Poland	86.0	(3.0)	13.8	(3.0)	0.2	(0.2)	0.0	С	89.5	(2.6)	9.9	(2.5)	0.6	(0.6)	0.0	С
Portugal	26.1	(3.0)	34.2	(3.1)	33.9	(3.4)	5.8	(1.8)	23.4	(2.9)	45.7	(4.0)	27.1	(3.2)	3.8	(1.5)
Slovak Republic	76.3	(2.6)	13.8	(2.0)	8.5	(1.8)	1.3	(0.6)	75.1	(2.7)	18.6	(2.4)	5.8	(1.2)	0.5	(0.4)
Slovenia Spain	48.5 26.7	(0.4)	32.6 17.8	(0.5)	15.4 39.4	(0.5)	3.5 16.1	(0.1)	58.8 38.5	(0.6)	30.8	(0.6)	10.4	(0.6)	0.0 4.1	(1.7)
Sweden	30.3	(3.1)	30.5	(3.8)	36.0	(3.7)	3.1	(1.3)	24.1	(3.6)	37.8	(3.9)	34.7	(3.5)	3.4	(1.3)
Switzerland	38.3	(3.2)	37.9	(3.2)	22.5	(3.0)	1.2	(0.7)	43.1	(3.8)	41.6	(3.9)	14.3	(2.8)	1.0	(0.7)
Turkey	30.8	(3.8)	39.8	(4.2)	25.2	(3.4)	4.1	(1.5)	27.6	(3.2)	46.0	(4.1)	23.7	(3.2)	2.7	(1.2)
United Kingdom	29.2	(3.6)	28.0	(3.1)	35.6	(3.7)	7.2	(2.0)	39.5	(4.1)	40.5	(4.0)	18.1	(3.3)	1.9	(0.9)
United States	42.2	(3.8)	34.1	(3.9)	21.0	(3.1)	2.7	(1.0)	51.3	(4.0)	34.5	(3.9)	13.3	(2.9)	0.9	(0.6)
OECD average	38.8	(0.5)	31.7	(0.5)	25.2	(0.5)	4.3	(0.2)	38.9	(0.5)	40.9	(0.6)	18.1	(0.4)	2.0	(0.2)
Albania Algeria Brazil	61.6	(3.6)	24.7	(2.9)	10.3	(2.4)	3.4	(1.7)	55.4	(3.8)	27.9	(3.8)	13.1	(2.7)	3.7	(1.5)
š Algeria	46.7 48.6	(4.8)	29.7 25.4	(4.5)	16.4 20.2	(2.8)	7.3 5.7	(2.3)	32.0 53.4	(3.6)	32.3	(4.2)	27.2 17.1	(3.5)	8.6 2.8	(2.3)
Brazil B-S-J-G (China)	12.8	(2.2)	23.5	(2.1)	43.4	(4.1)	20.3	(1.4)	12.3	(2.5)	26.7	(2.6)	35.9	(2.4)	23.6	(0.8)
Bulgaria	77.5	(3.2)	15.7	(2.9)	5.9	(1.7)	0.9	(0.7)	72.1	(3.6)	20.7	(3.2)	6.4	(2.0)	0.8	(0.7)
CABA (Argentina)	39.2	(6.5)	31.8	(6.9)	20.0	(5.7)	8.9	(4.1)	39.2	(4.7)	37.7	(5.7)	21.1	(5.8)	2.1	(2.2)
Colombia	36.0	(3.1)	22.7	(3.3)	29.9	(3.2)	11.5	(2.4)	37.5	(3.4)	35.8	(3.8)	22.5	(2.7)	4.3	(1.4)
Costa Rica	29.2	(3.4)	24.0	(3.0)	23.5	(2.9)	23.3	(3.5)	22.6	(3.3)	32.4	(3.2)	28.7	(3.4)	16.3	(2.8)
Croatia	46.5	(3.7)	33.0	(3.6)	17.4	(2.9)	3.1	(1.3)	47.8	(4.1)	31.7	(3.8)	17.7	(3.3)	2.8	(1.3)
Cyprus*	45.7	(0.1)	35.1	(0.2)	11.1	(0.1)	8.1	(0.1)	23.0	(0.1)	45.1	(0.1)	18.6	(0.1)	13.3	(0.1)
Dominican Republic FYROM	48.9 88.5	(3.3)	7.4	(3.0)	22.4 4.1	(3.1)	7.2	(2.2) c	47.9 84.8	(3.5)	30.6 9.1	(3.5)	17.6	(3.0)	3.9 0.0	(1.5) c
Georgia	83.5	(2.4)	10.5	(2.0)	4.1	(1.3)	1.9	(0.6)	42.4	(3.1)	36.9	(3.6)	17.3	(2.8)	3.4	(1.1)
Hong Kong (China)	41.1	(4.3)	36.7	(4.0)	18.9	(3.3)	3.4	(1.5)	41.5	(4.3)	47.1	(4.6)	9.2	(2.5)	2.3	(1.3)
Indonesia	53.1	(3.2)	14.7	(2.5)	23.7	(2.9)	8.5	(2.0)	47.7	(3.2)	30.3	(3.2)	19.8	(2.8)	2.2	(1.1)
Jordan	18.6	(2.8)	25.1	(3.0)	25.3	(3.0)	31.0	(3.4)	12.8	(2.2)	30.2	(3.9)	34.6	(3.5)	22.5	(3.4)
Kosovo	49.0	(1.3)	31.1	(1.2)	13.2	(0.6)	6.7	(0.8)	45.6	(1.3)	39.4	(1.1)	8.1	(0.7)	6.9	(0.7)
Lebanon	56.6	(3.5)	20.6	(3.2)	19.7	(2.9)	3.0	(1.3)	40.2	(3.2)	41.2	(3.1)	15.3	(2.3)	3.3	(1.4)
Lithuania Macao (China)	70.1 47.0	(2.7)	18.6 19.2	(2.3)	10.8 19.4	(1.8)	0.5 14.4	(0.4)	48.4 18.5	(3.0)	36.1 35.8	(2.6)	12.8 33.1	(2.1)	2.7 12.6	(1.1)
Malta	68.9	(0.1)	19.2	(0.0)	12.1	(0.1)	0.0	(U.U)	61.1	(0.0)	28.3	(0.1)	5.2	(0.1)	5.4	(0.0)
Moldova	47.1	(3.9)	27.2	(3.1)	23.6	(3.1)	2.1	(1.0)	33.8	(3.3)	41.1	(3.7)	21.4	(2.8)	3.8	(1.4)
Montenegro	72.5	(0.4)	26.4	(0.2)	1.1	(0.3)	0.0	C	65.4	(0.4)	34.2	(0.2)	0.4	(0.3)	0.0	C
Peru	28.6	(2.5)	46.4	(2.9)	14.2	(2.2)	10.7	(1.7)	28.6	(2.6)	46.8	(3.0)	20.1	(2.4)	4.4	(1.3)
Qatar	60.0	(0.1)	22.8	(0.1)	12.6	(0.1)	4.6	(0.0)	70.0	(0.1)	21.6	(0.1)	6.8	(0.1)	1.6	(0.0)
Romania	81.7	(3.2)	12.9	(2.9)	5.4	(1.5)	0.0	(1.0)	79.6	(3.2)	17.4	(3.1)	3.0	(1.0)	0.0	C (2.0)
Russia	34.3 45.9	(4.7)	24.2	(4.0)	34.0	(3.4)	7.5	(1.9)	27.5	(3.6)	29.6	(3.2)	32.5	(3.2)	10.4	(2.0)
Singapore Chinese Taipei	24.1	(1.2)	43.4 36.5	(1.2)	10.7 33.4	(0.1)	0.0 6.0	(1.8)	48.7 17.3	(0.8)	38.8 64.0	(0.7)	12.2 18.2	(0.1)	0.3	(0.0)
Thailand	17.4	(3.0)	29.6	(3.9)	41.3	(3.1)	11.7	(2.9)	40.0	(3.8)	30.6	(3.3)	26.8	(3.5)	2.6	(1.0)
Trinidad and Tobago	14.0	(0.2)	35.7	(0.3)	42.0	(0.3)	8.3	(0.1)	27.6	(0.2)	30.4	(0.2)	39.7	(0.3)	2.2	(0.1)
Tunisia	9.7	(2.7)	18.9	(3.2)	42.3	(4.0)	29.1	(4.2)	12.6	(2.8)	30.9	(4.0)	36.7	(4.2)	19.8	(3.7)
United Arab Emirates	35.8	(2.0)	25.9	(2.0)	19.4	(1.9)	18.8	(1.8)	39.5	(2.7)	27.6	(2.3)	21.0	(2.1)	11.9	(1.5)
Uruguay	32.0	(2.7)	23.1	(2.8)	38.4	(3.3)	6.6	(1.6)	40.0	(3.0)	30.1	(3.0)	27.1	(2.5)	2.8	(0.9)
Viet Nam	48.6	(4.3)	22.8	(2.8)	24.7	(4.0)	3.9	(1.5)	34.4	(3.5)	44.5	(4.0)	15.0	(2.6)	6.1	(1.8)
Argentina**	35.2	(3.0)	20.2	(2.5)	32.5	(3.3)	12.1	(2.4)	35.7	(3.5)	40.4	(3.7)	21.0	(3.0)	2.9	(1.4)
Kazakhstan**	44.6	(4.2)	22.6	(3.2)	28.1	(3.6)	4.7	(1.5)	41.6	(3.2)	30.7	(3.4)	22.6	(3.2)	5.1	(1.8)
Malaysia**	31.5	(3.5)	58.4	(3.7)	9.3	(2.0)	0.8	(0.8)	27.6	(3.7)	55.4	(4.2)	16.3	(3.1)	0.7	(0.7)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** bttp://dx.doi.org/10.1787/888933436513



[Part 2/2]

Table II.6.14 Shortage of education staff

		D		-4					4 41	.l1/				to binde	a al Jane	
		Perce		A lack of a			rıncıpaı r	eportea t	nat the sc		,	•		is hinder assisting st		
	Not	at all	1	little		e extent	A	lot	Not	at all		little	•	e extent		lot
	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E
Australia	47.7	(2.1)	34.1	(2.0)	16.1	(1.5)	2.1	(0.7)	56.3	(1.8)	30.8	(1.8)	11.7	(1.4)	1.1	(0.5
Austria	18.4	(2.3)	20.9	(3.5)	34.8	(3.3)	25.9	(3.1)	55.8	(3.8)	16.6	(3.0)	16.1	(2.8)	11.6	(2
Belgium	28.9	(3.1)	33.6	(3.0)	29.7	(3.1)	7.7	(1.7)	34.7	(3.3)	45.8	(3.5)	18.5	(2.5)	1.0	(0.8
Canada Chile	34.4 46.7	(2.6)	33.2 36.1	(2.7)	28.2 12.5	(2.5)	4.2	(1.3)	47.1 49.2	(2.8)	37.8 36.5	(2.9)	12.7 12.8	(2.1)	2.4 1.5	(1.0
Czech Republic	55.5	(3.2)	17.5	(2.4)	22.2	(3.0)	4.8	(1.3)	71.3	(3.0)	19.2	(2.4)	7.5	(1.8)	2.0	(0.9
Denmark	59.8	(3.5)	18.9	(2.8)	16.6	(2.8)	4.7	(1.4)	76.2	(3.0)	15.5	(2.7)	6.2	(1.7)	2.1	(1.0
Estonia	37.2	(2.7)	25.1	(2.5)	26.8	(2.3)	10.8	(1.5)	52.7	(2.7)	31.2	(2.6)	14.4	(2.0)	1.7	(0.2
Finland	14.5	(2.4)	39.4	(3.9)	40.6	(3.8)	5.5	(1.7)	34.5	(3.8)	40.8	(4.3)	23.3	(3.5)	1.4	(1.0
France	29.4	(3.2)	36.3	(3.0)	29.4	(2.8)	4.9	(1.4)	37.8	(3.4)	44.6	(3.1)	15.9	(2.4)	1.8	(0.
Germany Greece	18.7 8.9	(3.0)	27.9 18.3	(3.5)	37.1 32.7	(3.4)	16.3 40.1	(2.8)	46.4 42.7	(3.1)	35.9 24.5	(3.2)	15.2 17.7	(2.4)	2.6 15.0	(2.3
Hungary	16.3	(2.8)	28.8	(3.3)	35.6	(3.6)	19.3	(2.9)	72.0	(3.0)	21.1	(2.9)	4.4	(1.1)	2.6	(1.
Iceland	45.5	(0.3)	26.7	(0.3)	26.4	(0.2)	1.3	(0.1)	45.4	(0.3)	43.7	(0.3)	10.9	(0.1)	0.0	(
Ireland	29.8	(3.4)	29.6	(3.8)	34.8	(3.7)	5.8	(2.1)	52.8	(4.2)	23.3	(3.7)	17.9	(3.3)	6.0	(2.
Israel	33.0	(3.5)	33.7	(3.6)	25.8	(3.5)	7.4	(2.6)	36.9	(3.6)	36.5	(3.7)	21.0	(3.3)	5.6	(2.2
Italy	22.3	(3.5)	32.3	(3.7)	34.7	(3.4)	10.7	(2.5)	30.9	(4.2)	37.0	(3.8)	25.7	(3.5)	6.4	(2.0
Japan Karaa	22.8 7.5	(2.9)	41.2 19.9	(3.3)	30.7 63.1	(3.5)	5.4 9.6	(1.5)	25.7 51.0	(3.0)	56.1 35.8	(3.5)	18.1 11.9	(2.8)	0.0 1.3	(0.9
Korea Latvia	45.2	(2.7)	27.4	(2.4)	20.3	(2.3)	7.1	(1.5)	63.7	(3.0)	21.9	(2.4)	10.2	(1.8)	4.2	(1.
Luxembourg	24.6	(0.1)	32.2	(0.1)	28.3	(0.1)	14.8	(0.1)	36.7	(0.1)	45.3	(0.1)	17.9	(0.1)	0.0	(1.
Mexico	28.0	(2.9)	25.3	(2.9)	26.3	(3.0)	20.4	(2.6)	46.8	(2.9)	33.6	(2.7)	16.7	(2.2)	3.0	(1.
Netherlands	60.8	(4.0)	29.3	(4.3)	10.0	(2.9)	0.0	С	48.4	(4.8)	36.7	(4.5)	10.8	(2.8)	4.1	(2.
New Zealand	47.1	(4.3)	33.8	(4.1)	18.5	(3.4)	0.7	(0.5)	66.4	(3.6)	25.8	(3.4)	7.9	(2.3)	0.0	
Norway	48.0	(3.5)	39.6	(3.6)	11.9	(2.4)	0.6	(0.6)	37.3	(3.3)	43.1	(3.4)	17.6	(2.6)	2.0	(1.
Poland Portugal	73.6 7.4	(3.4)	9.4	(2.5)	13.6 32.8	(2.8)	3.4 40.8	(1.2)	78.6 7.4	(3.1)	9.0 24.6	(2.4)	10.3 53.3	(2.3)	2.1 14.7	(1.
Slovak Republic	65.0	(3.0)	10.1	(2.0)	16.6	(2.4)	8.3	(1.5)	82.7	(2.5)	8.7	(1.8)	6.1	(1.4)	2.5	(1.
Slovenia	51.6	(0.6)	32.0	(0.4)	14.9	(0.6)	1.5	(0.0)	66.4	(0.6)	25.8	(0.6)	7.8	(0.4)	0.0	
Spain	21.0	(2.6)	19.0	(2.9)	35.4	(3.6)	24.6	(2.9)	57.9	(3.6)	30.1	(3.2)	7.7	(1.6)	4.3	(1.
Sweden	23.3	(3.3)	34.1	(3.6)	37.5	(3.5)	5.1	(1.5)	32.3	(3.5)	32.2	(3.5)	30.1	(3.7)	5.3	(1.
Switzerland	57.0	(4.1)	26.2	(3.9)	16.0	(2.6)	0.8	(0.8)	76.2	(3.1)	19.0	(2.8)	4.8	(1.7)	0.0	10
Turkey	22.8	(3.1)	24.0	(3.3)	27.9	(3.8)	25.3	(3.4)	24.1	(3.4)	24.9	(3.7)	34.1	(3.5)	16.8	(2.
United Kingdom United States	42.7 42.1	(4.0)	38.2 33.7	(3.7)	18.0 22.2	(2.5)	1.1 1.9	(0.7)	52.8 54.4	(4.0) (4.0)	35.1 33.8	(3.6)	12.0 10.2	(2.5)	0.0 1.6	(0.
OECD average	35.4	(0.5)	28.2	(0.5)	26.5	(0.5)	9.9	(0.3)	50.0	(0.6)	30.9	(0.5)	15.4	(0.4)	3.6	(0.2
Albania	36.1	(3.6)	25.7	(3.3)	22.3	(2.8)	15.9	(3.0)	46.1	(3.9)	23.2	(3.5)	20.7	(2.9)	10.1	(2
Algeria	19.7	(3.4)	33.7	(4.0)	28.3	(3.4)	18.3	(3.3)	33.0	(4.2)	29.2	(3.5)	26.4	(3.4)	11.5	(2.
Brazil	35.9	(2.6)	26.8	(2.6)	20.9	(2.1)	16.4	(1.8)	52.4	(2.8)	22.0	(2.3)	17.7	(2.5)	8.0	(1.
B-S-J-G (China)	21.9	(3.7)	29.3	(3.9)	40.1	(3.8)	8.6	(2.1)	19.8	(3.2)	31.5	(4.0)	37.3	(3.2)	11.3	(3.
Bulgaria	91.8 44.1	(1.9)	5.6	(1.9)	2.0	(0.6)	0.7	(0.7)	90.0	(2.2)	6.7	(2.0)	2.1	(1.1)	1.2	(0.
CABA (Argentina) Colombia	17.4	(7.8)	31.2 12.9	(6.6)	21.2 33.4	(6.3)	3.5 36.3	(2.0)	59.4 49.7	(7.2)	21.8 18.8	(6.0)	17.3 15.0	(4.4)	1.5 16.5	(1.
Costa Rica	22.2	(3.3)	18.9	(2.8)	25.0	(2.9)	33.9	(3.3)	29.9	(3.4)	20.0	(3.3)	21.0	(3.0)	29.2	(3.
Croatia	32.1	(3.9)	24.9	(3.5)	26.9	(3.6)	16.1	(2.9)	54.1	(4.1)	27.0	(3.6)	15.8	(2.9)	3.1	(1.
Cyprus*	44.5	(0.2)	25.5	(0.1)	21.0	(0.1)	9.1	(0.1)	47.0	(0.1)	32.4	(0.2)	16.4	(0.1)	4.2	(0.
Dominican Republic	46.9	(3.8)	23.6	(3.4)	17.8	(3.6)	11.7	(2.5)	60.5	(3.6)	24.7	(3.0)	12.3	(2.6)	2.5	(1.
FYROM	64.8	(0.2)	12.0	(0.1)	16.6	(0.2)	6.6	(0.1)	75.0	(0.1)	9.6	(0.1)	11.6	(0.1)	3.8	(0.
Georgia	44.7	(2.9)	27.5	(3.0)	23.2	(2.9)	4.5	(1.5)	57.9	(3.0)	24.5	(3.1)	14.3	(2.2)	3.3	(1.
Hong Kong (China) Indonesia	37.2 38.4	(3.9)	37.9 30.8	(4.1)	21.6	(3.4)	3.3 7.1	(1.5) (1.9)	45.9 47.0	(4.6)	46.7 32.1	(4.8)	7.4 18.3	(2.4)	0.0 2.6	(1.
Jordan	27.1	(2.9)	24.3	(3.2)	28.7	(3.2)	19.8	(2.7)	25.5	(3.4)	31.2	(3.6)	26.5	(3.4)	16.9	(2.
Kosovo	47.7	(1.2)	19.1	(1.0)	23.6	(1.1)	9.6	(0.9)	59.5	(1.3)	20.5	(1.0)	13.9	(1.0)	6.1	(0.
Lebanon	40.6	(3.2)	29.1	(3.1)	19.8	(2.9)	10.5	(2.4)	52.8	(3.5)	31.3	(3.9)	8.9	(1.7)	7.0	(1.
Lithuania	58.4	(2.9)	20.4	(2.3)	17.9	(2.4)	3.2	(0.9)	63.4	(3.0)	24.3	(2.6)	11.7	(2.1)	0.5	(0.
Macao (China) Malta	35.0 35.9	(0.1)	38.8 15.6	(0.1)	24.4 37.4	(0.1)	1.9	(0.0)	26.9 46.0	(0.1)	50.6 29.9	(0.1)	18.2 18.2	(0.1)	4.3 5.9	(0.
Moldova	75.5	(3.2)	11.9	(2.4)	10.8	(2.1)	1.8	(1.0)	62.9	(3.7)	21.8	(2.8)	12.9	(2.7)	2.4	(1.
Montenegro	79.1	(0.4)	18.4	(0.2)	1.8	(0.3)	0.6	(0.2)	85.5	(0.3)	8.7	(0.2)	2.9	(0.2)	2.8	(0.
Peru	28.8	(2.8)	29.4	(3.1)	19.3	(2.7)	22.6	(2.5)	34.5	(3.1)	34.2	(3.2)	18.0	(2.6)	13.3	(2.
Qatar	59.4	(0.1)	29.4	(0.1)	8.0	(0.1)	3.2	(0.0)	69.5	(0.1)	21.0	(0.1)	8.3	(0.1)	1.2	(0.
Romania	45.7	(3.7)	24.5	(3.3)	25.6	(3.4)	4.2	(1.7)	41.6	(3.9)	28.4	(3.9)	25.3	(3.6)	4.7	(1.
Russia	41.8	(4.9)	28.9	(3.5)	22.9	(3.6)	6.3 0.0	(1.8)	56.9 57.6	(3.9)	23.5	(3.2)	16.7	(3.5)	2.9	(1.
Singapore Chinese Taipei	47.3 32.9	(1.2)	40.0 34.5	(1.0)	12.7 28.7	(0.7)	3.9	(1.3)	57.6 25.2	(0.7)	34.6 63.3	(0.3)	7.8 11.2	(0.7)	0.0	(0.
Thailand	34.1	(4.0)	18.0	(3.1)	25.5	(3.4)	22.4	(3.7)	52.8	(4.0)	21.6	(3.1)	14.3	(2.9)	11.2	(2.
Trinidad and Tobago	8.4	(0.2)	30.1	(0.3)	44.8	(0.3)	16.8	(0.2)	22.0	(0.2)	43.9	(0.3)	27.6	(0.3)	6.5	(0.
Tunisia	3.9	(1.7)	14.7	(3.2)	45.6	(4.6)	35.8	(4.5)	8.9	(2.6)	24.0	(3.6)	41.5	(4.7)	25.5	(4.
United Arab Emirates	39.0	(2.4)	24.4	(2.5)	25.9	(2.2)	10.7	(1.3)	45.6	(2.5)	26.5	(2.2)	20.3	(1.9)	7.6	(1.
Uruguay	28.5	(2.6)	16.4	(2.3)	36.6	(3.1)	18.5	(2.5)	37.8	(3.3)	22.8	(2.6)	27.7	(2.4)	11.7	(2.
Viet Nam	43.8	(4.0)	21.4	(3.2)	25.8	(3.4)	9.0	(1.8)	47.2	(4.7)	25.3	(3.9)	20.7	(3.4)	6.8	(1.
Argentina**	33.1 55.7	(3.5)	22.5	(3.4)	30.2 24.0	(3.7)	14.2 2.3	(2.8)	56.8 59.2	(4.2)	21.5 21.0	(3.3)	15.8	(2.9)	6.0	(1.
Kazakhstan**		(3.5)	18.0	(2.7)		(3.1)		(1.3)		(3.3)		(2.1)	16.0	(2.7)	3.9	(1.

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** bttp://dx.doi.org/10.1787/888933436513



[Part 1/3]

Table II.6.15 Index of shortage of education staff¹, science performance and school characteristics

		All st	udents					By sch	ool socio-	economic	profile ²			
	Ave	erage	Vari	ability	Bottom	quarter	Second	l quarter	Third	quarter	Тор с	Juarter		oottom irter
	Mean index	S.E.	S.D.	S.E.	Mean index	S.E.	Mean index	S.E.	Mean index	S.E.	Mean score	S.E.	Dif.	S.E.
Australia	-0.35	(0.03)	1.00	(0.02)	0.13	(0.08)	-0.11	(0.07)	-0.44	(0.09)	-0.92	(0.08)	-1.06	(0.11
Australia Austria Belgium	0.18	(0.07)	0.96	(0.04)	0.23	(0.16)	-0.02	(0.11)	0.17	(0.16)	0.35	(0.14)	0.12	(0.22
9	0.23	(0.06)	0.80	(0.04)	0.35	(0.13)	0.31	(0.11)	0.14	(0.13)	0.15	(0.11)	-0.20	(0.16
Canada	-0.20	(0.06)	0.99	(0.04)	-0.05	(0.09)	-0.15	(0.12)	-0.17	(0.13)	-0.41	(0.15)	-0.36	(0.18
Chile Czech Republic	-0.23 -0.44	(0.08)	1.00 0.90	(0.06)	-0.21 -0.21	(0.17)	0.30 -0.25	(0.16)	-0.25 -0.52	(0.19)	-0.69 -0.77	(0.12)	-0.48 -0.56	(0.19
Denmark	-0.70	(0.06)	0.94	(0.03)	-0.35	(0.16)	-0.70	(0.14)	-0.86	(0.13)	-0.90	(0.15)	-0.55	(0.10
Estonia	0.07	(0.05)	0.92	(0.03)	0.18	(0.15)	-0.12	(0.14)	-0.06	(0.11)	0.29	(0.08)	0.11	(0.16
Finland	0.00	(0.06)	0.76	(0.04)	0.00	(0.14)	0.20	(0.14)	-0.18	(0.12)	-0.03	(0.13)	-0.04	(0.19
France	0.17	(0.05)	0.80	(0.04)	0.20	(0.15)	0.07	(0.12)	0.11	(0.11)	0.29	(0.10)	0.09	(0.18
Germany	0.41	(0.06)	0.82	(0.05)	0.64	(0.09)	0.43	(0.12)	0.18	(0.15)	0.39	(0.13)	-0.25	(0.15
Greece	0.61	(0.07)	1.01	(0.07)	0.69	(0.17)	0.63	(0.13)	0.60	(0.15)	0.52	(0.17)	-0.17	(0.24
Hungary	0.09	(0.05)	0.72	(0.04)	0.26	(0.09)	0.15	(0.11)	0.09	(0.09)	-0.13	(0.12)	-0.39	(0.15
Iceland	-0.26 0.12	(0.01)	0.89	(0.00)	-0.33	(0.01)	0.05	(0.01)	-0.40	(0.01)	-0.35	(0.01)	-0.02	(0.01
Ireland Israel	0.12	(0.07)	0.93	(0.06)	0.18	(0.15)	0.14	(0.16)	0.21 0.19	(0.17)	-0.03 0.14	(0.20)	-0.21 -0.59	(0.25
Italy	0.35	(0.03)	0.97	(0.10)	0.49	(0.27)	0.27	(0.17)	0.19	(0.10)	0.14	(0.14)	-0.23	(0.20
Japan	0.49	(0.05)	0.68	(0.04)	0.57	(0.09)	0.41	(0.13)	0.55	(0.12)	0.44	(0.09)	-0.13	(0.13
Korea	0.19	(0.06)	0.76	(0.05)	0.11	(0.13)	0.06	(0.13)	0.26	(0.13)	0.35	(0.14)	0.24	(0.18
Latvia	-0.21	(0.06)	1.03	(0.06)	-0.11	(0.11)	-0.39	(0.19)	-0.25	(0.13)	-0.10	(0.10)	0.01	(0.16
Luxembourg	0.39	(0.00)	0.71	(0.00)	0.30	(0.01)	0.55	(0.00)	0.84	(0.00)	-0.11	(0.00)	-0.40	(0.0)
Mexico	0.10	(0.05)	0.95	(0.04)	0.27	(0.12)	0.20	(0.14)	0.44	(0.13)	-0.51	(0.11)	-0.79	(0.18
Netherlands	0.01	(0.07)	0.76	(0.05)	0.21	(0.22)	-0.06	(0.17)	0.08	(0.15)	-0.16	(0.15)	-0.37	(0.26
New Zealand	-0.42	(0.08)	0.92	(0.04)	-0.06	(0.18)	-0.17	(0.20)	-0.65	(0.14)	-0.70	(0.09)	-0.64	(0.21
Norway Poland	-0.11 -1.09	(0.06)	0.83	(0.04)	-1.13	(0.11)	-0.13 -0.86	(0.12)	-0.05 -1.18	(0.12)	-0.36 -1.17	(0.12)	-0.43 -0.03	(0.16
Portugal	0.93	(0.05)	0.89	(0.05)	1.04	(0.10)	1.18	(0.14)	0.83	(0.13)	0.68	(0.18)	-0.03 - 0.35	(0.14
Slovak Republic	-0.81	(0.05)	0.02	(0.04)	-0.63	(0.10)	-0.80	(0.14)	-0.81	(0.13)	-1.00	(0.03)	-0.38	(0.18
Slovenia	-0.52	(0.01)	0.94	(0.01)	-0.52	(0.04)	-0.21	(0.03)	-0.71	(0.02)	-0.63	(0.01)	-0.12	(0.04
Spain	0.27	(0.06)	0.99	(0.05)	0.51	(0.12)	0.58	(0.14)	0.33	(0.15)	-0.33	(0.12)	-0.84	(0.1)
Sweden	0.35	(0.08)	1.04	(0.06)	0.76	(0.13)	0.46	(0.18)	0.17	(0.17)	0.00	(0.19)	-0.75	(0.2
Switzerland	-0.43	(0.06)	0.83	(0.04)	-0.29	(0.14)	-0.49	(0.14)	-0.38	(0.12)	-0.55	(0.12)	-0.26	(0.19
Turkey	0.53	(0.08)	1.11	(0.06)	0.83	(0.13)	0.96	(0.15)	0.33	(0.21)	0.00	(0.19)	-0.83	(0.23
United Kingdom	-0.12	(0.08)	0.90	(0.04)	0.01	(0.11)	-0.08	(0.19)	-0.03	(0.19)	-0.34	(0.11)	-0.36	(0.16
United States	-0.29	(80.0)	1.04	(0.06)	0.22	(0.17)	-0.32	(0.18)	-0.42	(0.17)	-0.62	(0.16)	-0.84	(0.22
OECD average	-0.01	(0.01)	0.90	(0.01)	0.15	(0.02)	0.07	(0.02)	-0.04	(0.02)	-0.20	(0.02)	-0.34	(0.03
Albania	-0.07	(0.09)	1.11	(0.06)	-0.09	(0.17)	-0.34	(0.17)	0.24	(0.28)	-0.09	(0.16)	0.00	(0.23
Albania Algeria Brazil	0.41	(0.09)	1.03	(0.07)	0.57	(0.22)	0.36	(0.17)	0.26	(0.22)	0.43	(0.18)	-0.14	(0.28
Brazil B-S-J-G (China)	-0.07 0.87	(0.06)	1.17	(0.05)	0.07 1.39	(0.13)	0.29 1.13	(0.11) (0.15)	-0.04 0.59	(0.14) (0.19)	-0.58 0.38	(0.13)	-0.64 -1.02	(0.19
Bulgaria	-1.14	(0.06)	0.73	(0.04)	-1.05	(0.10)	-1.03	(0.13)	-1.27	(0.19)	-1.23	(0.13)	-0.18	(0.13
CABA (Argentina)	-0.16	(0.13)	1.03	(0.04)	0.26	(0.16)	0.23	(0.17)	-0.15	(0.11)	-1.14	(0.26)	-1.39	(0.35
Colombia	0.47	(0.07)	1.20	(0.05)	0.80	(0.14)	0.71	(0.16)	0.52	(0.16)	-0.13	(0.16)	-0.93	(0.2
Costa Rica	0.91	(0.11)	1.41	(0.06)	0.93	(0.23)	1.03	(0.21)	0.53	(0.21)	1.17	(0.23)	0.24	(0.3
Croatia	-0.02	(0.08)	0.93	(0.05)	0.03	(0.18)	0.06	(0.18)	-0.03	(0.17)	-0.13	(0.14)	-0.15	(0.22
Cyprus*	0.06	(0.00)	1.11	(0.00)	0.04	(0.01)	0.81	(0.01)	-0.27	(0.01)	-0.34	(0.00)	-0.38	(0.0)
Dominican Republic	-0.22	(0.08)	1.10	(0.06)	0.13	(0.17)	-0.02	(0.19)	-0.20	(0.24)	-0.79	(0.15)	-0.93	(0.2
FYROM	-0.90	(0.00)	0.99	(0.00)	-1.37	(0.01)	-0.76	(0.01)	-0.57	(0.01)	-0.86	(0.01)	0.51	(0.0)
Georgia	-0.34	(0.06)	1.02	(0.05)	-0.25	(0.15)	-0.36	(0.12)	-0.42	(0.16)	-0.33	(0.13)	-0.07	(0.19
Hong Kong (China) Indonesia	-0.20 -0.12	(0.08)	0.94	(0.05)	-0.11	(0.22)	-0.28 0.06	(0.17) (0.16)	-0.33 -0.18	(0.18) (0.17)	-0.10 -0.44	(0.19)	0.01 -0.51	(0.2
Jordan	0.88	(0.06)	1.09	(0.04)	1.40	(0.16)	0.06	(0.16)	1.34	(0.17)	0.43	(0.13)	-0.51	(0.2
Kosovo	-0.16	(0.10)	1.05	(0.07)	-0.07	(0.23)	-0.13	(0.13)	-0.20	(0.13)	-0.23	(0.06)	-0.16	(0.2
Lebanon	-0.14	(0.07)	1.06	(0.05)	0.33	(0.15)	-0.17	(0.19)	-0.23	(0.18)	-0.48	(0.14)	-0.81	(0.2
Lithuania	-0.48	(0.05)	0.90	(0.03)	-0.42	(0.10)	-0.71	(0.11)	-0.47	(0.13)	-0.31	(0.10)	0.10	(0.1
Macao (China)	0.23	(0.00)	1.19	(0.00)	0.75	(0.00)	0.27	(0.00)	0.22	(0.00)	-0.30	(0.00)	-1.05	(0.0)
Malta	-0.20	(0.00)	1.09	(0.00)	0.37	(0.01)	-0.62	(0.01)	-0.31	(0.01)	-0.22	(0.01)	-0.59	(0.0)
Moldova	-0.35	(0.07)	0.96	(0.04)	-0.26	(0.11)	-0.30	(0.14)	-0.50	(0.15)	-0.34	(0.20)	-0.08	(0.2
Montenegro	-1.01	(0.01)	0.76	(0.01)	-0.73	(0.03)	-1.17	(0.02)	-1.18	(0.01)	-0.97	(0.01)	-0.24	(0.0)
Peru	0.34	(0.07)	1.12	(0.06)	0.79	(0.11)	0.75	(0.15)	0.27	(0.11)	-0.46	(0.16)	-1.26	(0.1
Qatar Romania	-0.71 -0.42	(0.00)	1.06 0.98	(0.00) (0.04)	-0.71 -0.38	(0.00)	-0.72 -0.37	(0.00)	-0.48 -0.65	(0.00)	-0.95 -0.26	(0.01)	-0.24 0.13	(0.0
Russia	0.08	(0.10)	1.08	(0.04)	0.29	(0.13)	0.05	(0.23)	0.01	(0.21)	-0.26	(0.25)	-0.33	(0.2
Singapore	-0.48	(0.10)	0.95	(0.04)	-0.45	(0.13)	-0.43	(0.13)	-0.41	(0.21)	-0.61	(0.23)	-0.16	(0.3
Chinese Taipei	0.10	(0.05)	0.75	(0.05)	0.13	(0.12)	0.39	(0.15)	0.18	(0.12)	0.04	(0.11)	-0.19	(0.1
Thailand	0.27	(0.09)	1.14	(0.06)	0.46	(0.18)	0.31	(0.23)	0.20	(0.20)	0.12	(0.16)	-0.33	(0.2
Trinidad and Tobago	0.63	(0.01)	0.92	(0.01)	0.66	(0.01)	0.56	(0.01)	0.80	(0.01)	0.50	(0.01)	-0.16	(0.0)
Tunisia	1.36	(0.10)	1.03	(0.09)	1.36	(0.12)	1.36	(0.22)	1.34	(0.21)	1.38	(0.23)	0.02	(0.2
	0.16	(0.06)	1.39	(0.04)	0.88	(0.19)	0.22	(0.14)	0.03	(0.14)	-0.50	(0.12)	-1.38	(0.2
United Arab Emirates	0.34	(0.07)	1.20	(0.05)	0.65	(0.13)	0.45	(0.18)	0.61	(0.14)	-0.34	(0.15)	-0.99	(0.1
Uruguay		(0.00)	1.05											
Uruguay Viet Nam	0.05	(0.09)	1.05	(0.06)	0.00	(0.15)	0.26	(0.22)	-0.07	(0.18)	0.02	(0.18)	0.02	
Uruguay		(0.09) (0.08) (0.09)	1.05 1.06 1.12	(0.06) (0.05) (0.08)	0.00	(0.15) (0.15) (0.19)	0.26 0.25 -0.36	(0.22) (0.16) (0.18)	-0.07 0.13 -0.29	(0.18) (0.20) (0.16)	-0.02 -0.01 -0.16	(0.18) (0.17) (0.21)	-0.19 -0.31	(0.2

^{1.} Higher values in the index indicate a greater shortage of educational staff.
2. The socio-economic profile is measured by the PISA index of economic, social and cultural status.

Note: Values that are statistically significant are indicated in bold (see Annex A3).

*See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 2/3]

Table II.6.15 Index of shortage of education staff¹, science performance and school characteristics

					By schoo	l location						By type	of school		
			a or village		own		ity								
			er than people)		000 to 0 people)	100 000	ver) people)	City - r	ural area	Pu	blic	Pri	vate	Private	- public
		Mean index	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.E.	Mean index	S.E.	Mean index	S.E.	Dif.	S.E.
9	Australia	0.02	(0.26)	-0.06	(80.0)	-0.49	(0.05)	-0.50	(0.27)	-0.05	(0.05)	-0.73	(0.06)	-0.69	(0.08)
OECD	Austria Belgium	-0.42	(0.25) (0.32)	0.08	(0.10) (0.07)	0.27	(0.11)	-0.16 0.79	(0.28) (0.35)	0.18	(0.08)	0.11	(0.14)	-0.07	(0.16)
_	Canada	0.38	(0.32)	-0.25	(0.10)	-0.24	(0.10)	-0.61	(0.33)	-0.15	(0.06)	-0.73	(0.15)	-0.58	(0.17)
	Chile	0.30	(0.32)	-0.08	(0.13)	-0.33	(0.11)	-0.62	(0.34)	0.37	(0.11)	-0.58	(0.10)	-0.95	(0.15)
	Czech Republic	-0.18	(0.14)	-0.46	(0.07)	-0.50	(0.12)	-0.32	(0.19)	-0.40	(0.06)	-0.82	(0.15)	-0.42	(0.16)
	Denmark	-0.70	(0.14)	-0.69	(80.0)	-0.76	(0.16)	-0.06	(0.21)	-0.55	(0.08)	-1.21	(0.10)	-0.66	(0.13)
	Estonia	0.26	(0.15)	-0.04	(0.06)	0.11	(0.08)	-0.15	(0.17)	0.07	(0.05)	0.11	(0.24)	0.05	(0.24)
	Finland France	-0.16 -0.16	(0.16) (0.23)	0.08	(0.07)	-0.11 0.11	(0.12)	0.04	(0.18)	0.04	(0.06)	-0.96 0.38	(0.34) (0.09)	-1.00 0.28	(0.35)
	Germany	0.25	(0.23)	0.21	(0.08)	0.52	(0.13)	0.27	(0.27)	0.10	(0.06)	-0.43	(0.03)	-0.91	(0.12)
	Greece	0.50	(0.30)	0.52	(0.09)	0.76	(0.13)	0.26	(0.33)	0.70	(0.08)	-1.14	(0.21)	-1.85	(0.22)
	Hungary	0.04	(0.18)	0.09	(0.07)	0.10	(0.08)	0.06	(0.19)	0.21	(0.05)	-0.42	(0.10)	-0.63	(0.11)
	Iceland	-0.48	(0.02)	-0.15	(0.01)	-0.31	(0.01)	0.17	(0.02)	-0.27	(0.01)	С	C	C	(0.4.5)
	Ireland Israel	0.10	(0.20)	0.20	(0.10)	-0.02 0.19	(0.16) (0.14)	-0.13 -0.37	(0.26)	0.13 m	(0.11)	0.12	(0.10) m	-0.01 m	(0.15) m
	Italy	0.33	(0.16)	0.37	(0.13)	0.19	(0.14)	0.21	(0.22)	0.41	m (0.08)	-0.93	(0.22)	-1.33	(0.24)
	Japan	С	(0.55) C	0.49	(0.08)	0.49	(0.06)	C	(0.50) C	0.49	(0.05)	0.50	(0.10)	0.02	(0.11)
	Korea	С	С	0.14	(0.10)	0.19	(0.07)	С	С	0.22	(0.07)	0.15	(0.11)	-0.07	(0.13)
	Latvia	0.01	(0.10)	-0.31	(0.10)	-0.20	(0.10)	-0.21	(0.14)	-0.21	(0.07)	-0.45	(0.23)	-0.24	(0.24)
	Luxembourg Mexico	m 0.02	m (0.12)	0.56	(0.00)	0.17	(0.00)	m	(0.16)	0.54	(0.00)	-0.40	(0.00)	-0.94	(0.00)
	Netherlands	0.02 c	(0.12) c	0.28	(0.10) (0.08)	-0.01 0.09	(0.08)	-0.04 c	(0.16) c	-0.01	(0.05)	-0.87 0.03	(0.08)	-1.11 0.04	(0.10)
	New Zealand	-0.05	(0.31)	-0.25	(0.12)	-0.58	(0.13)	-0.53	(0.33)	-0.01	(0.13)	-1.02	(0.07)	-0.65	(0.13)
	Norway	-0.03	(0.14)	-0.06	(0.07)	-0.31	(0.16)	-0.28	(0.23)	-0.10	(0.06)	-0.72	(0.44)	-0.62	(0.44)
	Poland	-0.99	(0.10)	-1.21	(0.11)	-1.01	(0.15)	-0.02	(0.18)	-1.08	(0.07)	-1.12	(0.28)	-0.04	(0.29)
	Portugal	0.95	(0.18)	0.99	(0.07)	0.72	(0.11)	-0.23	(0.21)	1.02	(0.05)	-0.60	(0.15)	-1.62	(0.16)
	Slovak Republic Slovenia	-0.36 -0.64	(0.09)	-0.89 -0.57	(0.08)	-1.01 -0.40	(0.15)	-0.65 0.24	(0.17)	-0.78 -0.52	(0.06)	-1.04 -0.57	(0.14)	-0.26 - 0.05	(0.14)
	Spain	-0.64	(0.11) (0.39)	0.39	(0.07)	0.10	(0.01)	0.24	(0.11)	0.57	(0.01)	-0.37	(0.01)	-0.03	(0.01)
	Sweden	0.53	(0.26)	0.37	(0.09)	0.25	(0.16)	-0.29	(0.31)	0.40	(0.08)	0.12	(0.17)	-0.28	(0.17
	Switzerland	-0.20	(0.19)	-0.48	(0.07)	-0.32	(0.17)	-0.12	(0.25)	-0.41	(0.06)	-0.65	(0.22)	-0.24	(0.23)
	Turkey	0.60	(0.55)	0.74	(0.14)	0.38	(0.11)	-0.21	(0.56)	0.57	(80.0)	-0.54	(0.41)	-1.12	(0.41)
	United Kingdom	-0.13	(0.23)	-0.17	(0.09)	0.04	(0.13)	0.18	(0.27)	-0.05	(0.07)	-1.04	(0.20)	-1.00	(0.19)
	United States	-0.30	(0.32)	-0.39	(0.11)	-0.15	(0.15)	0.15	(0.36)	-0.23	(0.09)	-0.92	(0.21)	-0.69	(0.22)
	OECD average	0.00	(0.04)	0.01	(0.02)	-0.04	(0.02)	-0.09	(0.05)	0.07	(0.01)	-0.50	(0.03)	-0.58	(0.04)
Partners	Albania	0.11	(0.21) (0.26)	-0.05 0.35	(0.14) (0.11)	-0.26 0.41	(0.14) (0.21)	-0.37 -0.21	(0.27)	0.04	(0.10) (0.09)	-0.93	(0.26)	-0.97	(0.29)
Ę	Algeria Brazil	-0.37	(0.21)	0.07	(0.11)	-0.21	(0.10)	0.16	(0.23)	0.38	(0.06)	-1.40	(0.09)	-1.54	(0.11)
2	B-S-J-G (China)	1.57	(0.32)	1.01	(0.10)	0.52	(0.15)	-1.05	(0.33)	0.88	(0.09)	0.67	(0.30)	-0.20	(0.32)
	Bulgaria	-0.72	(0.26)	-1.14	(0.06)	-1.19	(0.09)	-0.47	(0.28)	-1.14	(0.06)	С	С	С	C
	CABA (Argentina)	m	m	С	C	-0.16	(0.14)	m	m	0.33	(0.21)	-0.67	(0.15)	-1.00	(0.26
	Colombia	0.68	(0.20)	0.47	(0.15)	0.39	(0.09)	-0.28	(0.23)	0.87	(0.08)	-0.73	(0.11)	-1.59	(0.14
	Costa Rica Croatia	0.65 c	(0.18) c	1.05 -0.11	(0.13)	0.71	(0.34) (0.13)	0.05 c	(0.38) c	0.90	(0.11) (0.08)	0.99 c	(0.29) c	0.09 c	(0.30
	Cyprus*	-0.25	(0.01)	0.23	(0.00)	-0.21	(0.00)	0.04	(0.02)	0.24	(0.00)	-0.88	(0.01)	-1.13	(0.01
	Dominican Republic	0.04	(0.21)	-0.09	(0.11)	-0.76	(0.17)	-0.80	(0.27)	-0.08	(0.10)	-0.74	(0.16)	-0.65	(0.18
	FYROM	-0.22	(0.01)	-1.06	(0.00)	-0.74	(0.00)	-0.52	(0.01)	-0.89	(0.00)	-1.59	(0.00)	-0.71	(0.00
	Georgia	-0.38	(0.09)	-0.42	(0.13)	-0.23	(0.12)	0.15	(0.15)	-0.28	(0.07)	-0.86	(0.22)	-0.58	(0.22
	Hong Kong (China) Indonesia	0.15	m (0.13)	-0.18	m (0.11)	-0.20 -0.51	(0.08)	-0.66	m (0.20)	-0.05	(0.15)	-0.25 -0.23	(0.08)	-0.68 -0.17	(0.17)
	Indonesia	0.15	(0.13)	1.09	(0.11)	0.57	(0.13)	-0.37	(0.28)	0.96	(0.08)	0.64	(0.11)	-0.17	(0.13)
	Kosovo	-0.27	(0.12)	-0.14	(0.04)	-0.15	(0.04)	0.12	(0.13)	-0.13	(0.03)	-1.35	(0.20)	-1.22	(0.20)
	Lebanon	0.07	(0.21)	-0.18	(0.09)	-0.14	(0.13)	-0.21	(0.25)	0.17	(0.12)	-0.43	(0.09)	-0.60	(0.15)
	Lithuania	-0.41	(0.10)	-0.58	(0.09)	-0.40	(0.08)	0.01	(0.13)	-0.48	(0.05)	-0.47	(0.49)	0.01	(0.50)
	Macao (China)	C 0.64	(0, 00)	C 0.12	(O, OO)	0.23	(0.00)	C	C	-0.23	(0.00)	-0.23	(0.00)	0.00	(0.01
	Malta Moldova	-0.64 -0.34	(0.00) (0.10)	-0.12 -0.28	(0.00) (0.12)	-0.56	m (0.21)	-0.22	m (0.23)	-0.23	(0.00)	-0.23 C	(0.00) C	0.00 c	(0.01
	Montenegro	-0.54 C	(0.10) C	-0.26	(0.12)	-1.10	(0.21)	-0.22 C	(U.23)	-1.01	(0.07)	c	С	С	,
	Peru	0.61	(0.12)	0.29	(0.09)	-0.04	(0.19)	-0.65	(0.23)	0.71	(80.0)	-0.49	(0.11)	-1.20	(0.14
	Qatar	-0.04	(0.01)	-0.54	(0.00)	-0.93	(0.00)	-0.90	(0.01)	-0.66	(0.00)	-0.76	(0.00)	-0.09	(0.00
	Romania	-0.74	(0.16)	-0.34	(0.09)	-0.44	(0.16)	0.30	(0.22)	-0.40	(0.07)	С	С	С	
	Russia Singapore	0.33 m	(0.16) m	0.07 m	(0.17) m	0.01 -0.49	(0.16) (0.03)	-0.32 m	(0.21)	0.07 -0.47	(0.10)	-0.58	(0.25)	-0.11	(0.25
	Chinese Taipei	C	C	0.25	(0.09)	0.17	(0.03)	C	m C	0.23	(0.06)	0.17	(0.25)	-0.11	(0.25
	Thailand	0.28	(0.24)	0.26	(0.12)	0.33	(0.19)	0.05	(0.33)	0.34	(0.10)	-0.06	(0.15)	-0.40	(0.18
	Trinidad and Tobago	0.70	(0.02)	0.61	(0.01)	m	m	m	m	0.66	(0.01)	0.11	(0.02)	-0.55	(0.02
	Tunisia	1.28	(0.25)	1.37	(0.11)	1.33	(0.25)	0.06	(0.36)	1.41	(0.10)	-0.54	(0.41)	-1.94	(0.42
	United Arab Emirates	1.15	(0.23)	0.35	(0.12)	-0.05	(0.08)	-1.20	(0.25)	0.86	(0.10)	-0.34	(0.07)	-1.20	(0.12
	Uruguay Viet Nam	0.30	(0.26) (0.12)	0.50 0.11	(0.09) (0.14)	0.12 -0.08	(0.13) (0.20)	-0.17 -0.17	(0.29) (0.23)	0.57	(0.08)	-0.90 -0.47	(0.19) (0.32)	-1.47 -0.53	(0.21
	Argentina**	0.03	(0.18)	0.19	(0.11)	0.08	(0.12)	0.05	(0.20)	0.41	(0.09)	-0.79	(0.13)	-1.21	(0.15
	Kazakhstan**	0.01	(0.17)	-0.36	(0.14)	-0.20	(0.13)	-0.21	(0.20)	-0.18	(0.09)	0.00	(0.55)	0.17	(0.55)

^{1.} Higher values in the index indicate a greater shortage of educational staff.
2. The socio-economic profile is measured by the PISA index of economic, social and cultural status.

Note: Values that are statistically significant are indicated in bold (see Annex A3).

** See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 3/3]

Table II.6.15 Index of shortage of education staff¹, science performance and school characteristics

				By educa	ation level			Befor and scho	e account ools' socio	ing for stud economic	dents' profile ²			ng for stud o-economi	
		educ	econdary cation ED 2)	educ	econdary cation ED 3)	ISCED 3	- ISCED 2	Cha in the scie per unit on the of sho of educa	ence score increase index ortage	in stu perfor	I variance udent mance ed x 100)	Cha in the scie per unit on the of sho of educat	nce score increase index rtage	Explained in st perfor	d varianc udent mance ed x 100
		Mean index	S.E.	Mean index	S.E.	Dif.	S.E.	Score dif.	S.E.	%	S.E.	Score dif.	S.E.	%	S.E.
9	Australia	-0.37	(0.04)	-0.25	(0.07)	0.11	(0.07)	-18	(2.1)	3.1	(0.7)	-3	(1.9)	16.6	(1.1)
	Austria	0.51	(0.12)	0.18	(0.07)	-0.34	(0.13)	0	(5.3)	0.0	(0.2)	-2	(3.7)	31.2	(1.9)
	Belgium	0.34	(0.10)	0.23	(0.06)	-0.11	(0.10)	-14	(5.3)	1.2	(1.0)	-5	(2.8)	35.9	(2.1)
	Canada Chile	-0.15 0.05	(0.07)	-0.20 -0.25	(0.06)	-0.05 -0.30	(0.07)	-6 -15	(2.1)	0.4 3.1	(0.3)	-2 -4	(1.7)	11.0 26.8	(1.1)
	Czech Republic	-0.30	(0.07)	-0.60	(0.08)	-0.31	(0.17)	-17	(5.6)	2.7	(1.6)	-4	(2.8)	33.5	(2.1)
	Denmark	-0.70	(0.06)	C	(0.00) C	C	(0.10) C	-7	(3.2)	0.6	(0.5)	-3	(2.6)	12.0	(1.4)
	Estonia	0.08	(0.05)	-0.19	(0.20)	-0.26	(0.20)	3	(2.6)	0.1	(0.2)	3	(2.4)	10.9	(1.3)
	Finland	0.00	(0.06)	С	С	С	С	-7	(3.0)	0.3	(0.2)	-4	(2.1)	11.0	(1.3)
	France	0.13	(0.12)	0.18	(0.06)	0.04	(0.12)	1	(6.7)	0.0	(0.2)	0	(2.7)	37.4	(2.3)
	Germany	0.40	(0.06)	0.61	(0.18)	-0.30	(0.18)	-15 -3	(5.2) (4.1)	1.5 0.1	(1.0) (0.3)	-4 5	(3.9)	35.1 23.6	(2.4)
	Greece Hungary	0.09	(0.17)	0.00	(0.05)	-0.04	(0.13)	-20	(6.1)	2.2	(1.4)	-2	(4.0)	43.7	(2.0)
	Iceland	-0.26	(0.01)	m	(0.03) m	m	(0.13) m	-1	(1.9)	0.0	(0.0)	0	(1.9)	5.0	(0.8)
	Ireland	0.11	(0.07)	0.14	(0.08)	0.02	(0.03)	-6	(3.3)	0.4	(0.4)	-2	(2.1)	15.5	(1.4)
	Israel	0.59	(0.08)	0.31	(0.10)	-0.28	(0.11)	-6	(5.8)	0.4	(0.8)	1	(3.4)	23.2	(2.4)
	Italy	0.74	(0.31)	0.35	(0.08)	-0.39	(0.33)	1	(4.6)	0.0	(0.3)	4	(3.6)	24.5	(2.5)
	Japan	m	m	0.49	(0.05)	m	m	-7	(6.9)	0.3	(0.6)	0	(4.2)	28.1	(2.4)
	Korea Latvia	0.40	(0.10)	0.17	(0.07)	-0.22	(0.12)	1	(4.9)	0.0	(0.1)	-3	(3.4)	17.9	(2.1)
	Latvia Luxembourg	-0.21 0.47	(0.07)	-0.40 0.29	(0.10)	-0.19 -0.18	(0.10)	- 15	(2.1)	0.1 1.1	(0.2)	3 4	(1.9)	12.5 34.5	(1.4)
	Mexico	0.17	(0.09)	0.05	(0.07)	-0.12	(0.12)	-10	(2.6)	1.7	(0.2)	1	(2.1)	17.2	(2.0)
	Netherlands	0.05	(0.08)	-0.07	(0.09)	-0.12	(0.10)	-14	(8.6)	1.2	(1.6)	-8	(5.9)	35.9	(4.5)
	New Zealand	-0.40	(0.11)	-0.42	(0.08)	-0.02	(0.07)	-11	(4.8)	1.0	(0.9)	0	(3.7)	20.0	(2.0)
	Norway	-0.11	(0.06)	С	С	С	С	-10	(2.6)	0.7	(0.4)	-7	(2.6)	9.1	(1.0)
	Poland	-1.08	(0.07)	С	С	С	С	-2	(3.4)	0.1	(0.2)	-1	(2.7)	15.2	(1.6)
	Portugal	1.08	(0.06)	0.85	(0.06)	-0.23	(0.06)	-12	(3.5)	1.1	(0.6)	-3	(2.8)	19.8	(2.0)
	Slovak Republic	-0.47	(0.07)	-1.12	(0.08)	-0.65	(0.09)	-12	(4.2)	1.3	(0.9)	-6	(2.7)	30.4	(2.3)
	Slovenia Spain	-0.15 0.27	(0.15)	-0.54 c	(0.00) C	-0.39	(0.15) c	-9 -8	(1.6)	0.8	(0.3)	-1 2	(1.5)	35.5 14.4	(1.3)
	Sweden	0.27	(0.08)	-0.07	(0.25)	-0.42	(0.26)	-7	(3.0)	0.5	(0.4)	1	(1.9)	16.4	(1.7)
	Switzerland	-0.42	(0.07)	-0.47	(0.14)	-0.05	(0.16)	-9	(5.9)	0.6	(0.8)	-2	(4.0)	24.3	(2.0)
	Turkey	1.34	(0.15)	0.50	(0.08)	-0.84	(0.17)	-18	(3.8)	6.3	(2.7)	-6	(3.3)	26.9	(4.0)
	United Kingdom	-0.23	(0.34)	-0.11	(0.08)	0.12	(0.34)	-9	(4.4)	0.6	(0.6)	-1	(2.5)	19.6	(1.7)
	United States	-0.05	(0.11)	-0.31	(0.08)	-0.26	(0.10)	-14	(3.3)	2.1	(1.0)	-7	(2.4)	14.8	(1.7)
(OECD average	0.09	(0.02)	0.00	(0.02)	-0.20	(0.03)	-8	(0.7)	1.0	(0.1)	-2	(0.5)	22.5	(0.3)
so ,	Albania	-0.04	(0.14)	-0.09	(0.11)	-0.05	(0.16)	m	m	m	m	m	m	m	m
	Algeria	0.32	(0.11)	0.70	(0.15)	0.37	(0.19)	7	(2.9)	1.0	(0.9)	7	(2.8)	11.4	(3.1)
ara	Brazil	-0.17	(0.07)	-0.05	(0.07)	0.11	(0.08)	-13	(2.5)	3.0	(1.1)	-3	(2.1)	22.0	(2.3)
7 _	B-S-J-G (China)	0.99	(0.11)	0.67	(0.10)	-0.32	(0.15)	-24	(4.2)	7.4	(2.5)	-6	(3.8)	35.1	(2.9)
	Bulgaria	-0.92	(0.22)	-1.15	(0.06)	-0.24	(0.22)	-13	(7.3)	0.9	(1.0)	-4	(4.8)	38.4	(3.0)
	CABA (Argentina)	-0.11	(0.14)	-0.82	(0.29)	-0.72	(0.30)	-20	(6.7)	5.2	(3.5)	2	(4.6)	32.5	(3.5)
	Colombia Costa Rica	0.58	(0.07)	0.39	(0.07) (0.12)	-0.19 0.10	(0.06)	-13 2	(2.4) (1.9)	3.8 0.2	(1.4) (0.4)	-3 1	(1.5)	20.3	(2.5)
	Croatia	0.86 C	(U.13)	-0.02	(0.12)	0.10 C	(0.13) C	0	(4.8)	0.2	(0.4)	2	(2.9)	26.1	(2.2)
	Cyprus*	0.55	(0.03)	0.03	(0.00)	-0.52	(0.03)	-11	(1.2)	1.7	(0.2)	-1	(1.1)	17.2	(0.9)
	Dominican Republic	-0.16	(0.15)	-0.23	(0.10)	-0.07	(0.17)	-10	(3.5)	2.2	(1.5)	0	(2.3)	26.0	(3.2)
	FYROM .	С	C	-0.90	(0.00)	С	С	-5	(1.3)	0.3	(0.2)	-9	(1.3)	14.9	(1.2)
	Georgia	-0.32	(0.08)	-0.34	(0.07)	-0.03	(0.06)	0	(3.5)	0.0	(0.1)	1	(3.0)	15.4	(1.6)
	Hong Kong (China)	-0.22	(0.09)	-0.20	(0.08)	0.02	(0.05)	5	(3.7)	0.3	(0.5)	3	(2.7)	12.9	(1.9)
	Indonesia Jordan	-0.16 0.88	(0.08)	-0.08	(0.11)	0.08	(0.14)	-9 -5	(2.7)	2.2 0.6	(1.2) (0.6)	-4 -1	(1.9) (2.4)	23.7 12.4	(3.2)
	Jordan Kosovo	-0.04	(0.10)	-0.19	(0.01)	-0.15	(0.12)	-5 -4	(1.6)	0.6	(0.6)	-1 -1	(1.3)	14.2	(1.5)
	Lebanon	0.03	(0.12)	-0.13	(0.01)	-0.13	(0.12)	-12	(3.7)	1.9	(1.2)	-3	(3.2)	18.9	(3.1)
	Lithuania	-0.48	(0.05)	С	C	С	C	5	(3.2)	0.3	(0.4)	2	(2.4)	21.4	(2.3)
	Macao (China)	0.38	(0.00)	0.11	(0.00)	-0.27	(0.01)	-5	(0.8)	0.6	(0.2)	-2	(0.9)	2.3	(0.5)
	Malta	С	C	-0.20	(0.00)	С	C	-7	(1.4)	0.5	(0.2)	-3	(1.5)	24.5	(1.1)
	Moldova	-0.34	(0.07)	-0.46	(0.12)	-0.12	(0.10)	-1	(3.6)	0.0	(0.2)	1	(2.5)	14.1	(1.7)
	Montenegro Peru	-0.72 0.52	(0.38) (0.07)	-1.02 0.28	(0.00) (0.07)	-0.30 - 0.24	(0.38) (0.07)	0 -14	(1.8) (2.5)	0.0 4.5	(0.0)	-1 1	(1.7) (1.7)	17.1 29.6	(0.9)
	Qatar	-0.86	(0.07)	-0.68	(0.07)	0.19	(0.07)	-14	(0.8)	0.2	(0.1)	-1	(0.8)	14.0	(0.6)
	Qatar Romania	-0.42	(0.07)	-0.66 m	(0.00) m	m	(0.01) m	2	(3.9)	0.2	(0.1)	2	(2.8)	23.3	(2.9)
	Russia	0.04	(0.11)	0.31	(0.13)	0.27	(0.13)	-4	(2.4)	0.3	(0.3)	-1	(1.9)	9.9	(1.8)
	Singapore	-0.55	(0.20)	-0.47	(0.02)	0.08	(0.19)	0	(1.4)	0.0	(0.0)	3	(2.2)	26.2	(1.6)
	Chinese Taipei	0.17	(0.07)	0.23	(0.06)	0.07	(0.09)	-13	(6.2)	0.9	(0.9)	-1	(3.4)	28.4	(2.6)
	Thailand	0.45	(0.11)	0.22	(0.10)	-0.23	(0.10)	-2	(3.1)	0.1	(0.2)	2	(2.6)	18.6	(3.2)
	Trinidad and Tobago	0.56	(0.01)	0.69	(0.01)	0.13	(0.01)	-1	(1.5)	0.0	(0.0)	1	(1.5)	35.8	(1.1)
	Tunisia United Arab Emirates	1.44	(0.14)	1.32	(0.13)	-0.12	(0.19)	-24	(3.8)	0.0	(0.3)	-16	(3.3)	18.3	(3.7)
	United Arab Emirates Uruguay	0.42	(0.13)	0.12	(0.06)	-0.31 -0.32	(0.13)	-24	(2.0)	10.7 3.5	(1.8)	-16 -1	(1.8)	19.6 26.3	(2.0)
	Viet Nam	0.54	(0.11)	0.22	(0.08)	-0.32	(0.12)	-14	(3.6)	0.0	(0.3)	0	(2.7)	19.6	(4.3)
	Argentina**														
	Argentina** Kazakhstan**	0.20	(0.09)	-0.06	(0.09) (0.15)	-0.09 0.13	(0.09)	-6	(3.0)	0.7 0.0	(0.7)	-3 1	(2.3)	19.4 8.7	(2.2)
	nazaniistaii	1 -0.19	(0.09)	-0.06	(0.15)	-0.16	(0.11)	-9	(3.4)	1.0	(0.8)	-6	(2.8)	18.6	(2.4)

^{1.} Higher values in the index indicate a greater shortage of educational staff.
2. The socio-economic profile is measured by the PISA index of economic, social and cultural status.

Note: Values that are statistically significant are indicated in bold (see Annex A3).

*See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink *** Indicated in the profile of the pro



Table II.6.17 Participation in professional development activities

	Percentage of tea	chers who attended a programme of	professional development in the pre	vious three months
	All t	eachers	Science	teachers
	%	S.E.	%	S.E.
Australia	84.4	(1.0)	83.4	(1.2)
Austria	47.6	(1.8)	46.2	(2.6)
Belgium	51.9	(2.0)	52.1	(2.4)
Canada	71.2	(1.8)	73.7	(1.9)
Chile	43.5	(3.1)	46.5	(3.5)
Czech Republic	42.6	(1.9)	37.8	(2.0)
Denmark	41.2	(2.5)	39.9	(3.1)
Estonia	56.6	(1.9)	59.2	(2.2)
Finland	51.6	(2.5)	58.6	(3.1)
France	31.9	(1.5)	31.6	(2.0)
Germany	40.1	(2.0)	41.3	(2.4)
,				
Greece	36.7	(2.6)	48.4	(3.0)
Hungary Iceland	26.5	(2.0)	28.7 70.0	(2.4)
Ireland	66.8	(0.2)	51.0	(0.2)
	44.6	(2.7)		(3.5)
Israel	65.4	(2.4)	64.0	(2.8)
Italy	33.4	(2.1)	31.4	(2.3)
Japan	34.8	(2.4)	34.6	(2.6)
Korea	69.1	(2.1)	66.2	(2.7)
Latvia	49.7	(1.9)	51.0	(2.3)
Luxembourg	51.2	(0.1)	52.6	(0.1)
Mexico	38.9	(2.5)	30.9	(2.5)
Netherlands	55.5	(3.5)	59.1	(3.9)
New Zealand	78.2	(2.4)	79.4	(2.5)
Norway	22.9	(2.4)	24.2	(3.2)
Poland	55.9	(3.0)	61.5	(3.2)
Portugal	36.5	(2.3)	37.1	(2.7)
Slovak Republic	38.9	(1.8)	35.7	(2.4)
Slovenia	46.8	(0.3)	47.7	(0.5)
Spain	49.9	(2.3)	47.2	(2.8)
Sweden	71.8	(2.9)	73.2	(3.2)
Switzerland	51.5	(2.5)	48.4	(3.5)
Turkey	24.0	(2.8)	20.1	(2.9)
United Kingdom	80.6	(2.4)	79.6	(2.5)
United States	87.6	(1.7)	88.6	(2.0)
OECD average	50.9	(0.4)	51.5	(0.4)
OLCD average	30.5	(0.4)	31.5	(0.4)
Albania	57.9	(2.3)	54.8	(2.8)
Algeria	30.9	(3.2)	25.0	(3.5)
Brazil	55.1	(1.6)	53.2	(2.0)
B-S-J-G (China)	72.1	(2.4)	69.0	(2.6)
Bulgaria	47.9	(3.0)	48.7	(2.9)
CABA (Argentina)	35.6	(3.7)	29.4	(4.4)
Colombia	42.3	(2.5)	36.9	(3.0)
Costa Rica	34.8	(2.7)	40.3	(3.4)
Croatia	54.9	(2.1)	56.0	(2.5)
Cyprus*	57.9	(0.1)	60.6	(0.1)
Dominican Republic	50.3	(2.7)	47.0	(3.4)
FYROM	16.3	(0.1)	11.9	(0.1)
Georgia	19.5	(1.4)	14.4	(1.8)
Hong Kong (China)	56.7	(3.5)	53.2	(3.8)
	50.7			(2.6)
	20.8		20.9	
Indonesia	29.8	(2.6)	20.9	(3.3)
Indonesia Jordan	25.0	(2.6) (2.2)	21.8	(2.3)
Indonesia Jordan Kosovo	25.0 29.0	(2.6) (2.2) (0.7)	21.8 16.2	(0.8)
Indonesia Jordan Kosovo Lebanon	25.0 29.0 46.6	(2.6) (2.2) (0.7) (2.5)	21.8 16.2 45.6	(0.8) (2.5)
Indonesia Jordan Kosovo Lebanon Lithuania	25.0 29.0 46.6 66.4	(2.6) (2.2) (0.7) (2.5) (1.8)	21.8 16.2 45.6 63.4	(0.8) (2.5) (2.2)
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China)	25.0 29.0 46.6 66.4 74.6	(2.6) (2.2) (0.7) (2.5) (1.8) (0.0)	21.8 16.2 45.6 63.4 74.1	(0.8) (2.5) (2.2) (0.1)
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta	25.0 29.0 46.6 66.4 74.6 48.3	(2.6) (2.2) (0.7) (2.5) (1.8) (0.0) (0.1)	21.8 16.2 45.6 63.4 74.1 33.5	(0.8) (2.5) (2.2) (0.1) (0.1)
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova	25.0 29.0 46.6 66.4 74.6 48.3 32.6	(2.6) (2.2) (0.7) (2.5) (1.8) (0.0) (0.1) (2.1)	21.8 16.2 45.6 63.4 74.1 33.5 25.1	(0.8) (2.5) (2.2) (0.1) (0.1) (2.4)
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro	25.0 29.0 46.6 66.4 74.6 48.3 32.6 41.4	(2.6) (2.2) (0.7) (2.5) (1.8) (0.0) (0.1) (2.1) (0.3)	21.8 16.2 45.6 63.4 74.1 33.5 25.1 45.7	(0.8) (2.5) (2.2) (0.1) (0.1) (2.4) (0.3)
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru	25.0 29.0 46.6 66.4 74.6 48.3 32.6 41.4	(2.6) (2.2) (0.7) (2.5) (1.8) (0.0) (0.1) (2.1) (0.3) (1.8)	21.8 116.2 45.6 63.4 74.1 33.5 25.1 45.7	(0.8) (2.5) (2.2) (0.1) (0.1) (2.4) (0.3) (2.0)
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar	25.0 29.0 46.6 66.4 74.6 48.3 32.6 41.4 47.0 74.3	(2.6) (2.2) (0.7) (2.5) (1.8) (0.0) (0.1) (2.1) (0.3) (1.8) (0.1)	21.8 116.2 45.6 63.4 74.1 33.5 25.1 45.7 44.1 74.8	(0.8) (2.5) (2.2) (0.1) (0.1) (2.4) (0.3) (2.0) (0.1)
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania	25.0 29.0 46.6 66.4 74.6 48.3 32.6 41.4 47.0 74.3 63.2	(2.6) (2.2) (0.7) (2.5) (1.8) (0.0) (0.1) (2.1) (0.3) (1.8) (0.1) (2.8)	21.8 16.2 45.6 63.4 74.1 33.5 25.1 45.7 44.1 74.8 55.1	(0.8) (2.5) (2.2) (0.1) (0.1) (2.4) (0.3) (2.0) (0.1) (3.5)
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia	25.0 29.0 46.6 66.4 74.6 48.3 32.6 41.4 47.0 74.3 63.2 28.7	(2.6) (2.2) (0.7) (2.5) (1.8) (0.0) (0.1) (2.1) (0.3) (1.8) (0.1) (2.8) (2.1)	21.8 16.2 45.6 63.4 74.1 33.5 25.1 45.7 44.1 74.8 55.1 30.5	(0.8) (2.5) (2.2) (0.1) (0.1) (2.4) (0.3) (2.0) (0.1) (3.5) (3.1)
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore	25.0 29.0 46.6 66.4 74.6 48.3 32.6 41.4 47.0 74.3 63.2 28.7 82.6	(2.6) (2.2) (0.7) (2.5) (1.8) (0.0) (0.1) (2.1) (0.3) (1.8) (0.1) (2.8) (2.1) (0.7)	21.8 116.2 45.6 63.4 74.1 33.5 25.1 45.7 44.1 74.8 55.1 30.5 81.5	(0.8) (2.5) (2.2) (0.1) (0.1) (2.4) (0.3) (2.0) (0.1) (3.5) (3.1) (0.6)
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei	25.0 29.0 46.6 66.4 74.6 48.3 32.6 41.4 47.0 74.3 63.2 28.7 82.6 69.2	(2.6) (2.2) (0.7) (2.5) (1.8) (0.0) (0.1) (2.1) (0.3) (1.8) (0.1) (2.8) (2.1) (0.7) (2.0)	21.8 116.2 45.6 63.4 74.1 33.5 25.1 45.7 44.1 74.8 55.1 30.5 81.5 65.3	(0.8) (2.5) (2.2) (0.1) (0.1) (2.4) (0.3) (2.0) (0.1) (3.5) (3.1) (0.6) (2.7)
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand	25.0 29.0 46.6 66.4 74.6 48.3 32.6 41.4 47.0 74.3 63.2 28.7 82.6 69.2 73.0	(2.6) (2.2) (0.7) (2.5) (1.8) (0.0) (0.1) (2.1) (0.3) (1.8) (0.1) (2.8) (2.1) (0.7) (2.0) (2.3)	21.8 16.2 45.6 63.4 74.1 33.5 25.1 45.7 44.1 74.8 55.1 30.5 81.5 65.3 71.6	(0.8) (2.5) (2.2) (0.1) (0.1) (2.4) (0.3) (2.0) (0.1) (3.5) (3.1) (0.6) (2.7) (2.6)
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	25.0 29.0 46.6 66.4 74.6 48.3 32.6 41.4 47.0 74.3 63.2 28.7 82.6 69.2	(2.6) (2.2) (0.7) (2.5) (1.8) (0.0) (0.1) (2.1) (0.3) (1.8) (0.1) (2.8) (2.1) (0.7) (2.0)	21.8 116.2 45.6 63.4 74.1 33.5 25.1 45.7 44.1 74.8 55.1 30.5 81.5 65.3	(0.8) (2.5) (2.2) (0.1) (0.1) (2.4) (0.3) (2.0) (0.1) (3.5) (3.1) (0.6) (2.7)
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	25.0 29.0 46.6 66.4 74.6 48.3 32.6 41.4 47.0 74.3 63.2 28.7 82.6 69.2 73.0 39.0 51.3	(2.6) (2.2) (0.7) (2.5) (1.8) (0.0) (0.1) (2.1) (0.3) (1.8) (0.1) (2.8) (2.1) (0.7) (2.0) (2.3)	21.8 116.2 45.6 63.4 74.1 33.5 25.1 45.7 44.1 74.8 55.1 30.5 81.5 65.3 71.6 32.7 50.5	(0.8) (2.5) (2.2) (0.1) (0.1) (2.4) (0.3) (2.0) (0.1) (3.5) (3.1) (0.6) (2.7) (2.6)
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	25.0 29.0 46.6 66.4 74.6 48.3 32.6 41.4 47.0 74.3 63.2 28.7 82.6 69.2 73.0 39.0	(2.6) (2.2) (0.7) (2.5) (1.8) (0.0) (0.1) (2.1) (0.3) (1.8) (0.1) (2.8) (2.1) (0.7) (2.0) (2.3) (0.2)	21.8 116.2 45.6 63.4 74.1 33.5 25.1 45.7 44.1 74.8 55.1 30.5 81.5 65.3 71.6 32.7	(0.8) (2.5) (2.2) (0.1) (0.1) (2.4) (0.3) (2.0) (0.1) (3.5) (3.1) (0.6) (2.7) (2.6) (0.2)
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	25.0 29.0 46.6 66.4 74.6 48.3 32.6 41.4 47.0 74.3 63.2 28.7 82.6 69.2 73.0 39.0 51.3	(2.6) (2.2) (0.7) (2.5) (1.8) (0.0) (0.1) (2.1) (0.3) (1.8) (0.1) (2.8) (2.1) (0.7) (2.0) (2.3) (0.2) (3.1)	21.8 116.2 45.6 63.4 74.1 33.5 25.1 45.7 44.1 74.8 55.1 30.5 81.5 65.3 71.6 32.7 50.5	(0.8) (2.5) (2.2) (0.1) (0.1) (2.4) (0.3) (2.0) (0.1) (3.5) (3.1) (0.6) (2.7) (2.6) (0.2) (3.6)
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	25.0 29.0 46.6 66.4 74.6 48.3 32.6 41.4 47.0 74.3 63.2 28.7 82.6 69.2 73.0 39.0 51.3 84.7	(2.6) (2.2) (0.7) (2.5) (1.8) (0.0) (0.1) (2.1) (0.3) (1.8) (0.1) (2.8) (2.1) (0.7) (2.0) (2.3) (0.2) (3.1) (1.5)	21.8 116.2 45.6 63.4 74.1 33.5 25.1 45.7 44.1 74.8 55.1 30.5 81.5 65.3 71.6 32.7 50.5 79.0	(0.8) (2.5) (2.2) (0.1) (0.1) (2.4) (0.3) (2.0) (0.1) (3.5) (3.1) (0.6) (2.7) (2.6) (0.2) (3.6) (2.2)
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	25.0 29.0 46.6 66.4 74.6 48.3 32.6 41.4 47.0 74.3 63.2 28.7 82.6 69.2 73.0 39.0 51.3 84.7 26.0 60.4	(2.6) (2.2) (0.7) (2.5) (1.8) (0.0) (0.1) (2.1) (0.3) (1.8) (0.1) (2.8) (2.1) (0.7) (2.0) (2.3) (0.2) (3.1) (1.5) (1.5) (3.3)	21.8 116.2 45.6 63.4 74.1 33.5 25.1 45.7 44.1 74.8 55.1 30.5 81.5 65.3 71.6 32.7 50.5 79.0 21.5 62.3	(0.8) (2.5) (2.2) (0.1) (0.1) (2.4) (0.3) (2.0) (0.1) (3.5) (3.1) (0.6) (2.7) (2.6) (0.2) (3.6) (2.2) (1.6) (3.4)
Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	25.0 29.0 46.6 66.4 74.6 48.3 32.6 41.4 47.0 74.3 63.2 28.7 82.6 69.2 73.0 39.0 51.3 84.7 26.0	(2.6) (2.2) (0.7) (2.5) (1.8) (0.0) (0.1) (2.1) (0.3) (1.8) (0.1) (2.8) (2.1) (0.7) (2.0) (2.3) (0.2) (3.1) (1.5)	21.8 116.2 45.6 63.4 74.1 33.5 25.1 45.7 44.1 74.8 55.1 30.5 81.5 65.3 71.6 32.7 50.5 79.0 21.5	(0.8) (2.5) (2.2) (0.1) (0.1) (2.4) (0.3) (2.0) (0.1) (3.5) (3.1) (0.6) (2.7) (2.6) (0.2) (3.6) (2.2) (1.6)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** Interpretation of the seed o



[Part 1/1]

Table II.6.20 In-house professional development

	rereemage	of students in sch	ools whose princip		ne following types he school	of in-house profe	ssional developmer	nt activities
	co-operate b ideas or materia	in our school y exchanging al when teaching series of lessons	Our school inv to conduct training fo	ites specialists in-service	Our schoo in-service that deal with that our sc	workshops specific issues	Our schoo in-service for specific gro	workshops
	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Australia	99.4	(0.3)	91.6	(1.2)	98.1	(0.5)	96.7	(0.7)
Austria	99.4	(0.4)	93.2	(1.5)	83.5	(2.8)	74.6	(3.2)
Belgium	96.5	(1.0)	76.3	(2.8)	74.7	(2.6)	72.4	(2.7)
Canada	99.8	(0.1)	88.9	(1.9)	94.7	(1.2)	88.2	(1.8)
Chile	89.4	(2.4)	73.0	(3.5)	79.2	(3.3)	57.2	(4.1)
Czech Republic	97.9	(0.9)	81.5	(2.7)	57.0	(2.6)	37.7	(3.3)
Denmark	98.9	(0.8)	77.3	(3.0)	60.8	(4.0)	56.2	(3.6)
Estonia Finland	97.2 100.0	(1.1) c	97.0 72.0	(1.0)	91.9 62.5	(1.5) (4.1)	70.4 50.6	(2.7)
France	92.9	(1.8)	58.3	(3.5)	64.3	(3.1)	59.1	(3.2)
Germany	98.2	(1.0)	91.5	(1.8)	95.5	(1.8)	78.4	(3.2)
Greece	97.0	(1.3)	58.6	(3.6)	89.9	(2.4)	36.7	(3.9)
Hungary	99.2	(0.5)	59.3	(3.2)	39.9	(4.0)	47.1	(4.0)
Iceland	97.9	(0.1)	89.1	(0.1)	95.1	(0.1)	86.6	(0.2)
Ireland	100.0	С	93.2	(2.1)	93.8	(2.0)	76.9	(3.5)
Israel	96.4	(1.7)	87.6	(2.9)	93.3	(1.8)	79.5	(3.5)
Italy	92.8	(2.0)	70.6	(3.7)	68.2	(3.4)	51.9	(4.4)
Japan	70.8	(3.4)	79.5	(2.8)	83.7	(2.7)	84.7	(2.6)
Korea	94.6	(1.8)	89.8	(2.4)	95.6	(1.7)	88.5	(2.6)
Latvia	97.4	(0.9)	87.5	(1.8)	74.3	(2.5)	65.0	(2.6)
Luxembourg	96.3	(0.0)	83.8	(0.1)	75.5	(0.1)	71.8	(0.1)
Mexico	93.9	(1.6)	55.8	(3.3)	68.3	(3.3)	49.5	(3.1)
Netherlands	94.5	(2.2)	93.7	(2.3)	92.9	(2.5)	94.8	(2.1)
New Zealand	100.0	С	93.0	(2.2)	98.6	(0.9)	98.5	(0.9)
Norway	98.1	(1.0)	51.2	(4.0)	70.7	(3.7)	62.0	(3.4)
Poland	100.0	С	95.0	(1.7)	96.9	(1.4)	61.8	(3.8)
Portugal	98.0	(1.0)	89.7	(2.2)	90.4	(2.0)	71.0	(3.0)
Slovak Republic	97.7	(1.2)	73.8	(2.8)	51.4	(3.3)	45.3	(3.1)
Slovenia	98.7	(0.5)	78.5	(0.5)	83.0	(0.6)	52.4	(0.5)
Spain	92.4	(1.9)	69.5	(3.1)	71.9	(3.3)	58.3	(3.5)
Sweden	98.7	(0.8)	65.5	(3.5)	79.4	(3.2)	55.0	(3.3)
Switzerland	97.6	(1.3)	81.8	(3.5)	85.5	(3.6)	83.3	(2.6)
Turkey	94.3	(2.0)	52.9	(4.1)	29.6	(3.4)	44.8	(4.5)
United Kingdom	100.0	C	93.5	(2.1)	99.7	(0.2)	97.8	(0.6)
United States	99.3	(0.7)	91.5	(1.9)	98.2	(1.0)	97.3	(1.1)
OECD average	96.4	(0.2)	79.6	(0.5)	79.7	(0.4)	68.6	(0.5)
Albania	100.0	С	69.3	(3.0)	87.6	(2.3)	90.4	(2.2)
Algeria	93.1	(2.1)	14.3	(2.8)	33.6	(4.2)	53.5	(4.4)
Brazil	97.3	(0.9)	60.3	(2.5)	49.0	(2.6)	32.3	(2.3)
B-S-J-G (China)	99.5	(0.5)	89.7	(2.4)	98.4	(1.0)	93.6	(2.0)
Bulgaria	98.5	(0.9)	79.2	(2.8)	79.4	(3.1)	59.5	(3.9)
CABA (Argentina)	96.4	(3.4)	79.4	(4.9)	92.5	(3.2)	71.2	(7.3)
Colombia	89.1	(2.3)	57.5	(3.5)	73.1	(3.8)	53.7	(3.5)
Costa Rica	93.7	(1.7)	78.9	(3.0)	81.8	(2.9)	48.3	(3.6)
Croatia	96.8	(1.5)	72.6	(3.4)	77.3	(2.9)	61.8	(3.6)
Cyprus*	100.0	C (1.2)	90.6	(0.1)	90.5	(0.1)	62.7	(0.1)
Dominican Republic	94.6	(1.3)	82.7	(3.3)	90.5	(2.2)	67.8	(3.9)
FYROM	95.4	(0.1)	52.7	(0.2)	77.7	(0.2)	75.3	(0.1)
Georgia	100.0	C (O.0)	48.9	(3.1)	72.5	(3.0)	62.5	(3.6)
Hong Kong (China)	99.2	(0.8)	87.3	(3.1)	89.3	(2.7)	78.0	(3.9)
Indonesia Iordan	95.8 93.9	(1.4)	74.1 75.1	(3.2)	55.3 83.4	(3.4)	37.9 80.0	(3.3)
	93.9	(1.7) (0.4)	/5.1 43.8	(3.0)	83.4 51.9	(2.6)	80.0 41.8	(2.6)
Kosovo Lebanon	94.7	(1.5)	67.9	(3.5)	62.2	(3.8)	63.0	(3.3)
Lithuania	96.3	(1.1)	94.2	(1.2)	83.1	(2.1)	44.8	(2.8)
Macao (China)	100.0	(1.1) C	94.2	(0.1)	84.4	(0.0)	92.9	(0.0)
	100.0	С	93.4	(0.1)	89.7	(0.0)	51.1	(0.0)
			42.6	(3.7)	98.6	(0.6)	89.7	(2.0)
Malta					80.2	(0.2)	83.1	(0.3)
Malta Moldova	98.6	(0.7)		(0.3)				
Malta Moldova Montenegro	98.6 98.8	(0.7) (0.0)	76.9	(0.3)				(3.0)
Malta Moldova Montenegro Peru	98.6 98.8 90.5	(0.7) (0.0) (1.9)	76.9 70.3	(2.7)	78.3	(2.2)	44.1	(3.0)
Malta Moldova Montenegro Peru Qatar	98.6 98.8 90.5 100.0	(0.7) (0.0) (1.9)	76.9 70.3 87.9	(2.7) (0.1)	78.3 96.9	(2.2) (0.0)	44.1 97.5	(0.0)
Malta Moldova Montenegro Peru Qatar Romania	98.6 98.8 90.5 100.0 99.2	(0.7) (0.0) (1.9) c (0.7)	76.9 70.3 87.9 72.2	(2.7) (0.1) (3.8)	78.3 96.9 83.3	(2.2) (0.0) (3.0)	44.1 97.5 78.0	(0.0) (3.6)
Malta Moldova Montenegro Peru Qatar Romania Russia	98.6 98.8 90.5 100.0 99.2 98.6	(0.7) (0.0) (1.9) c (0.7) (0.5)	76.9 70.3 87.9 72.2 67.7	(2.7) (0.1) (3.8) (3.7)	78.3 96.9 83.3 97.9	(2.2) (0.0) (3.0) (0.9)	44.1 97.5 78.0 89.5	(0.0) (3.6) (2.4)
Malta Moldova Montenegro Peru Qatar Romania Russia Singapore	98.6 98.8 90.5 100.0 99.2 98.6 100.0	(0.7) (0.0) (1.9) c (0.7) (0.5)	76.9 70.3 87.9 72.2 67.7 90.4	(2.7) (0.1) (3.8) (3.7) (0.1)	78.3 96.9 83.3 97.9 98.2	(2.2) (0.0) (3.0) (0.9) (0.0)	44.1 97.5 78.0 89.5 96.3	(0.0) (3.6) (2.4) (0.1)
Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei	98.6 98.8 90.5 100.0 99.2 98.6 100.0 94.3	(0.7) (0.0) (1.9) c (0.7) (0.5) c (1.5)	76.9 70.3 87.9 72.2 67.7 90.4 92.3	(2.7) (0.1) (3.8) (3.7) (0.1) (2.1)	78.3 96.9 83.3 97.9 98.2 90.6	(2.2) (0.0) (3.0) (0.9) (0.0) (2.1)	44.1 97.5 78.0 89.5 96.3 90.8	(0.0) (3.6) (2.4) (0.1) (2.2)
Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand	98.6 98.8 90.5 100.0 99.2 98.6 100.0 94.3	(0.7) (0.0) (1.9) c (0.7) (0.5) c (1.5) (2.2)	76.9 70.3 87.9 72.2 67.7 90.4 92.3 87.9	(2.7) (0.1) (3.8) (3.7) (0.1) (2.1) (2.4)	78.3 96.9 83.3 97.9 98.2 90.6 88.3	(2.2) (0.0) (3.0) (0.9) (0.0) (2.1) (2.3)	44.1 97.5 78.0 89.5 96.3 90.8 64.4	(0.0) (3.6) (2.4) (0.1) (2.2) (3.1)
Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Irinidad and Tobago	98.6 98.8 90.5 100.0 99.2 98.6 100.0 94.3 90.3	(0.7) (0.0) (1.9) c (0.7) (0.5) c (1.5) (2.2) (0.2)	76.9 70.3 87.9 72.2 67.7 90.4 92.3 87.9 87.1	(2.7) (0.1) (3.8) (3.7) (0.1) (2.1) (2.4) (0.2)	78.3 96.9 83.3 97.9 98.2 90.6 88.3 91.5	(2.2) (0.0) (3.0) (0.9) (0.0) (2.1) (2.3) (0.1)	44.1 97.5 78.0 89.5 96.3 90.8 64.4 65.9	(0.0) (3.6) (2.4) (0.1) (2.2) (3.1) (0.3)
Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	98.6 98.8 90.5 100.0 99.2 98.6 100.0 94.3 90.3 94.2 72.3	(0.7) (0.0) (1.9) c (0.7) (0.5) c (1.5) (2.2) (0.2) (4.3)	76.9 70.3 87.9 72.2 67.7 90.4 92.3 87.9 87.1 21.2	(2.7) (0.1) (3.8) (3.7) (0.1) (2.1) (2.4) (0.2) (4.1)	78.3 96.9 83.3 97.9 98.2 90.6 88.3 91.5 25.4	(2.2) (0.0) (3.0) (0.9) (0.0) (2.1) (2.3) (0.1) (3.8)	44.1 97.5 78.0 89.5 96.3 90.8 64.4 65.9 38.3	(0.0) (3.6) (2.4) (0.1) (2.2) (3.1) (0.3) (4.1)
Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	98.6 98.8 90.5 100.0 99.2 98.6 100.0 94.3 90.3 94.2 72.3	(0.7) (0.0) (1.9) c (0.7) (0.5) c (1.5) (2.2) (0.2) (4.3) (0.0)	76.9 70.3 87.9 72.2 67.7 90.4 92.3 87.9 87.1 21.2 90.8	(2.7) (0.1) (3.8) (3.7) (0.1) (2.1) (2.4) (0.2) (4.1) (1.5)	78.3 96.9 83.3 97.9 98.2 90.6 88.3 91.5 25.4 97.9	(2.2) (0.0) (3.0) (0.9) (0.0) (2.1) (2.3) (0.1) (3.8) (0.7)	44.1 97.5 78.0 89.5 96.3 90.8 64.4 65.9 38.3 96.5	(0.0) (3.6) (2.4) (0.1) (2.2) (3.1) (0.3) (4.1) (0.6)
Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	98.6 98.8 90.5 100.0 99.2 98.6 100.0 94.3 90.3 94.2 72.3	(0.7) (0.0) (1.9) c (0.7) (0.5) c (1.5) (2.2) (0.2) (4.3) (0.0) (1.9)	76.9 70.3 87.9 72.2 67.7 90.4 92.3 87.9 87.1 21.2	(2.7) (0.1) (3.8) (3.7) (0.1) (2.1) (2.4) (0.2) (4.1) (1.5) (2.4)	78.3 96.9 83.3 97.9 98.2 90.6 88.3 91.5 25.4	(2.2) (0.0) (3.0) (0.9) (0.0) (2.1) (2.3) (0.1) (3.8) (0.7) (2.4)	44.1 97.5 78.0 89.5 96.3 90.8 64.4 65.9 38.3	(0.0) (3.6) (2.4) (0.1) (2.2) (3.1) (0.3) (4.1) (0.6) (2.8)
Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	98.6 98.8 90.5 100.0 99.2 98.6 100.0 94.3 90.3 94.2 72.3 100.0 93.9	(0.7) (0.0) (1.9) c (0.7) (0.5) c (1.5) (2.2) (0.2) (4.3) (0.0) (1.9) (0.1)	76.9 70.3 87.9 72.2 67.7 90.4 92.3 87.9 87.1 21.2 90.8 77.9 27.2	(2.7) (0.1) (3.8) (3.7) (0.1) (2.1) (2.4) (0.2) (4.1) (1.5) (2.4) (3.7)	78.3 96.9 83.3 97.9 98.2 90.6 88.3 91.5 25.4 97.9 80.3 92.1	(2.2) (0.0) (3.0) (0.9) (0.0) (2.1) (2.3) (0.1) (3.8) (0.7) (2.4) (2.4)	44.1 97.5 78.0 89.5 96.3 90.8 64.4 65.9 38.3 96.5 42.8 88.9	(0.0) (3.6) (2.4) (0.1) (2.2) (3.1) (0.3) (4.1) (0.6) (2.8) (2.1)
Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunista United Arab Emirates Uruguay Viet Nam Argentina** Kazakhstan**	98.6 98.8 90.5 100.0 99.2 98.6 100.0 94.3 90.3 94.2 72.3 100.0 93.9	(0.7) (0.0) (1.9) c (0.7) (0.5) c (1.5) (2.2) (0.2) (4.3) (0.0) (1.9)	76.9 70.3 87.9 72.2 67.7 90.4 92.3 87.9 87.1 21.2 90.8 77.9	(2.7) (0.1) (3.8) (3.7) (0.1) (2.1) (2.4) (0.2) (4.1) (1.5) (2.4)	78.3 96.9 83.3 97.9 98.2 90.6 88.3 91.5 25.4 97.9 80.3	(2.2) (0.0) (3.0) (0.9) (0.0) (2.1) (2.3) (0.1) (3.8) (0.7) (2.4)	44.1 97.5 78.0 89.5 96.3 90.8 64.4 65.9 38.3 96.5 42.8	(0.0) (3.6) (2.4) (0.1) (2.2) (3.1) (0.3) (4.1) (0.6) (2.8)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/1]

Table II.6.26 Student-teacher ratio and class size in language-of-instruction class

	Class size in languag	e-of-instruction class	Student-teacher r	atio in the school
	Mean	S.E.	Mean ratio	S.E.
Australia	25.1	(0.13)	13.1	(0.13)
Austria	24.2	(0.48)	11.7	(0.24)
Belgium	19.7	(0.26)	9.1	(0.16)
Canada	26.4	(0.21)	15.9	(0.20)
hile	33.8	(0.43)	20.7	(0.56)
zech Republic	24.0	(0.22)	13.3	(0.17)
Denmark	21.6	(0.26)	12.7	(0.18)
stonia	25.1	(0.43)	11.9	(0.17)
inland	19.1	(0.18)	10.3	(0.15)
rance	29.3	(0.28)	12.3	(0.33)
Germany	25.0	(0.31)	14.7	(0.25)
Greece	23.5	(0.46)	9.6	(0.20)
lungary	28.2	(0.57)	9.9	(0.29)
celand	20.3	(0.03)	9.9	(0.02)
reland	24.6	(0.26)	14.4	(0.67)
rael	29.6	(0.41)	11.6	(0.35)
taly	23.3	(0.45)	10.5	(0.19)
npan	36.1	(0.32)	11.5	(0.20)
orea	31.0	(0.29)	15.1	(0.18)
atvia	21.3	(0.32)	10.1	(0.13)
uxembourg	21.4	(0.01)	9.7	(0.00)
lexico	39.1	(0.60)	28.5	(0.77)
etherlands	25.7	(0.34)	20.4	(1.62)
ew Zealand	25.3	(0.22)	14.6	(0.19)
lorway	23.9	(0.32)	10.2	(0.15)
oland	24.4	(0.53)	8.7	(0.17)
ortugal	25.7	(0.27)	11.0	(0.24)
lovak Republic	22.1	(0.27)	12.6	(0.20)
lovenia	25.9	(0.04)	10.8	(0.02)
pain	26.9	(0.48)	12.5	(0.22)
weden	23.3	(0.32)	11.5	(0.23)
witzerland	20.1	(0.52)	12.2	(0.28)
urkey	47.2	(0.96)	15.2	(0.34)
nited Kingdom	24.4	(0.30)	14.7	(0.25)
Inited States	25.8	(0.38)	16.0	(0.23)
DECD average	26.1	(0.06)	13.1	(0.07)
JLCD average	20.1	(0.00)	15.1	(0.07)
Albania	27.4	(0.47)	8.3	(0.83)
Algeria	29.4	(0.72)	17.3	(0.30)
Brazil	36.4	(0.40)	29.1	(0.78)
B-S-J-G (China)	45.6	(0.51)	13.8	(0.44)
ulgaria	25.0	(0.39)	12.1	(0.21)
ABA (Argentina)	40.5	(2.04)	10.3	(1.03)
olombia	36.0	(0.63)	28.5	(0.90)
osta Rica	27.7	(0.44)	16.9	(0.81)
roatia	24.8	(0.24)	11.5	(0.20)
yprus*	23.5	(0.03)	7.5	(0.00)
ominican Republic	36.0	(0.98)	29.7	(0.95)
YROM	26.4	(0.02)	13.8	(0.04)
ieorgia	39.1	(0.86)	14.0	(0.34)
long Kong (China)	30.7	(0.37)	13.5	(0.17)
ndonesia	30.9	(0.69)	15.7	(0.92)
ordan	32.7	(0.55)	17.0	(0.57)
osovo	28.1	(0.12)	19.1	(0.28)
ebanon	28.5	(0.61)	11.6	(0.38)
			10.4	(0.17)
thuania	24.1	(0.21)		
	24.1 35.3	(0.21) (0.01)	14.7	(0.01)
lacao (China)				
lacao (China) lalta	35.3	(0.01)	14.7	(0.01)
lacao (China) lalta loldova	35.3 20.1	(0.01) (0.01) (0.56)	14.7 7.2	(0.01) (0.01) (0.32)
acao (China) lalta loldova lontenegro	35.3 20.1 24.6 28.2	(0.01) (0.01) (0.56) (0.04)	14.7 7.2 12.9 13.8	(0.01) (0.01) (0.32) (0.03)
lacao (China) lalta loldova lontenegro	35.3 20.1 24.6 28.2 27.7	(0.01) (0.01) (0.56) (0.04) (0.44)	14.7 7.2 12.9 13.8 18.6	(0.01) (0.01) (0.32) (0.03) (0.62)
acao (China) lalta loldova lontenegro eru latar	35.3 20.1 24.6 28.2 27.7 29.3	(0.01) (0.01) (0.56) (0.04) (0.44) (0.02)	14.7 7.2 12.9 13.8 18.6 11.5	(0.01) (0.01) (0.32) (0.03) (0.62) (0.01)
lacao (China) lalta loldova lontenegro eru atar omania	35.3 20.1 24.6 28.2 27.7 29.3 27.0	(0.01) (0.01) (0.56) (0.04) (0.44) (0.02) (0.48)	14.7 7.2 12.9 13.8 18.6 11.5	(0.01) (0.01) (0.32) (0.03) (0.62) (0.01) (0.42)
lacao (China) lalta loldova lontenegro eru latar omania ussia	35.3 20.1 24.6 28.2 27.7 29.3 27.0 22.8	(0.01) (0.01) (0.56) (0.04) (0.44) (0.02) (0.48) (0.36)	14.7 7.2 12.9 13.8 18.6 11.5 15.4	(0.01) (0.01) (0.32) (0.03) (0.62) (0.01) (0.42) (0.51)
lacao (China) lalta loldova lontenegro eru latar omania ussia ngapore	35.3 20.1 24.6 28.2 27.7 29.3 27.0 22.8 34.4	(0.01) (0.01) (0.56) (0.04) (0.44) (0.02) (0.48) (0.36) (0.25)	14.7 7.2 12.9 13.8 18.6 11.5 15.4 14.9	(0.01) (0.01) (0.32) (0.03) (0.62) (0.01) (0.42) (0.51) (0.08)
lacao (China) lalta loldova lontenegro eru latar omania ussia ngapore hinese Taipei	35.3 20.1 24.6 28.2 27.7 29.3 27.0 22.8 34.4 36.8	(0.01) (0.01) (0.56) (0.04) (0.44) (0.02) (0.48) (0.36) (0.25) (0.30)	14.7 7.2 12.9 13.8 18.6 11.5 15.4 14.9 12.1 16.4	(0.01) (0.01) (0.32) (0.03) (0.62) (0.01) (0.42) (0.51) (0.08) (0.27)
lacao (China) lalta loldova loldova leru latar omania ussia ngapore hinese Taipei hailand	35.3 20.1 24.6 28.2 27.7 29.3 27.0 22.8 34.4 36.8 37.1	(0.01) (0.01) (0.56) (0.04) (0.44) (0.02) (0.48) (0.36) (0.25) (0.30) (0.49)	14.7 7.2 12.9 13.8 18.6 11.5 15.4 14.9 12.1 16.4 19.8	(0.01) (0.01) (0.32) (0.03) (0.62) (0.01) (0.42) (0.51) (0.08) (0.27) (0.62)
lacao (China) lalta loldova lontenegro letar letar lomania lussia lingapore linese Taipei lailand letinidad and Tobago	35.3 20.1 24.6 28.2 27.7 29.3 27.0 22.8 34.4 36.8 37.1 29.3	(0.01) (0.01) (0.01) (0.56) (0.04) (0.44) (0.02) (0.48) (0.36) (0.25) (0.30) (0.49) (0.03)	14.7 7.2 12.9 13.8 18.6 11.5 15.4 14.9 12.1 16.4 19.8 13.2	(0.01) (0.01) (0.03) (0.03) (0.62) (0.01) (0.42) (0.51) (0.08) (0.27) (0.62) (0.02)
lacao (China) lalta loldova lontenegro eru latar omania sussia ingapore hinese Taipei haland iriidad and Tobago	35.3 20.1 24.6 28.2 27.7 29.3 27.0 22.8 34.4 36.8 37.1 29.3 27.8	(0.01) (0.01) (0.056) (0.04) (0.44) (0.02) (0.48) (0.36) (0.25) (0.30) (0.49) (0.03) (0.58)	14.7 7.2 12.9 13.8 18.6 11.5 15.4 14.9 12.1 16.4 19.8 13.2	(0.01) (0.01) (0.32) (0.03) (0.62) (0.01) (0.42) (0.51) (0.08) (0.27) (0.62) (0.02) (0.72)
lacao (China) lalta loldova lontenegro eru batar omania ussia ingapore hinese Taipei hailand rinidad and Tobago unisia inited Arab Emirates	35.3 20.1 24.6 28.2 27.7 29.3 27.0 22.8 34.4 36.8 37.1 29.3 27.8	(0.01) (0.01) (0.056) (0.04) (0.44) (0.02) (0.48) (0.36) (0.25) (0.30) (0.49) (0.03) (0.58) (0.61)	14.7 7.2 12.9 13.8 18.6 11.5 15.4 14.9 12.1 16.4 19.8 13.2 11.4 14.0	(0.01) (0.01) (0.32) (0.03) (0.62) (0.01) (0.42) (0.51) (0.08) (0.27) (0.62) (0.02) (0.72) (0.26)
Acaco (China) Italta Itoldova Acontenegro eru Qatar omania ussia ingapore hinese Taipei hailand rinidad and Tobago unisia Inited Arab Emirates	35.3 20.1 24.6 28.2 27.7 29.3 27.0 22.8 34.4 36.8 37.1 29.3 27.8 30.1	(0.01) (0.01) (0.56) (0.04) (0.44) (0.02) (0.48) (0.36) (0.25) (0.30) (0.49) (0.03) (0.58) (0.61) (0.34)	14.7 7.2 12.9 13.8 18.6 11.5 15.4 14.9 12.1 16.4 19.8 13.2 11.4 14.0 13.7	(0.01) (0.01) (0.32) (0.03) (0.62) (0.01) (0.42) (0.51) (0.08) (0.27) (0.62) (0.02) (0.72) (0.26) (0.69)
Acaco (China) Italta Itoldova	35.3 20.1 24.6 28.2 27.7 29.3 27.0 22.8 34.4 36.8 37.1 29.3 27.8 30.1 27.2	(0.01) (0.01) (0.056) (0.04) (0.44) (0.02) (0.48) (0.25) (0.30) (0.49) (0.03) (0.58) (0.61) (0.34) (0.67)	14.7 7.2 12.9 13.8 18.6 11.5 15.4 14.9 12.1 16.4 19.8 13.2 11.4 14.0 13.7 16.2	(0.01) (0.01) (0.32) (0.03) (0.62) (0.01) (0.42) (0.51) (0.08) (0.27) (0.62) (0.02) (0.02) (0.26) (0.69) (0.38)
lacao (China) lalta loldova lontenegro eru latar omania ussia ngapore hinese Taipei hailand inidad and Tobago unisia nited Arab Emirates ruguay iet Nam	35.3 20.1 24.6 28.2 27.7 29.3 27.0 22.8 34.4 36.8 37.1 29.3 27.8 30.1 27.2 40.1	(0.01) (0.01) (0.01) (0.56) (0.04) (0.44) (0.02) (0.48) (0.36) (0.25) (0.30) (0.49) (0.03) (0.58) (0.61) (0.34) (0.67)	14.7 7.2 12.9 13.8 18.6 11.5 15.4 14.9 12.1 16.4 19.8 13.2 11.4 14.0 13.7 16.2	(0.01) (0.01) (0.03) (0.03) (0.62) (0.01) (0.42) (0.51) (0.08) (0.27) (0.62) (0.02) (0.72) (0.26) (0.69) (0.38)
ithuania Alacao (China) Alata Alottova Alo	35.3 20.1 24.6 28.2 27.7 29.3 27.0 22.8 34.4 36.8 37.1 29.3 27.8 30.1 27.2	(0.01) (0.01) (0.056) (0.04) (0.44) (0.02) (0.48) (0.25) (0.30) (0.49) (0.03) (0.58) (0.61) (0.34) (0.67)	14.7 7.2 12.9 13.8 18.6 11.5 15.4 14.9 12.1 16.4 19.8 13.2 11.4 14.0 13.7 16.2	(0.01) (0.01) (0.32) (0.03) (0.62) (0.01) (0.42) (0.51) (0.08) (0.27) (0.62) (0.02) (0.02) (0.26) (0.69) (0.38)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** http://dx.doi.org/10.1787/888933436513



[Part 1/1]

Table II.6.28 Change between 2006 and 2015 in student-teacher ratio and class size in language-of-instruction class

Results based on school principals' reports

<u> </u>		Change between 2006 and		
	Class size in langua	ge-of-instruction class		ratio in the school
	Dif.	S.E.	Dif.	S.E.
Australia	0.1	(0.21)	-0.3	(0.19)
Austria	0.8	(0.60)	0.4	(0.46)
Belgium	-0.3	(0.35)	0.0	(0.20)
Canada	-0.8	(0.25)	-0.8	(0.24)
Chile	-4.8	(0.63)	-4.2	(0.88)
Czech Republic	-0.9	(0.34)	-0.3	(0.33)
Denmark	1.5	(0.36)	1.0	(0.24)
Estonia	-3.9	(0.71)	-3.4	(0.23)
Finland	-1.9	(0.53)	-1.0	(0.21)
France	m	m	m	m
Germany	-0.7	(0.38)	-2.6	(0.36)
Greece	-11.2	(1.22)	0.7	(0.28)
Hungary Iceland	-1.1 -2.4	(0.79)	-2.3 -1.0	(0.45)
Ireland	1.1	(0.04) (0.35)	1.1	(0.02) (0.68)
Israel	-2.9	(0.65)	-1,1	(0.55)
Italy	-1.7	(0.63)	1.3	(0.22)
Japan	-0.2	(0.55)	-1.3	(0.36)
Korea	-2.3	(0.40)	-1.3	(0.24)
Latvia	-9.8	(1.12)	-1.6	(0.38)
Luxembourg	-1.2	(0.01)	0.2	(0.00)
Mexico	1.2	(0.95)	1.4	(1.00)
Netherlands	1.5	(0.46)	4.4	(1.65)
New Zealand	-0.2	(0.30)	-1.2	(0.28)
Norway	-0.2 -2.1	(0.30)	-0.5	(0.20)
Poland	-1.2	(0.71)	-2.6	(0.20)
Portugal	1.7	(0.52)	2.1	(0.22)
Slovak Republic	-4,1	(0.50)	-2.4	(0.35)
Slovenia	-2.3	(0.06)	-3.5	(0.03)
Spain	-0.8	(0.72)	0.2	(0.27)
Sweden	0.1	(0.42)	-0.9	(0.30)
Switzerland	0.7	(0.54)	0.3	(0.32)
Turkey	13.3	(1.21)	-3.3	(0.72)
United Kingdom	-0.4	(0.36)	-0.6	(0.29)
United States	0.3	(0.59)	0.7	(0.53)
OECD average	-1.0	(0.10)	-0.7	(0.08)
Albania	m	m	m	m
Algeria	m	m	m	m
Brazil	-1.1	(0.59)	-2.4	(1.23)
			m	m
B-S-J-G (China)	m	m		
B-S-J-G (China) Bulgaria	m 0.6	(0.54)	0.4	(0.31)
Bulgaria CABA (Argentina)	0.6 m	(0.54) m	m	m
Bulgaria CABA (Argentina) Colombia	0.6	(0.54)		
Bulgaria CABA (Argentina) Colombia Costa Rica	0.6 m -4.4 m	(0.54) m (0.98) m	m 4.6 m	m (1.58) m
Bulgaria CABA (Argentina) Colombia Costa Rica Croatia	0.6 m -4.4 m -2.8	(0.54) m (0.98)	m 4.6 m -2.3	m (1.58)
B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus*	0.6 m -4.4 m -2.8 m	(0.54) m (0.98) m (0.39) m	m 4.6 m -2.3 m	m (1.58) m (0.30) m
B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic	0.6 m -4.4 m -2.8 m m	(0.54) m (0.98) m (0.39) m m	m 4.6 m -2.3 m m	m (1.58) m (0.30) m m
B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM	0.6 m -4.4 m -2.8 m m	(0.54) m (0.98) m (0.39) m m	m 4.6 m -2.3 m m	m (1.58) m (0.30) m m
B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia	0.6 m -4.4 m -2.8 m m m	(0.54) m (0.98) m (0.39) m m m	m 4.6 m -2.3 m m m m	m (1.58) m (0.30) m m m
B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China)	0.6 m -4.4 m -2.8 m m m	(0.54) m (0.98) m (0.39) m m m m m (0.55)	m 4.6 m -2.3 m m m m	m (1.58) m (0.30) m m m m m (0.22)
Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia	0.6 m -4.4 m -2.8 m m m m -7.5	(0.54) m (0.98) m (0.39) m m m m m (0.55) (0.81)	m 4.6 m -2.3 m m m -4.5	m (1.58) m (0.30) m m m m m (0.22) (1.05)
B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan	0.6 m -4.4 m -2.8 m m m -7.5 -6.7	(0.54) m (0.98) m (0.39) m m m m (0.55) (0.81) (0.76)	m 4.6 m -2.3 m m m -4.5 -2.8 -1.3	m (1.58) m (0.30) m m m m (0.22) (1.05) (0.67)
B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo	0.6 m -4.4 m -2.8 m m m -7.5 -6.7 -0.5 m	(0.54) m (0.98) m (0.39) m m m m (0.55) (0.81) (0.76) m	m 4.6 m -2.3 m m m m -4.5 -2.8 -1.3 m	m (1.58) m (0.30) m m m m m (0.22) (1.05) (0.67) m
B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon	0.6 m -4.4 m -2.8 m m m -7.5 -6.7 -0.5 m	(0.54) m (0.98) m (0.39) m m m m (0.55) (0.81) (0.76) m m	m 4.6 m -2.3 m m m m -4.5 -2.8 -1.3 m m	m (1.58) m (0.30) m m m (0.22) (1.05) (0.67) m m m
Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania	0.6 m -4.4 m -2.8 m m m -7.5 -6.7 -0.5 m m	(0.54) m (0.98) m (0.39) m m m m (0.55) (0.81) (0.76) m m (0.33)	m 4.6 m -2.3 m m m -4.5 -2.8 -1.3 m m	m (1.58) m (0.30) m m m (0.30) m m m (0.22) (1.05) (0.67) m m (0.24)
Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China)	0.6 m -4.4 m -2.8 m m m m -7.5 -6.7 -0.5 m m	(0.54) m (0.98) m (0.39) m m m m (0.55) (0.81) (0.76) m m (0.33) (0.02)	m 4.6 m -2.3 m m m m -4.5 -2.8 -1.3 m m m -1.7	m (1.58) m (0.30) m m m m m (0.22) (1.05) (0.67) m m (0.224) (0.01)
B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta	0.6 m -4.4 m -2.8 m m m m -7.5 -6.7 -0.5 m m -0.1	(0.54) m (0.98) m (0.39) m m m m (0.55) (0.81) (0.76) m m (0.33) (0.02) m	m 4.6 m -2.3 m m m m -4.5 -2.8 -1.3 m m m -1.7 -6.7 m	m (1.58) m (0.30) m (0.30) m m m (0.22) (1.05) (0.67) m m (0.24) (0.01) m
Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova	0.6 m -4.4 m -2.8 m m m m -7.5 -6.7 -0.5 m m m m m -0.1 -10.8 m m	(0.54) m (0.98) m (0.39) m m m m m (0.55) (0.81) (0.76) m m (0.33) (0.02) m m	m 4.6 m -2.3 m m m m -4.5 -2.8 -1.3 m m m m	m (1.58) m (0.30) m (0.30) m m m (0.22) (1.05) (0.67) m m (0.24) (0.01) m m m
Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro	0.6 m -4.4 m -2.8 m m m m -7.5 -6.7 -0.5 m m m -0.1 -10.8 m m -4.1	(0.54) m (0.98) m (0.39) m m m m (0.55) (0.55) (0.81) (0.76) m m (0.33) (0.02) m m (0.06)	m 4.6 m -2.3 m m m -4.5 -2.8 -1.3 m m -1.7 -6.7 m m -2.8	m (1.58) m (0.30) m m m m m (0.22) (1.05) (0.67) m m (0.224) (0.01) m m (0.23)
Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru	0.6 m -4.4 m -2.8 m m m m m -7.5 -6.7 -0.5 m m -0.1 -10.8 m m m -4.1	(0.54) m (0.98) m (0.39) m (0.39) m m m (0.55) (0.81) (0.76) m m (0.33) (0.02) m m (0.06) m	m 4.6 m -2.3 m m m m m -4.5 -2.8 -1.3 m m m -1.7 -6.7 m m m -2.8	m (1.58) m (0.30) m (0.30) m m m m (0.22) (1.05) (0.67) m m (0.24) (0.01) m m (0.03) m
Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar	0.6 m -4.4 m -2.8 m m m m m -7.5 -6.7 -0.5 m m -0.1 -10.8 m m -4.1 m	(0.54) m (0.98) m (0.39) m (0.39) m m m (0.55) (0.81) (0.76) m m (0.33) (0.02) m m (0.06) m (0.06)	m 4.6 m -2.3 m m m m 4.5 -2.8 -1.3 m m -4.7 -6.7 m m m -2.8	m (1.58) m (0.30) m (0.30) m m (0.22) (1.05) (0.67) m m (0.24) (0.01) m m (0.03) m (0.03) m (0.02)
Bulgaria CABA (Argentina) COsta Rica Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania	0.6 m -4.4 m -2.8 m m m m -7.5 -6.7 -0.5 m m -0.1 -10.8 m m -4.1 m -1.9 0.7	(0.54) m (0.98) m (0.39) m (0.39) m m m (0.55) (0.81) (0.76) m m (0.33) (0.02) m m (0.06) m (0.03) (0.03) (0.57)	m 4.6 m -2.3 m m m m -4.5 -2.8 -1.3 m m m -1.7 -6.7 m m m -2.8 m 0.9 -1.2	m (1.58) m (0.30) m (0.30) m m m (0.22) (1.05) (0.67) m m (0.24) (0.01) m m (0.03) m (0.03) m (0.02) (0.55)
B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia	0.6 m -4.4 m -2.8 m m m m -7.5 -6.7 -0.5 m m -0.1 -10.8 m m -4.1 m -1.9 0.7 0.4	(0.54) m (0.98) m (0.39) m (0.39) m m m (0.55) (0.81) (0.76) m m (0.33) (0.02) m m (0.06) m (0.03) (0.057) (0.48)	m 4.6 m -2.3 m m m m -4.5 -2.8 -1.3 m m -1.7 -6.7 m m m -1.2 2.0	m (1.58) m (0.30) m (0.30) m m m (0.22) (1.05) (0.67) m m (0.24) (0.01) m m (0.03) m (0.02) (0.55) (0.63)
B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore	0.6 m -4.4 m -2.8 m m m m m -7.5 -6.7 -0.5 m m -0.1 -10.8 m m -4.1 m -1.9 0.7 0.4 m	(0.54) m (0.98) m (0.39) m (0.39) m m m (0.55) (0.81) (0.76) m m (0.33) (0.02) m m (0.06) m (0.03) (0.03) (0.57) (0.48) m	m 4.6 m -2.3 m m m m m -4.5 -2.8 -1.3 m m -1.7 -6.7 m m m -1.2 2.0 m	m (1.58) m (0.30) m (0.30) m m (0.22) (1.05) (0.67) m m (0.24) (0.01) m m (0.03) m (0.02) (0.55) (0.63) m m
B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei	0.6 m -4.4 m -2.8 m m m m m m -7.5 -6.7 -0.5 m m -0.1 -10.8 m m -4.1 m m -1.9 0.7 0.4 m m -3.9	(0.54) m (0.98) m (0.39) m (0.39) m m m m m (0.55) (0.81) (0.76) m m (0.33) (0.02) m m (0.06) m (0.03) (0.057) (0.48) m (0.45)	m 4.6 m -2.3 m m m m m 4.5 -2.8 -1.3 m m -1.7 -6.7 m m m -2.8 m 0.9 -1.2 2.0 m -1.3	m (1.58) m (0.30) m (0.30) m m (0.22) (1.05) (0.67) m m (0.24) (0.01) m m (0.03) m (0.02) (0.55) (0.63) m (0.46)
Bulgaria CABA (Argentina) COlombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand	0.6 m -4.4 m -2.8 m m m m m -7.5 -6.7 -0.5 m m -0.1 -10.8 m m -4.1 m -1.9 0.7 0.4 m -3.9 -2.3	(0.54) m (0.98) m (0.39) m (0.39) m m m m (0.55) (0.81) (0.76) m m (0.33) (0.02) m m (0.06) m (0.06) m (0.03) (0.57) (0.48) m (0.45) (0.61)	m 4.6 m -2.3 m m m m -4.5 -2.8 -1.3 m m m -1.7 -6.7 m m m -1.2 -2.0 m -1.3 -3.2	m (1.58) m (0.30) m (0.30) m m m (0.22) (1.05) (0.67) m m (0.24) (0.01) m m (0.03) m (0.03) m (0.02) (0.55) (0.63) m (0.46) (0.77)
B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	0.6 m -4.4 m -2.8 m m m m m -7.5 -6.7 -0.5 m m -0.1 -10.8 m m -4.1 m -1.9 0.7 0.4 m -3.9 -2.3 m	(0.54) m (0.98) m (0.39) m (0.39) m m m (0.55) (0.81) (0.76) m m (0.33) (0.02) m m (0.06) m (0.03) (0.57) (0.48) m (0.45) (0.61) m	m 4.6 m 2-2.3 m m m m m 4.5 -2.8 -1.3 m m -1.7 -6.7 m m m -1.2 2.0 m -1.3 -3.2 m	m (1.58) m (0.30) m (0.30) m m m (0.22) (1.05) (0.67) m m (0.24) (0.01) m m (0.03) m (0.02) (0.55) (0.63) m (0.46) (0.77) m m
B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	0.6 m -4.4 m -2.8 m m m m m m -7.5 -6.7 -0.5 m m -0.1 -10.8 m m -4.1 m -1.9 0.7 0.4 m -3.9 -2.3 m m -3.8	(0.54) m (0.98) m (0.39) m (0.39) m m m (0.55) (0.81) (0.76) m m (0.33) (0.02) m m (0.03) (0.02) m (0.048) m (0.45) (0.61) m (0.69)	m 4.6 m 2-2.3 m m m m m 4.5 -2.8 -1.3 m m -1.7 -6.7 m m -1.2 -2.8 m 0.9 -1.2 -2.0 m -1.3 -3.2 m -4.2	m (1.58) m (0.30) m (0.30) m m (0.22) (1.05) (0.67) m m (0.24) (0.01) m m (0.03) m (0.02) (0.55) (0.63) m (0.46) (0.77) m (0.74)
B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	0.6 m -4.4 m -2.8 m m m m m -7.5 -6.7 -0.5 m m -0.1 -10.8 m m -4.1 m -1.9 0.7 0.4 m m -3.9 -2.3 m m -3.8 m	(0.54) m (0.98) m (0.39) m (0.39) m m m m (0.55) (0.61) (0.76) m m (0.33) (0.02) m m (0.06) m (0.03) (0.57) (0.48) m (0.45) (0.61) m (0.69) m	m 4.6 m -2.3 m m m m m 4.5 -2.8 -1.3 m m m -4.5 -2.8 -1.3 m m m -1.7 -6.7 m m m -1.2 -2.0 m -1.3 -3.2 m -4.2 m	m (1.58) m (0.30) m (0.30) m m m (0.22) (1.05) (0.67) m m (0.24) (0.01) m m (0.03) m (0.02) (0.55) (0.63) m (0.46) (0.77) m (0.74) m (0.74) m
B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	0.6 m -4.4 m -2.8 m m m m m -7.5 -6.7 -0.5 m m -0.1 -10.8 m m -4.1 m -1.9 0.7 0.4 m -3.9 -2.3 m m -3.8 m m -3.8 m m -6.0	(0.54) m (0.98) m (0.39) m (0.39) m m m m (0.55) (0.81) (0.76) m m (0.33) (0.02) m m (0.06) m (0.03) (0.57) (0.48) m (0.45) (0.61) m (0.69) m (0.69) m (0.69) m (0.68)	m 4.6 m 2.3 m m m m m 4.5 -2.8 -1.3 m m m -1.7 -6.7 m m m -1.2 -2.0 m -1.3 -3.2 m -4.2 m -2.2	m (1.58) m (0.30) m m (0.30) m m m (0.22) (1.05) (0.67) m m (0.24) (0.01) m m (0.03) m (0.02) (0.55) (0.63) m (0.46) (0.77) m m (0.74) m (0.74) m (0.76)
B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	0.6 m -4.4 m -2.8 m m m m m -7.5 -6.7 -0.5 m m -0.1 -10.8 m m -4.1 m -1.9 0.7 0.4 m -3.9 -2.3 m -3.8 m m -6.0 m	(0.54) m (0.98) m (0.39) m (0.39) m m m m (0.55) (0.81) (0.76) m m (0.33) (0.02) m m (0.06) m (0.03) (0.57) (0.48) m (0.45) (0.61) m (0.69) m (0.69) m (0.68) m (0.68)	m 4.6 m 2.3 m m m m m 4.5 -2.8 -1.3 m m m -1.7 -6.7 m m -1.2 -2.0 m -1.3 -3.2 m -4.2 m -2.2 m	m (1.58) m (0.30) m (0.30) m m m m (0.22) (1.05) (0.67) m m (0.24) (0.01) m m (0.03) m (0.02) (0.55) (0.63) m (0.46) (0.77) m (0.74) m (0.74) m (0.76) m (0.76) m
B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam Argentina**	0.6 m -4.4 m -2.8 m m m m m -7.5 -6.7 -0.5 m m -0.1 -10.8 m m -4.1 m -1.9 0.7 0.4 m -3.9 -2.3 m -3.8 m m -6.0 m	(0.54) m (0.98) m (0.39) m (0.39) m m m (0.55) (0.81) (0.76) m m (0.33) (0.02) m m (0.03) (0.02) m m (0.048) m (0.048) m (0.45) (0.61) m (0.69) m (0.69) m (0.68) m (1.32)	m 4.6 m -2.3 m m m m -4.5 -2.8 -1.3 m m m -1.7 -6.7 m m m -2.8 m 0.9 -1.2 2.0 m -1.3 -3.2 m -4.2 m m -2.2 m m -1.3	m (1.58) m (0.30) m (0.30) m m (0.30) m m m (0.22) (1.05) (0.67) m m (0.24) (0.01) m m (0.03) m (0.02) (0.55) (0.63) m (0.46) (0.77) m (0.74) m (0.74) m (0.76) m (1.09)
Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	0.6 m -4.4 m -2.8 m m m m m -7.5 -6.7 -0.5 m m -0.1 -10.8 m m -4.1 m -1.9 0.7 0.4 m -3.9 -2.3 m -3.8 m m -6.0 m	(0.54) m (0.98) m (0.39) m (0.39) m m m m (0.55) (0.81) (0.76) m m (0.33) (0.02) m m (0.06) m (0.03) (0.57) (0.48) m (0.45) (0.61) m (0.69) m (0.69) m (0.68) m (0.68)	m 4.6 m 2.3 m m m m m 4.5 -2.8 -1.3 m m m -1.7 -6.7 m m -1.2 -2.0 m -1.3 -3.2 m -4.2 m -2.2 m	m (1.58) m (0.30) m (0.30) m m m m (0.22) (1.05) (0.67) m m (0.24) (0.01) m m (0.03) m (0.02) (0.55) (0.63) m (0.46) (0.77) m (0.74) m (0.74) m (0.76) m (0.76) m

Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** Intp://dx.doi.org/10.1787/888933436513



[Part 1/3]

Table II.6.29 Student-teacher ratio, science performance and school characteristics

		All st	udents					By sch	ool socio-	economic	profile ¹			
	Ave	rage	Varia	ability	Bottom	quarter	Second	quarter	Third	guarter	Top o	uarter		bottom arter
	Mean ratio	S.E.	S.D.	S.E.	Mean ratio	S.E.	Mean ratio	S.E.	Mean ratio	S.E.	Mean ratio	S.E.	Dif.	S.E
Australia	13.1	(0.1)	3.7	(0.3)	13.1	(0.3)	13.2	(0.3)	13.8	(0.3)	12.4	(0.2)	-0.7	(0.4
Austria	11.7	(0.2)	6.4	(0.3)	13.8	(1.0)	13.5	(1.3)	9.5	(0.4)	10.3	(0.2)	-3.5	(1.0
Belgium	9.1	(0.2)	2.8	(0.2)	7.2	(0.2)	8.0	(0.3)	9.5	(0.3)	11.4	(0.3)	4.3	(0.4
Canada	15.9	(0.2)	4.8	(1.2)	14.8	(0.6)	15.6	(0.5)	16.5	(0.3)	16.8	(0.3)	1.9	(0.7
Chile	20.7	(0.6)	6.8	(0.4)	19.7	(1.5)	20.5	(1.1)	22.9	(1.1)	20.0	(0.8)	0.3	(1.6
Czech Republic	13.3	(0.2)	3.6	(0.2)	13.1	(0.6)	14.6	(0.6)	12.7	(0.4)	12.9	(0.4)	-0.2	(0.2
Denmark	12.7	(0.2)	3.1	(0.1)	11.8	(0.4)	12.8	(0.5)	13.2	(0.5)	13.1	(0.6)	1.4	(0.3
Estonia Finland	11.9	(0.2)	3.5	(0.1)	8.8 9.6	(0.3)	11.2 10.5	(0.4)	13.6 10.4	(0.4)	13.5	(0.4)	4.7 1.1	(0.
France	12.3	(0.1)	4.6	(0.1)	11.9	(0.4)	12.3	(1.0)	11.7	(0.5)	13.5	(0.3)	1.6	(0.
Germany	14.7	(0.2)	4.5	(0.8)	14.1	(0.7)	15.2	(0.9)	15.3	(0.7)	14.2	(0.7)	0.1	(0.
Greece	9.6	(0.2)	2.8	(0.2)	8.4	(0.4)	9.8	(0.5)	10.7	(0.6)	9.5	(0.5)	1.1	(0.
Hungary	9.9	(0.3)	4.0	(0.3)	8.8	(0.9)	9.9	(0.7)	10.4	(0.5)	10.3	(0.5)	1.5	(1.
Iceland	9.9	(0.0)	3.0	(0.0)	9.8	(0.1)	10.0	(0.0)	10.3	(0.0)	9.6	(0.0)	-0.2	(0.
Ireland	14.4	(0.7)	8.0	(3.6)	12.4	(0.4)	14.0	(0.3)	17.3	(2.7)	14.2	(0.3)	1.8	(0.
Israel	11.6	(0.4)	4.2	(0.5)	12.4	(1.0)	10.3	(0.8)	11.4	(1.0)	12.1	(0.7)	-0.3	(1.
Italy	10.5	(0.2)	3.2	(0.1)	8.3	(0.3)	9.5	(0.3)	10.8	(0.5)	13.1	(0.3)	4.8	(0.
Japan	11.5	(0.2)	4.1	(0.2)	10.0	(0.5)	11.0	(0.6)	12.6	(0.5)	12.5	(0.5)	2.5	(0.
Korea	15.1	(0.2)	2.9	(0.2)	13.2	(0.5)	14.8	(0.4)	16.0	(0.4)	16.4	(0.4)	3.2	(0.
Latvia	10.1	(0.1)	2.8	(0.1)	7.6	(0.2)	10.7	(0.3)	10.5	(0.3)	11.4	(0.3)	3.7	(0.
Luxembourg	9.7	(0.0)	2.2	(0.0)	9.4	(0.0)	9.4	(0.0)	9.4	(0.0)	10.4	(0.0)	1.0	(0.
Mexico	28.5	(0.8)	13.2	(1.0)	26.0	(1.6)	27.8	(1.6)	32.7	(2.0)	27.4	(2.4)	1.4	(2.
Netherlands	20.4	(1.6)	15.7	(4.0)	15.2	(1.8)	24.3	(5.0)	21.6	(4.8)	20.2	(1.1)	5.0	(2.
New Zealand	14.6	(0.2)	2.7	(0.3)	13.1	(0.3)	15.1	(0.5)	15.5 10.0	(0.3)	14.5 11.4	(0.5)	1.4	(0.
Norway Poland	10.2 8.7	(0.1)	2.1	(0.1)	9.7 8.7	(0.2)	9.7 8.0	(0.4)	8.6	(0.5)	9.5	(0.3)	0.8	(0.
Portugal	11.0	(0.2)	3.4	(0.2)	10.6	(0.6)	10.5	(0.4)	11.2	(0.4)	11.8	(0.4)	1.2	(0.
Slovak Republic	12.6	(0.2)	3.1	(0.7)	12.0	(0.4)	13.0	(0.4)	12.8	(0.4)	12.8	(0.3)	0.7	(0.
Slovenia	10.8	(0.0)	4.4	(0.0)	10.3	(0.1)	11.7	(0.1)	9.7	(0.1)	11.4	(0.0)	1.1	(0.
Spain	12.5	(0.2)	4.0	(0.5)	11.2	(0.4)	10.2	(0.6)	13.9	(0.7)	15.2	(0.4)	4.0	(0.
Sweden	11.5	(0.2)	3.2	(0.2)	10.7	(0.5)	10.9	(0.5)	11.5	(0.5)	12.8	(0.6)	2.1	(0.
Switzerland	12.2	(0.3)	4.6	(0.5)	12.0	(0.7)	13.2	(1.0)	12.3	(0.7)	11.3	(0.5)	-0.7	(0.
Turkey	15.2	(0.3)	5.0	(0.4)	15.6	(0.7)	15.3	(0.9)	14.7	(0.6)	15.0	(0.8)	-0.6	(1.
United Kingdom	14.7	(0.3)	2.9	(0.2)	13.6	(0.4)	14.2	(0.6)	15.6	(0.8)	15.0	(0.4)	1.5	(0.
United States	16.0	(0.3)	4.8	(0.2)	16.3	(1.0)	15.6	(0.7)	15.9	(1.0)	16.3	(0.8)	0.0	(1.
OECD average	13.1	(0.1)	4.4	(0.2)	12.1	(0.1)	13.0	(0.2)	13.6	(0.2)	13.5	(0.1)	1.4	(0.
Albania	8.3	(0.8)	8.2	(0.3)	7.7	(1.6)	8.0	(1.6)	9.5	(2.2)	8.9	(1.4)	1.3	(2.
Algeria	17.3	(0.3)	4.0	(0.4)	17.5	(0.8)	17.8	(0.6)	17.3	(0.8)	16.6	(0.5)	-0.9	(0.
Brazil	29.1	(0.8)	16.1	(1.0)	31.7	(1.4)	28.3	(1.7)	29.2	(2.0)	27.1	(1.7)	-4.6	(2.
B-S-J-G (China)	13.8	(0.4)	7.4	(1.8)	15.4	(1.7)	14.0	(1.4)	13.3	(0.7)	12.7	(1.0)	-2.7	(1.
Bulgaria	12.1	(0.2)	3.2	(0.3)	11.6	(0.5)	11.3	(0.5)	12.3	(0.4)	13.5	(0.6)	1.9	(0.
CABA (Argentina)	10.3	(1.0)	6.1	(1.3)	9.2	(1.7)	11.9	(2.3)	12.6	(3.6)	9.5	(1.1)	0.3	(2.
Colombia	28.5	(0.9)	13.9	(1.3)	29.7	(2.7)	29.4	(2.3)	30.9	(1.5)	24.2	(1.9)	-5.5	(3.
Costa Rica	16.9	(0.8)	11.0	(2.5)	18.9	(2.1)	14.8	(1.3)	16.0	(1.1)	18.0	(2.0)	-0.9 2.0	(2.
Croatia Cyprus*	7.5	(0.2)	1.9	(0.2)	10.7	(0.4)	7.2	(0.5)	7.3	(0.3)	12.7 9.3	(0.5)	2.8	(0.
Dominican Republic	29.7	(0.0)	17.4	(1.0)	6.4 35.3	(2.7)	31.0	(2.4)	31.0	(2.5)	21.8	(1.9)	-13.5	(3.
FYROM	13.8	(0.9)	8.8	(0.1)	14.0	(0.1)	11.9	(0.0)	14.1	(0.0)	15.0	(0.1)	1.0	(0.
Georgia	14.0	(0.3)	6.2	(0.1)	11.3	(1.0)	13.8	(0.7)	15.3	(0.7)	15.6	(0.1)	4.3	(1.
Hong Kong (China)	13.5	(0.2)	2.2	(0.3)	12.3	(0.4)	13.1	(0.5)	14.5	(0.4)	14.1	(0.3)	1.9	(0.
Indonesia	15.7	(0.9)	11.6	(2.8)	15.4	(2.6)	15.4	(1.0)	14.8	(1.0)	17.3	(2.2)	1.8	(3.
Jordan	17.0	(0.6)	9.0	(1.7)	16.7	(1.1)	18.8	(2.2)	18.1	(1.7)	14.4	(0.8)	-2.3	(1.
Kosovo	19.1	(0.3)	11.3	(0.8)	21.4	(1.1)	16.6	(0.4)	19.2	(0.5)	19.5	(0.6)	-1.9	(1.
Lebanon	11.6	(0.4)	6.4	(0.6)	10.2	(1.0)	11.6	(0.9)	12.5	(0.6)	12.1	(0.7)	1.9	(1.
Lithuania	10.4	(0.2)	3.9	(1.2)	8.4	(0.2)	10.5	(0.6)	10.8	(0.2)	11.9	(0.2)	3.4	(0.
Macao (China)	14.7	(0.0)	4.9	(0.0)	16.4	(0.0)	14.2	(0.0)	15.0	(0.0)	13.1	(0.0)	-3.3	(0.
Malta	7.2	(0.0)	3.6	(0.0)	4.9	(0.0)	6.6	(0.0)	7.7	(0.0)	9.3	(0.0)	4.5	(0.
Moldova	12.9	(0.3)	4.9	(0.5)	12.3	(0.5)	13.4	(0.9)	12.5	(0.8)	13.3	(0.6)	1.1	(0.
Montenegro	13.8	(0.0)	4.0	(0.0)	12.5	(0.1)	13.6	(0.1)	13.6	(0.0)	15.4	(0.0)	2.8	(0.
Peru	18.6	(0.6)	10.3	(1.3)	17.0	(1.5)	17.3	(0.9)	20.5	(1.4)	19.6	(1.6)	2.5	(2.
Qatar Romania	11.5 15.4	(0.0)	5.0 5.2	(0.0)	10.3 14.7	(0.0)	13.2 13.7	(0.1)	10.9 17.0	(0.1)	11.7	(0.0)	1.3	(0.
Russia	14.9	(0.4)	6.1	(0.4)	11.6	(0.8)	16.0	(1.1) (0.9)	16.1	(0.8)	16.3 15.9	(0.6)	1.6 4.3	(1.
Singapore	12.1	(0.5)	2.4	(0.0)	11.6	(0.9)	12.6	(0.9)	12.6	(0.8)	11.7	(0.3)	0.1	(0.
Chinese Taipei	16.4	(0.1)	6.2	(0.0)	16.5	(0.0)	15.2	(0.1)	16.2	(0.1)	17.8	(0.8)	1.3	(1.
Thailand	19.8	(0.6)	9.5	(2.0)	19.7	(2.2)	19.1	(1.6)	19.9	(1.4)	20.3	(0.8)	0.6	(2.
Trinidad and Tobago	13.2	(0.0)	3.6	(0.0)	10.8	(0.0)	12.4	(0.1)	14.9	(0.1)	14.9	(0.9)	4.1	(0.
Tunisia	11.4	(0.7)	8.1	(3.9)	12.9	(2.7)	11.3	(0.6)	10.9	(0.1)	10.7	(0.5)	-2.2	(2.
United Arab Emirates	14.0	(0.3)	6.8	(0.4)	14.2	(0.6)	13.0	(0.6)	15.1	(0.9)	13.9	(0.7)	-0.2	(0.
Uruguay	13.7	(0.7)	10.4	(2.7)	13.1	(1.4)	13.0	(0.8)	14.3	(0.7)	14.3	(2.4)	1.2	(2.
Viet Nam	16.2	(0.4)	5.0	(0.3)	15.4	(0.7)	16.9	(1.0)	16.1	(1.1)	16.5	(0.8)	1.1	(1.
Argentina**	10.1	(0.9)	10.8	(3.2)	8.8	(0.7)	10.9	(2.9)	10.1	(1.7)	10.5	(1.1)	1.7	(1.
Kazakhstan**	12.8	(1.1)	14.6	(2.9)	14.4	(4.0)	13.3	(2.7)	11.1	(0.6)	12.5	(0.5)	-1.8	(4.
	12.6	(0.2)	3.2	(0.1)	12.1	(0.4)	13.5	(0.6)	11.8	(0.5)	13.1	(0.7)	1.0	(0.

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status. Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 2/3]

Table II.6.29 Student-teacher ratio, science performance and school characteristics

				By schoo	I location						By type	of school		
	(fewe	or village er than		00 to	(or	ity ver								
	3 000 Mean	people)	100 000 Mean	people)	100 000 Mean	people)	City - ru	ıral area	Pul Mean	blic	Priv Mean	/ate	Private	– publi
	ratio	S.E.	ratio	S.E.	ratio	S.E.	Dif.	S.E.	ratio	S.E.	ratio	S.E.	Dif.	S.E
Australia	12.1	(0.6)	13.0	(0.3)	13.2	(0.1)	1.1	(0.6)	13.5	(0.2)	12.5	(0.2)	-1.0	(0.2
Austria Belgium	13.6 9.1	(0.7)	11.0 9.3	(0.3)	12.5 8.6	(0.5)	-1.1 -0.4	(1.7)	12.0 w	(0.3) w	10.0 w	(0.4) W	-2.0 W	(0.5
Canada	13.1	(0.4)	15.6	(0.4)	16.6	(0.2)	3.5	(0.5)	15.8	(0.2)	17.4	(0.7)	1.6	(0.7
Chile	11.7	(1.4)	19.3	(1.0)	21.7	(0.6)	10.0	(1.5)	18.1	(0.7)	22.1	(0.8)	4.0	(1.1
Czech Republic	13.1	(0.4)	13.5	(0.2)	13.1	(0.4)	0.0	(0.6)	13.5	(0.2)	11.4	(0.6)	-2.1	(0.6
Denmark	10.3	(0.6)	13.1	(0.2)	13.6	(0.4)	3.3	(0.7)	13.1	(0.2)	11.5	(0.5)	-1.6	(0.5
Estonia	8.5	(0.3)	12.4	(0.2)	13.9	(0.3)	5.5	(0.5)	11.9	(0.2)	10.3	(0.9)	-1.5	(0.9
Finland France	8.4 14.7	(0.6)	10.6 12.3	(0.2)	10.5 12.2	(0.2)	2.1 -2.6	(0.6)	10.3 11.9	(0.2)	10.5 14.1	(0.5)	0.2 2.2	(0.1
Germany	13.6	(1.1)	14.7	(0.4)	14.9	(0.5)	1.2	(1.2)	14.6	(0.2)	15.3	(1.4)	0.6	(1.
Greece	7.0	(0.6)	9.4	(0.3)	10.7	(0.3)	3.7	(0.7)	9.8	(0.2)	5.9	(0.9)	-3.9	(0.
Hungary	9.7	(0.5)	9.4	(0.4)	10.4	(0.4)	0.7	(0.6)	9.8	(0.3)	10.1	(1.0)	0.3	(1.
Iceland	8.7	(0.0)	10.4	(0.0)	9.9	(0.0)	1.2	(0.1)	9.9	(0.0)	С	С	С	
Ireland	12.8	(0.5)	14.2	(0.2)	15.9	(2.2)	3.1	(2.2)	13.1	(0.3)	15.4	(1.1)	2.2	(1
Israel	11.2	(0.8)	12.6 10.2	(0.6)	10.3	(0.5)	-0.8	(0.9)	m	m	m	m (1.6)	m	/1
Italy Japan	10.2 c	(0.7) C	10.2	(0.3)	11.1 11.9	(0.4)	1.0 c	(0.8) C	10.5 11.4	(0.2)	11.0 11.7	(1.6) (0.4)	0.5 0.3	(0.
Korea	С	С	13.4	(0.5)	15.5	(0.3)	c	С	15.0	(0.2)	15.2	(0.4)	0.3	(0.
Latvia	7.3	(0.3)	10.3	(0.2)	11.9	(0.2)	4.6	(0.3)	10.1	(0.1)	7.5	(0.8)	-2.6	(0.
Luxembourg	m	m	9.3	(0.0)	10.1	(0.0)	m	m	9.5	(0.0)	10.2	(0.0)	0.7	(0.
Mexico	23.1	(1.2)	29.8	(1.6)	29.4	(1.1)	6.3	(1.7)	29.4	(0.8)	21.3	(3.4)	-8.2	(3.
Netherlands	С	С	21.3	(2.3)	18.2	(0.7)	С	С	21.2	(2.8)	19.9	(2.0)	-1.3	(3.
New Zealand	12.2	(1.1)	14.1	(0.3)	15.2	(0.3)	3.0	(1.1)	14.8	(0.2)	11.7	(1.7)	-3.1	(1.
Norway	8.9 8.2	(0.3)	10.3 9.0	(0.2)	11.3	(0.3)	2.4	(0.5)	10.2 8.8	(0.1)	9.6 5.7	(1.2)	-0.6 -3.1	(1.
Poland Portugal	9.1	(0.2)	10.8	(0.3)	8.8 12.2	(0.4)	0.6 3.1	(0.4)	10.9	(0.2)	13.0	(0.7)	2.1	(0.
Slovak Republic	11.9	(0.3)	12.7	(0.3)	12.9	(0.4)	1.0	(0.5)	12.9	(0.2)	10.7	(0.4)	-2.2	(0.
Slovenia	9.9	(0.2)	10.7	(0.0)	11.2	(0.0)	1.3	(0.2)	10.7	(0.0)	12.6	(0.0)	1.8	(0.
Spain	7.4	(1.0)	11.7	(0.3)	14.6	(0.3)	7.2	(1.0)	11.2	(0.2)	15.7	(0.5)	4.5	(0.
Sweden	11.5	(0.5)	10.9	(0.3)	12.6	(0.5)	1.2	(0.7)	11.3	(0.3)	12.3	(0.6)	1.1	(0.
Switzerland	10.4	(0.9)	12.4	(0.4)	12.3	(0.6)	1.9	(1.1)	12.4	(0.3)	9.0	(0.9)	-3.5	(1.
Turkey	15.9	(4.9)	14.9	(0.5)	15.3	(0.5)	-0.6	(5.0)	15.3	(0.3)	12.7	(2.4)	-2.5	(2
United Kingdom United States	14.2 11.8	(1.3)	14.9 15.9	(0.3)	14.2 17.5	(0.4)	0.1 5.7	(1.4)	15.1 16.4	(0.2)	9.6 11.0	(1.0)	-5.5 -5.4	(0.9
Albania Algeria Brazil	11.3	(0.2)	13.0	(0.1)	13.6	(0.1)	2.2	(0.2)	13.0	(0.1)	12.3	(0.2)	-0.8	(0.2
Albania Algeria	9.7 18.0	(2.2)	9.2 17.1	(1.2) (0.4)	6.9 17.1	(1.4) (0.7)	-2.8 -0.8	(2.6)	8.8 17.4	(0.9)	5.6 c	(1.8) C	-3.2 c	(1.
Brazil	24.0	(3.7)	28.5	(1.0)	29.9	(1.1)	5.9	(3.8)	29.1	(0.8)	28.5	(2.4)	-0.5	(2
B-S-J-G (China)	13.1	(1.5)	13.0	(0.5)	15.2	(1.0)	2.1	(1.8)	12.7	(0.3)	23.6	(3.3)	10.9	(3.
Bulgaria	9.7	(0.7)	11.9	(0.3)	12.8	(0.4)	3.1	(0.8)	12.2	(0.2)	С	С	С	
CABA (Argentina)	m	m	С	С	10.1	(1.1)	m	m	9.7	(2.0)	10.4	(0.9)	0.7	(2.
Colombia	24.3	(2.6)	31.0	(2.1)	28.0	(1.0)	3.7	(2.8)	29.7	(1.1)	24.1	(1.5)	-5.7	(1.
Costa Rica	13.1	(0.9)	18.5	(1.1)	15.3	(1.4)	2.2	(1.7)	17.8	(0.9)	11.1	(1.2)	-6.7	(1.
Croatia	С	C (0, 0)	11.1	(0.2)	12.4	(0.3)	C 10	C (0, 0)	11.6	(0.2)	С	(O, O)	C	(0
Cyprus* Dominican Republic	5.9 24.2	(0.0)	7.4 31.2	(0.0)	7.9 28.4	(0.0)	1.9 4.1	(0.0) (4.0)	7.2	(0.0)	9.2	(0.0)	2.0 -7.5	(0.
FYROM	3.7	(0.0)	14.4	(0.1)	13.7	(0.0)	9.9	(0.0)	13.9	(0.0)	6.8	(0.1)	-7.3 -7.1	(0.
Georgia	9.9	(0.6)	15.1	(0.9)	16.2	(0.4)	6.3	(0.7)	14.4	(0.4)	8.2	(0.6)	-6.2	(0.
Hong Kong (China)	m	m	m	m	13.5	(0.2)	m	m	14.9	(0.2)	13.4	(0.2)	-1.5	(0.
Indonesia	15.7	(2.1)	14.9	(0.7)	18.9	(3.8)	3.2	(4.4)	16.9	(1.1)	13.9	(1.5)	-3.0	(1.
Jordan	12.8	(1.0)	17.7	(1.0)	17.8	(0.8)	5.0	(1.3)	16.1	(0.5)	21.0	(2.0)	4.9	(2.
Kosovo Lehanon	23.2 10.2	(1.6) (0.9)	18.3 12.2	(0.2)	18.8 10.6	(0.6)	-4.4 0.4	(1.7)	19.4 9.8	(0.3)	8.6 13.3	(1.1) (0.5)	-10.8 3.5	(1.
Lithuania	8.3	(0.6)	10.6	(0.6)	11.3	(0.2)	3.0	(0.7)	10.4	(0.6)	11.7	(0.8)	1.4	(0.
Macao (China)	C C	(0.0) C	С	(0.2) C	14.7	(0.0)	C C	(0.7)	С С	(0.2) C	14.9	(0.0)	С С	(0.
Malta	7.3	(0.0)	7.3	(0.0)	m	m	m	m	5.1	(0.0)	9.7	(0.0)	4.6	(0.
Moldova	12.2	(0.3)	12.7	(0.5)	15.1	(0.9)	2.9	(0.9)	12.9	(0.3)	С	С	С	
Montenegro	C 15.0	C (1.0)	13.1	(0.0)	15.3	(0.0)	С	C (2.1)	13.8	(0.0)	C	C (1.7)	c	
Peru	15.8	(1.0)	19.7	(1.0)	18.9	(1.8)	3.0	(2.1)	17.8	(0.6)	20.5	(1.7)	2.7	(1.
Qatar Romania	9.0	(0.1)	11.1 15.0	(0.0)	12.1 16.1	(0.0)	3.1 0.5	(0.1)	8.8 15.5	(0.0)	15.5 c	(0.0) C	6.7	(0.
Russia	8.4	(0.5)	15.0	(0.3)	16.1	(0.8)	7.7	(0.8)	14.9	(0.4)	С	C	С	
Singapore	m	(0.5) m	m	m	12.2	(0.1)	m	(0.0) m	12.2	(0.0)	11.8	(1.0)	-0.4	(1.
Chinese Taipei	С	С	15.2	(0.5)	17.3	(0.4)	С	С	13.7	(0.3)	21.7	(0.6)	8.0	(0.
Thailand	15.0	(1.3)	20.9	(0.9)	19.0	(1.4)	4.0	(2.0)	20.3	(0.7)	16.3	(1.6)	-4.0	(1.
Trinidad and Tobago	10.6	(0.1)	13.6	(0.0)	m	m	m	m	12.8	(0.0)	16.9	(0.1)	4.1	(0.
Tunisia	10.1	(1.5)	11.9	(1.1)	10.6	(0.3)	0.5	(1.5)	11.5	(0.7)	9.6	(1.7)	-1.9	(1.
United Arab Emirates	9.1	(0.6)	12.8	(0.6)	15.3	(0.3)	6.2	(0.6)	10.6	(0.2)	16.8	(0.4)	6.2	(0.
Uruguay Viet Nam	9.4	(1.1) (0.6)	13.9 16.4	(1.1)	13.8 15.1	(0.7)	4.4 -1.6	(1.3)	14.2 16.2	(0.8)	10.6 16.5	(0.6)	-3.6 0.4	(1.
											•			
Argentina**	5.1	(0.8)	10.3	(1.4)	10.7	(1.2)	5.6	(1.4)	9.9 12.6	(1.1)	10.6 16.6	(0.7)	0.8 4.0	(1.
Kazakhstan**	10.5	(2.1)	13.4	(2.4)	14.1		3.7							

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status. Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

* Coverage is too small to ensure comparability (see Annex A4).

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[Part 3/3]

Table II.6.29 Student-teacher ratio, science performance and school characteristics

_	uits based on school		1	By educa	tion level			Befor and sch	e accounti	ing for stud	dents' profile ¹		r accountii ools' socio		
		Lower se educ (ISCE	ation '	Upper se educa (ISCE	ation ´	ISCED 3	- ISCED 2	the scien	ge in ice score ncrease in nt-teacher tio	in stu perfor	l variance udent mance ed x 100)	the scien per unit i the stude	nge in nce score ncrease in nt-teacher tio	in sto	l variance udent mance ed x 100)
		Mean ratio	S.E.	Mean ratio	S.E.	Dif.	S.E.	Score dif.	S.E.	%	S.E.	Score dif.	S.E.	%	S.E.
Q	Australia	13.1	(0.1)	13.4	(0.2)	0.3	(0.2)	-0.2	(0.5)	0.0	(0.0)	0.5	(0.4)	16.3	(1.2)
OECD	Austria	8.4	(0.4)	11.8	(0.2)	3.4	(0.4)	-2.7	(0.3)	3.2	(0.8)	-0.9	(0.3)	31.6	(1.8)
0	Belgium Canada	7.7 16.1	(0.3)	9.2 15.9	(0.2)	1.6 -0.2	(0.4)	14.8 1.5	(1.9)	17.4 0.6	(3.2)	3.8 0.9	(1.3)	36.7 11.2	(1.9) (1.1)
	Chile	17.1	(1.0)	21.0	(0.6)	3.9	(1.1)	0.8	(0.6)	0.6	(0.6)	0.9	(0.4)	26.8	(1.7)
	Czech Republic	15.1	(0.2)	11.2	(0.2)	-3.9	(0.3)	-0.8	(1.0)	0.1	(0.3)	0.0	(0.6)	32.9	(2.1)
	Denmark	12.7	(0.2)	С	С	С	С	2.7	(1.2)	0.8	(0.8)	1.1	(1.0)	12.1	(1.4)
	Estonia	11.9	(0.2)	12.2	(1.2)	0.3	(1.2)	2.4	(0.8)	0.9	(0.6)	-1.3	(0.8)	11.0	(1.4)
	Finland France	10.3 13.7	(0.1)	11.9	(0.4)	-1.7	(0.4)	0.4 1.4	(1.3) (0.7)	0.0 0.4	(0.1)	-1.0 -0.1	(1.1)	11.0 38.1	(1.3)
	Germany	14.4	(0.4)	20.5	(2.5)	6.0	(2.5)	2.0	(0.9)	0.7	(0.7)	1.5	(0.5)	36.2	(2.4)
	Greece	9.9	(0.3)	9.6	(0.2)	-0.4	(0.4)	5.2	(1.6)	2.4	(1.3)	2.9	(0.9)	23.9	(2.9)
	Hungary	10.4	(0.4)	9.8	(0.3)	-0.6	(0.5)	3.4	(1.8)	1.9	(1.9)	1.3	(0.7)	43.5	(2.2)
	Iceland	9.9	(0.0)	m	m	m	m	-2.1	(0.6)	0.5	(0.3)	-1.9	(0.6)	5.3	(0.8)
	Ireland Israel	14.4 12.2	(0.7)	14.5 11.5	(0.6)	0.1 -0.7	(0.2)	0.6 1.0	(0.4)	0.3	(0.2)	0.3 0.2	(0.2)	15.8 23.1	(1.3)
	Italy	10.0	(0.9)	10.5	(0.4)	0.5	(0.9)	8.3	(1.5)	8.6	(2.7)	2.3	(1.2)	23.1	(2.6)
	Japan	m	m	11.5	(0.2)	m	m	3.6	(0.9)	2.5	(1.3)	0.8	(0.7)	28.2	(2.4)
	Korea	16.3	(0.9)	15.0	(0.2)	-1.4	(0.9)	6.6	(1.3)	4.1	(1.5)	1.4	(1.1)	18.1	(2.1)
	Latvia	10.1	(0.1)	9.9	(0.6)	-0.2	(0.6)	4.2	(0.7)	2.1	(0.6)	0.1	(0.7)	12.1	(1.5)
	Luxembourg	9.4 24.8	(0.0)	10.0 30.9	(0.0)	0.6	(0.0)	4.8 0.2	(0.5)	1.1 0.2	(0.2)	0.1	(0.5)	34.2 17.0	(1.0) (2.1)
	Mexico Netherlands	19.8	(1.9)	21.9	(2.6)	6.0 2.1	(2.9)	0.2	(0.2)	0.2	(1.1)	0.3	(0.2)	38.7	(5.3)
	New Zealand	14.7	(0.3)	14.6	(0.2)	-0.1	(0.2)	1.8	(2.2)	0.2	(0.6)	-0.2	(1.1)	19.3	(2.0)
	Norway	10.2	(0.1)	С	С	С	С	1.6	(1.2)	0.1	(0.2)	-0.8	(1.1)	8.9	(0.9)
	Poland	8.7	(0.2)	С	С	С	С	1.8	(1.4)	0.3	(0.4)	0.3	(0.9)	15.5	(1.6)
	Portugal	10.8	(0.4)	11.1	(0.2)	0.4	(0.4)	1.6	(1.8)	0.3	(0.7)	-0.1	(0.6)	19.8	(1.9)
	Slovak Republic Slovenia	13.1 9.4	(0.2)	12.2 10.8	(0.3)	-0.9 1.5	(0.4)	1.0 2.9	(1.2)	0.1 1.8	(0.3)	-0.5 1.3	(0.6)	30.2 35.7	(2.4)
	Spain	12.5	(0.2)	С С	(0.0) C	C	(0.5) C	2.2	(0.8)	1.0	(0.6)	-0.6	(0.4)	14.0	(1.2)
	Sweden	11.5	(0.2)	12.5	(1.9)	1.0	(2.0)	3.7	(1.0)	1.4	(0.7)	1.5	(0.7)	16.5	(1.8)
	Switzerland	11.4	(0.2)	15.0	(0.9)	3.6	(0.9)	2.5	(0.6)	1.3	(0.7)	3.5	(0.6)	26.7	(1.9)
	Turkey	20.3	(2.1)	15.0	(0.4)	-5.3	(2.2)	0.5	(0.9)	0.1	(0.4)	1.4	(0.5)	27.2	(4.1)
	United Kingdom United States	12.0 15.1	(0.4)	14.7 16.1	(0.3)	2.6 1.0	(0.5)	1.7 0.3	(1.4)	0.3	(0.5)	-0.1 0.7	(0.7)	20.1 14.3	(1.9)
	OECD average	12.9	(0.1)	13.9	(0.2)	0.7	(0.2)	2.3	(0.2)	1.6	(0.2)	0.6	(0.1)	22.7	(0.4)
								2.3	(0.2)	1.0	(0.2)	0.0	(0.1)	22.7	(0.4)
SLS	Albania	6.8	(1.0)	9.4	(1.2)	2.6	(1.4)	m	m (O, O)	m	m (1.5)	m	m	m	m (2.0)
Partners	Algeria Brazil	17.9 30.0	(0.4)	15.5 28.8	(0.4)	-2.3 -1.2	(0.5)	-3.0 -0.5	(0.8)	2.9 0.7	(1.5)	-2.2 -0.3	(0.8)	11.2 21.7	(2.9)
Pa	B-S-J-G (China)	13.7	(0.6)	14.0	(0.7)	0.3	(0.9)	-1.7	(0.2)	1.4	(1.0)	-0.5	(0.4)	34.8	(3.1)
	Bulgaria	11.8	(0.7)	12.2	(0.2)	0.3	(0.7)	7.2	(2.6)	5.2	(3.0)	3.0	(1.1)	37.5	(3.1)
	CABA (Argentina)	10.1	(1.1)	12.1	(1.5)	2.0	(1.8)	0.3	(1.2)	0.1	(0.6)	0.4	(0.6)	36.3	(3.8)
	Colombia	29.1	(1.2)	28.1	(0.9)	-1.0	(0.9)	-0.6	(0.2)	1.2	(0.9)	0.0	(0.2)	19.8	(2.6)
	Costa Rica Croatia	16.8 c	(0.8) C	17.0 11.5	(0.9)	0.2 c	(0.6) C	-0.1 6.7	(0.2)	0.0 3.6	(0.1)	-0.1 0.7	(0.1)	22.4 26.1	(2.1)
	Cyprus*	7.5	(0.0)	7.5	(0.0)	0.0	(0.0)	15.8	(0.6)	10.0	(0.7)	6.0	(0.8)	17.8	(0.9)
	Dominican Republic	38.0	(2.5)	27.5	(1.0)	-10.5	(2.7)	-0.9	(0.2)	4.2	(1.7)	-0.2	(0.1)	26.5	(3.3)
	FYROM	С	С	13.8	(0.0)	С	С	0.6	(0.1)	0.4	(0.2)	0.4	(0.1)	14.9	(1.1)
	Georgia	14.7 13.2	(0.4)	13.7	(0.4)	-0.9	(0.3)	0.8	(0.5)	0.3	(0.4)	-0.3	(0.3)	15.2	(1.6)
	Hong Kong (China) Indonesia	16.5	(0.2)	13.6 14.9	(0.2)	0.4 -1.7	(0.1)	11.3 0.3	(2.7)	9.7 0.3	(2.5)	8.7 0.1	(2.4) (0.2)	18.7 25.8	(2.5)
	Jordan	17.0	(0.6)	m	(1.2) m	-1.7 m	(1.0) m	0.3	(0.4)	0.3	(0.0)	0.6	(0.2)	12.3	(2.3)
	Kosovo	20.7	(1.1)	18.6	(0.1)	-2.1	(1.1)	0.4	(0.1)	0.3	(0.2)	0.5	(0.1)	14.7	(1.5)
	Lebanon	12.9	(0.9)	11.1	(0.3)	-1.9	(0.9)	0.8	(0.9)	0.4	(0.8)	0.1	(0.6)	16.2	(3.6)
	Lithuania Macao (China)	10.4	(0.2)	14.9	(0.0)	0.6	(0.0)	3.2 3.3	(2.7)	1.9 3.8	(1.9)	0.0	(0.5)	21.4	(2.3)
	Malta	14.4 c	(0.0) C	7.3	(0.0)	0.6 C	(U.U)	8.7	(0.2)	7.2	(0.6)	4.1 2.2	(0.2)	7.7 22.6	(0.7)
	Moldova	12.6	(0.3)	16.3	(2.0)	3.7	(2.0)	-0.7	(0.4)	0.1	(0.2)	-0.9	(0.4)	13.9	(1.7)
	Montenegro	15.3	(1.2)	13.7	(0.0)	-1.6	(1.2)	2.1	(0.3)	0.9	(0.3)	-0.5	(0.3)	17.2	(0.9)
	Peru	18.8	(1.4)	18.5	(0.6)	-0.2	(1.4)	0.4	(0.4)	0.2	(0.5)	0.0	(0.2)	30.0	(2.2)
	Qatar Romania	12.0 15.4	(0.0)	11.4 m	(0.0)	-0.6 m	(0.0)	5.2 1.3	(0.1)	7.0 0.7	(0.4)	4.8 0.2	(0.1)	20.0	(0.6)
	Russia	14.7	(0.4)	16.3	m (1.0)	1.6	m (0.9)	0.8	(0.7)	0.7	(0.4)	-0.3	(0.5)	9.8	(1.8)
	Singapore	11.4	(0.4)	12.1	(0.1)	0.7	(0.3)	2.6	(0.7)	0.4	(0.2)	2.4	(1.0)	27.2	(1.5)
	Chinese Taipei	13.5	(0.2)	18.0	(0.4)	4.6	(0.4)	-0.9	(0.6)	0.3	(0.4)	-2.1	(0.3)	30.0	(2.5)
	Thailand	17.0	(0.4)	20.7	(0.8)	3.7	(0.8)	0.0	(0.3)	0.0	(0.1)	-0.2	(0.2)	18.9	(3.2)
	Trinidad and Tobago Tunisia	11.9	(0.0)	14.1	(0.0)	2.2	(0.0)	9.9	(0.4)	14.8	(1.0)	4.1	(0.4)	38.4	(1.2)
	United Arab Emirates	11.2 13.9	(0.4)	11.6 14.1	(1.1)	0.3	(1.1)	0.0 3.0	(0.3)	0.0 4.2	(0.1)	0.1 2.8	(0.3)	18.5 20.2	(3.8) (1.9)
	Uruguay	12.5	(0.7)	14.4	(0.9)	1.8	(1.0)	0.1	(0.3)	0.0	(0.1)	0.2	(0.3)	26.3	(1.8)
	Viet Nam	16.9	(0.8)	16.1	(0.4)	-0.7	(0.9)	-0.1	(0.9)	0.0	(0.3)	-0.2	(0.7)	19.6	(4.3)
	Argentina**	10.1	(1.4)	10.0	(0.8)	0.0	(1.3)	0.1	(0.4)	0.0	(0.2)	0.0	(0.2)	19.2	(2.3)
	Kazakhstan**	11.9	(1.0)	11.8	(1.4)	-0.1	(1.0)	-0.2	(0.2)	0.1	(0.3)	-0.2	(0.2)	8.7	(2.4)
-	Malaysia**	13.8	(0.6)	12.6	(0.2)	-1.3	(0.7)	-2.4	(0.9)	1.0	(0.7)	-2.4	(0.7)	19.0	(2.3)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status. Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/1]

Table II.6.32 Average time per week spent learning in regular lessons

			1	• •	spent learning, in	iloui s		
	Regular scie	ence lessons	Regular languag less		Regular mathe	matics lessons	Total lear in regula	
	Hours	S.E.	Hours	S.E.	Hours	S.E.	Hours	S.E.
Australia	3.5	(0.0)	3.9	(0.0)	4.0	(0.0)	25.7	(0.1)
Austria	4.9	(0.1)	2.4	(0.0)	2.4	(0.0)	28.8	(0.2)
Belgium	2.9	(0.0)	3.5	(0.0)	3.4	(0.0)	27.7	(0.1)
Canada	4.8	(0.1)	5.2	(0.1)	5.0	(0.1)	27.1	(0.1)
Chile	5.8	(0.1)	6.7	(0.1)	7.2	(0.1)	31.9	(0.2)
Czech Republic	4.1	(0.0)	3.1	(0.0)	3.1	(0.0)	25.1	(0.1)
Denmark	3.4	(0.0)	5.5	(0.1)	4.2	(0.0)	27.3	(0.2)
Estonia	3.6	(0.0)	3.2	(0.0)	3.5	(0.0)	25.4	(0.1)
Finland	2.8	(0.0)	2.5	(0.0)	2.9	(0.0)	24.2	(0.2)
France	3.0	(0.0)	3.8	(0.0)	3.6	(0.0)	27.2	(0.1)
Germany	3.7	(0.1)	3.3	(0.0)	3.2	(0.0)	25.5	(0.1)
Greece	3.8	(0.0)	2.7	(0.0)	3.4	(0.0)	27.0	(0.1)
Hungary Iceland	3.1 2.3	(0.1)	4.0	(0.0)	3.9	(0.0)	26.2 26.3	(0.1)
Ireland	2.3	(0.0)	3.0	(0.0)	3.2	(0.0)	28.4	(0.1)
Israel	3.4	(0.1)	3.2	(0.0)	3.9	(0.1)	28.4	(0.1)
Italy	2.6	(0.1)	4.6	(0.0)	3.8	(0.0)	28.6	(0.1)
Japan	2.9	(0.1)	3.7	(0.0)	4.0	(0.0)	27.5	(0.1)
Korea	2.8	(0.0)	3.3	(0.0)	3.5	(0.0)	30.3	(0.1)
Latvia	4.3	(0.0)	2.6	(0.0)	3.8	(0.0)	25.2	(0.1)
Luxembourg	3.2	(0.0)	3.3	(0.0)	3.4	(0.0)	26.6	(0.1)
Mexico	3.9	(0.1)	3.9	(0.0)	4.0	(0.0)	27.8	(0.1)
Netherlands	4.4	(0.1)	2.9	(0.0)	2.6	(0.0)	26.8	(0.1)
New Zealand	4.2	(0.0)	4.1	(0.0)	4.1	(0.0)	25.3	(0.1)
Norway	2.4	(0.0)	3.7	(0.0)	3.3	(0.0)	25.0	(0.2)
Poland	3.0	(0.0)	3.8	(0.0)	3.5	(0.0)	27.8	(0.1)
Portugal	3.7	(0.1)	4.0	(0.0)	4.4	(0.1)	28.2	(0.2)
Slovak Republic	3.1	(0.1)	3.2	(0.0)	3.1	(0.0)	24.5	(0.1)
Slovenia	3.5	(0.0)	2.9	(0.0)	2.7	(0.0)	27.1	(0.1)
Spain	3.3	(0.0)	3.4	(0.0)	3.6	(0.0)	28.3	(0.1)
Sweden	3.0	(0.1)	3.1	(0.0)	3.2	(0.0)	25.9	(0.2)
Switzerland	2.5	(0.1)	3.4	(0.0)	3.5	(0.0)	25.1	(0.2)
Turkey	3.4	(0.1)	2.9	(0.0)	3.7	(0.0)	25.9	(0.1)
United Kingdom	4.7	(0.0)	4.0	(0.0)	3.9	(0.0)	26.5	(0.1)
United States	4.0	(0.1)	4.3	(0.1)	4.1	(0.1)	27.7	(0.2)
OECD average	3.5	(0.0)	3.6	(0.0)	3.6	(0.0)	26.9	(0.0)
Albania	m	m	m	m	m	m	m	m
Albania Algeria Brazil	m	m	m	m	m	m	m	m
Brazil	2.8	(0.1)	3.6	(0.0)	3.6	(0.0)	24.9	(0.2)
B-S-J-G (China)	5.6	(0.1)	4.7	(0.1)	4.9	(0.1)	30.1	(0.2)
Bulgaria	4.3	(0.1)	2.5	(0.0)	2.4	(0.1)	24.3	(0.2)
CABA (Argentina)	m	m	m	m	m	m	m	m
Colombia	3.4	(0.1)	3.5	(0.0)	3.8	(0.1)	26.6	(0.2)
Costa Rica	3.8	(0.0)	3.2	(0.0)	3.4	(0.0)	31.5	(0.3)
Croatia	3.2	(0.1)	2.8	(0.0)	2.5	(0.0)	26.1	(0.1)
Cyprus*	3.1	(0.0)	3.4	(0.0)	3.1	(0.0)	26.8	(0.1)
Dominican Republic	3.5	(0.1)	3.6	(0.1)	3.7	(0.1)	25.1	(0.3)
FYROM	m		m	m	m	m	m	m
		m	111	***	111			
Georgia	m	m m	m	m	m	m	m	m
Hong Kong (China)							m 28.8	
Hong Kong (China) Indonesia	m 3.8 m	m (0.1) m	m 5.1 m	m (0.1) m	m 4.8 m	m (0.1) m	28.8 m	m (0.2) m
Hong Kong (China) Indonesia Jordan	3.8 m m	m (0.1) m m	5.1 m m	m (0.1) m m	4.8 m m	m (0.1) m m	28.8 m m	m (0.2) m m
Hong Kong (China) Indonesia Jordan Kosovo	m 3.8 m	m (0.1) m	m 5.1 m	m (0.1) m	m 4.8 m	m (0.1) m	28.8 m	m (0.2) m
Hong Kong (China) Indonesia Jordan Kosovo Lebanon	m 3.8 m m m	m (0.1) m m m	m 5.1 m m m m	m (0.1) m m m	m 4.8 m m m m	m (0.1) m m m m	28.8 m m m m	m (0.2) m m m m
Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania	m 3.8 m m m m	m (0.1) m m m m (0.0)	m 5.1 m m m m	m (0.1) m m m m (0.0)	m 4.8 m m m m m 2.9	m (0.1) m m m m (0.0)	28.8 m m m m 24.7	m (0.2) m m m m
Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China)	m 3.8 m m m m 4.3 3.7	m (0.1) m m m m (0.0) (0.0) (0.0)	m 5.1 m m m m m 3.4 4.4	m (0.1) m m m m (0.0) (0.0) (0.0)	m 4.8 m m m m 2.9	m (0.1) m m m m m (0.0) (0.0) (0.0)	28.8 m m m m 24.7 28.3	m (0.2) m m m m (0.1) (0.1)
Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China)	m 3.8 m m m m 4.3 3.7 m	m (0.1) m m m m (0.0) (0.0)	m 5.1 m m m m m 3.4 4.4 m	m (0.1) m m m m m (0.0) (0.0) (0.0)	m 4.8 m m m m 2.9 4.6 m	m (0.1) m m m m m (0.0) (0.0) (0.0)	28.8 m m m m 24.7 28.3 m	m (0.2) m m m m (0.1) (0.1) (0.1) m
Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova	m 3.8 m m m 4.3 3.7 m m m	m (0.1) m m m (0.0) (0.0) (0.0) m m m	m 5.1 m m m m 3.4 4.4 m m m	m (0.1) m m m (0.0) (0.0) (0.0) m m	m 4.8 m m m 2.9 4.6 m m m	m (0.1) m m m (0.0) (0.0) (0.0) m m m	28.8 m m m m 24.7 28.3 m m	m (0.2) m m m m (0.1) (0.1) m m m
Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro	m 3.8 m m m m 4.3 3.7 m m m 1.7	m (0.1) m m m (0.0) (0.0) m m (0.0)	m 5.1 m m m m m 3.4 4.4 m m 2.6	m (0.1) m m m (0.0) (0.0) m m (0.0)	m 4.8 m m m m 2.9 4.6 m m 2.4	m (0.1) m m m m (0.0) (0.0) (0.0) m m (0.0)	28.8 m m m m 24.7 28.3 m m 26.0	m (0.2) m m m (0.1) (0.1) m m m (0.1) (0.1)
Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru	m 3.8 m m m m 4.3 3.7 m m m 1.7 4.0	m (0.1) m m m m (0.0) (0.0) m m (0.0) (0.1)	m 5.1 m m m m 3.4 4.4 m m 2.6 4.8	m (0.1) m m m m (0.0) (0.0) m m (0.0) (0.1)	m 4.8 m m m m 2.9 4.6 m m 2.4 5.4	m (0.1) m m m m (0.0) (0.0) (0.0) m m (0.0) (0.1)	28.8 m m m m 24.7 28.3 m m 26.0 29.1	m (0.2) m m m (0.1) (0.1) m m (0.1) (0.1) (0.2)
Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar	m 3.8 m m m 4.3 3.7 m m 4.0 5.1	m (0.1) m m m (0.0) (0.0) m m (0.0) (0.1) (0.0)	m 5.1 m m m 3.4 4.4 m m m 2.6 4.8 4.2	m (0.1) m m m (0.0) (0.0) m m (0.0) (0.1) (0.0)	m 4.8 m m m 2.9 4.6 m m 2.4 5.4 4.6	m (0.1) m m m (0.0) (0.0) m m (0.0) (0.1) (0.0)	28.8 m m m m 24.7 28.3 m m 26.0 29.1 28.7	m (0.2) m m m (0.1) (0.1) m m (0.1) (0.2) (0.2) (0.1)
Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania	m 3.8 m m m 4.3 3.7 m m m 1.7 4.0 5.1 m	m (0.1) m m m (0.0) (0.0) m m (0.0) (0.1) (0.0) m m	m 5.1 m m m m 3.4 4.4 m m m 2.6 4.8 4.2 m	m (0.1) m m m (0.0) (0.0) m m (0.0) (0.1) (0.0) m m m (0.0) (0.1) (0.0) m m	m 4.8 m m m m 2.9 4.6 m m m 4.6 to 4.6 m m m 4.6 to 5.4 to 6.6 m m m 4.6 to 6.6 m m m 4.6 to 6.6 m m m 6.7 to 6.6 to 6.6 to 6.6 to 6.6 to 6.7 to 6.6 to 6.7 to 6.6 to 6.7	m (0.1) m m m (0.0) (0.0) m m (0.0) (0.1) (0.0) m m	28.8 m m m 24.7 28.3 m m 26.0 29.1 28.7 m	m (0.2) m m m m (0.1) (0.1) m m (0.1) (0.2) (0.1) m m
Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia	m 3.8 m m m m 4.3 3.7 m m m 1.7 4.0 5.1 m m 5.2	m (0.1) m m m m (0.0) (0.0) (0.0) (0.0) (0.1) (0.0) m m (0.1)	m 5.1 m m m m m 3.4 4.4 m m 2.6 4.8 4.2 m 2.3	m (0.1) m m m m (0.0) (0	m 4.8 m m m m 2.9 4.6 m m 2.4 5.4 4.6 m m 4.0	m (0.1) m m m m (0.0) (0.0) (0.0) (0.0) (0.1) (0.0) (0.1)	28.8 m m m 24.7 28.3 m m 26.0 29.1 28.7 m	m (0.2) m m m (0.1) (0.1) m m (0.1) (0.2) (0.1) m (0.2) (0.1) m (0.2) (0.1) m m (0.2) (0.1) m m m (0.2)
Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Perru Qatar Romania Russia Singapore	m 3.8 m m m 4.3 3.7 m m 1.7 4.0 5.1 m 5.2 5.5	m (0.1) m m m (0.0) (0.0) (0.0) m m (0.0) (0.1) (0.0) m (0.1) (0.0) m (0.1) (0.0)	m 5.1 m m m m 3.4 4.4 m m m 2.6 4.8 4.2 m 2.3 4.3	m (0.1) m m m (0.0) (0.0) m m (0.0) (0.0) m m (0.0) (0.0) m m (0.0) (0.0) (0.0) m (0.0) (0.0) (0.0) (0.0)	m 4.8 m m m m 2.9 4.6 m m m 4.8 m m 4.0 5.1	m (0.1) m m m (0.0) (0.0) (0.0) m m (0.0) (0.1) (0.0) m (0.1) (0.0) m m (0.0) (0.1) (0.0) m (0.1) (0.0) m (0.1) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	28.8 m m m 24.7 28.3 m m 26.0 29.1 28.7 m 25.9 28.6	m (0.2) m m m (0.1) (0.1) m m (0.2) (0.1) m m (0.2) (0.1) (0.2) (0.1) m m (0.2) (0.2) (0.1) m m (0.2) (0.2) (0.1)
Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei	m 3.8 m m m 4.3 3.7 m m 1.7 4.0 5.1 m 5.2 5.5 3.0	m (0.1) m m m (0.0) (0.0) m m (0.1) (0.0) m (0.1) (0.0) (0.1) (0.0) (0.0) (0.0)	m 5.1 m m m m 3.4 4.4 m m m 2.6 4.8 4.2 m 2.3 4.3 4.1	m (0.1) m m m (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	m 4.8 m m m m 2.9 4.6 m m 4.6 m 4.6 m 5.4 4.6 m 4.0 5.1	m (0.1) m m m (0.0) (0.0) (0.0) m m (0.1) (0.0) (0.0) (0.1) (0.0) (0.1) (0.0) (0.0) (0.0)	28.8 m m m 24.7 28.3 m m 26.0 29.1 28.7 m 25.9 28.6 31.8	m (0.2) m m m m m (0.1) (0.1) m m (0.2) (0.1) m m (0.2) (0.1) (0.1) (0.1) m m (0.2) (0.1) (0.1) (0.1)
Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand	m 3.8 m m m m m 4.3 3.7 m m 1.7 4.0 5.1 m 5.2 5.5 3.0 4.4	m (0.1) m m m m m (0.0) (0.0) (0.0) m m (0.0) (0.1) (0.0) m (0.1) (0.0) (0.1) (0.0) (0.1)	m 5.1 m m m m m m 3.4 4.4 m m 2.6 4.8 4.2 m 2.3 4.3 4.1 2.6	m (0.1) m m m m m (0.0) (0.0) (0.0) m m (0.0) (0.1) (0.0) m (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	m 4.8 m m m m m 2.9 4.6 m m 2.4 5.4 4.6 m 4.0 5.1 3.8 3.6	m (0.1) m m m m m (0.0) (0.0) (0.1) m m (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.0) (0.1)	28.8 m m m m 24.7 28.3 m m 26.0 29.1 28.7 m 25.9 28.6 31.8	m (0.2) m m m m m (0.1) (0.1) (0.1) m m (0.1) (0.2) (0.1) (0.2) (0.1) (0.1) (0.1) (0.1) (0.1)
Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	m 3.8 m m m m 4.3 3.7 m m m 1.7 4.0 5.1 m 5.2 5.5 3.0 4.4 m	m (0.1) m m m (0.0) (0.0) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) m m	m 5.1 m m m m m 3.4 4.4 m m m 2.6 4.8 4.2 m 2.3 4.3 4.1 2.6 m	m (0.1) m m m m (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) m m	m 4.8 m m m m 2.9 4.6 m m 2.4 5.4 4.6 m 4.0 5.1 3.8 3.6 m	m (0.1) m m (0.0) (0.0) (0.0) m m (0.1) (0.0) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) m m (0.1) (0.0) (0.1) m m	28.8 m m m 24.7 28.3 m m 26.0 29.1 28.7 m 25.9 28.6 31.8 m	m (0.2) m m m m m m (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.2) (0.1) m m
Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	m 3.8 m m m 4.3 3.7 m m 1.7 4.0 5.1 m 5.2 5.5 3.0 4.4 m 2.6	m (0.1) m m m (0.0) (0.0) (0.0) m m (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) m (0.0) (0.1) m (0.0) (0.1) m (0.0) (0.1) m (0.0) (0.0) (0.1) m (0.0)	m 5.1 m m m m 3.4 4.4 m m m 2.6 4.8 4.2 m 2.3 4.3 4.1 2.6 m 4.5	m (0.1) m m m m (0.0) (0.0) (0.0) m m (0.0) (0.0	m 4.8 m m m m m 2.9 4.6 m m m 2.4 5.4 4.6 m 4.0 5.1 3.8 3.6 m 4.0	m (0.1) m m (0.0) (0.0) (0.0) m m (0.1) (0.0) (0.0) (0.1) (0.0) (0.1) (0.0) (0.0) (0.1) (0.0) (0.0) (0.1) (0.0) (0.0) (0.1) (0.0) (0.0) (0.1) (0.0) (0.0) (0.1) m (0.0)	28.8 m m m m m 24.7 28.3 m m m 26.0 29.1 28.7 m 25.9 28.6 31.8 31.8 m 30.1	m (0.2) m m m m m (0.1) (0.1) m m m (0.1) (0.2) (0.1) (0.1) (0.1) (0.1) (0.1) (0.2) (0.2) (0.2)
Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	m 3.8 m m m m m 4.3 3.7 m m 1.7 4.0 5.1 m 5.2 5.5 5.3 3.0 4.4 m 2.6 5.3	m (0.1) m m m (0.0) (0.0) (0.1) m m (0.0) (0.1)	m 5.1 m m m m m m 3.4 4.4 m m 2.6 4.8 4.2 m 2.3 4.3 4.1 2.6 m 4.5 4.6	m (0.1) m m m m m (0.0) (0.0) (0.0) (0.1) (0.1) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	m 4.8 m m m m m m 2.9 4.6 m m 2.4 5.4 4.6 m 4.0 5.1 3.8 3.6 m 4.0 5.0 5.0	m (0.1) m m m m (0.0) (0.0) (0.1) m m (0.0) (0.1) m m (0.1) (0.0) (0.1) m m (0.0) (0.0) (0.1) m m (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	28.8 m m m m m m 24.7 28.3 m m m 26.0 29.1 28.7 m m 25.9 28.6 31.8 31.8 m 30.1 28.8	m (0.2) m m m m m (0.1) (0.1) m m (0.1) (0.2) (0.1) m (0.2) (0.1) (0.2) (0.1) (0.2) (0.1) (0.2) (0.1) (0.2) m m (0.2) (0.2) (0.1) (0.2) (0.2) (0.2) (0.1)
Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	m 3.8 m m m m m 4.3 3.7 m m m 1.7 4.0 5.1 m 5.2 5.5 3.0 4.4 m m 2.6 5.3 3.4	m (0.1) m m m m (0.0) (0.0) (0.0) (0.0) (0.1) m m (0.0) (0.1) (0.1) (0.1) (0.1)	m 5.1 m m m m m m m 3.4 4.4 m m m 2.6 4.8 4.2 m 2.3 4.3 4.1 2.6 m 4.5 4.6 2.5	m (0.1) m m m m m (0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	m 4.8 m m m m 2.9 4.6 m m 2.4 5.4 4.6 m 4.0 5.1 3.8 3.6 m 4.0 5.0 2.8	m (0.1) m m (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.1) m m (0.0) (0.1) m m (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	28.8 m m m m m m m 24.7 28.3 m m m 26.0 29.1 28.7 m 25.9 28.6 31.8 31.8 m 30.1 28.8 23.1	m (0.2) m m m m m (0.1) (0.1) (0.1) m m (0.2) (0.1) (0.1) (0.2) (0.1) (0.2) m m (0.2) (0.1) (0.2) (0.1) (0.2) (0.1) (0.2) (0.1) (0.2) (0.1) (0.2) (0.1) (0.2)
Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	m 3.8 m m m m m 4.3 3.7 m m 1.7 4.0 5.1 m 5.2 5.5 5.3 3.0 4.4 m 2.6 5.3	m (0.1) m m m (0.0) (0.0) (0.1) m m (0.0) (0.1)	m 5.1 m m m m m m 3.4 4.4 m m 2.6 4.8 4.2 m 2.3 4.3 4.1 2.6 m 4.5 4.6	m (0.1) m m m m m (0.0) (0.0) (0.0) (0.1) (0.1) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	m 4.8 m m m m m m 2.9 4.6 m m 2.4 5.4 4.6 m 4.0 5.1 3.8 3.6 m 4.0 5.0 5.0	m (0.1) m m m m (0.0) (0.0) (0.1) m m (0.0) (0.1) m m (0.1) (0.0) (0.1) m m (0.0) (0.0) (0.1) m m (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	28.8 m m m m m m 24.7 28.3 m m m 26.0 29.1 28.7 m m 25.9 28.6 31.8 31.8 m 30.1 28.8	m (0.2) m m m m m (0.1) (0.1) m m (0.1) (0.2) (0.1) m (0.2) (0.1) (0.2) (0.1) (0.2) (0.1) (0.2) (0.1) (0.2) m m (0.2) (0.2) (0.1) (0.2) (0.2) (0.2) (0.1)
Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	m 3.8 m m m m m 4.3 3.7 m m m 1.7 4.0 5.1 m 5.2 5.5 3.0 4.4 m m 2.6 5.3 3.4	m (0.1) m m m m (0.0) (0.0) (0.0) (0.0) (0.1) m m (0.0) (0.1) (0.1) (0.1) (0.1)	m 5.1 m m m m m m m 3.4 4.4 m m m 2.6 4.8 4.2 m 2.3 4.3 4.1 2.6 m 4.5 4.6 2.5	m (0.1) m m m m m (0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	m 4.8 m m m m 2.9 4.6 m m 2.4 5.4 4.6 m 4.0 5.1 3.8 3.6 m 4.0 5.0 2.8	m (0.1) m m (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.1) m m (0.0) (0.1) m m (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	28.8 m m m m m m m 24.7 28.3 m m m 26.0 29.1 28.7 m 25.9 28.6 31.8 31.8 m 30.1 28.8 23.1	m (0.2) m m m m m (0.1) (0.1) (0.1) m m (0.2) (0.1) (0.1) (0.2) (0.1) (0.2) m m (0.2) (0.1) (0.2) (0.1) (0.2) (0.1) (0.2) (0.1) (0.2) (0.1) (0.2) (0.1) (0.2)
Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	m 3.8 m m m m m 4.3 3.7 m m m 1.7 4.0 5.1 m 5.2 5.5 3.0 4.4 m m 2.6 5.3 3.4 m	m (0.1) m m m m (0.0) (0.0) (0.0) (0.0) (0.1) m m (0.0) (0.1) m m (0.0) (0.1) m m (0.0) (0.1) m m (0.1) (0.1) m m (0.1) (0.1) m m	m 5.1 m m m m m m 3.4 4.4 m m 2.6 4.8 4.2 m 2.3 4.3 4.1 2.6 m 4.5 4.6 2.5 m	m (0.1) m m m m m (0.0) (0.0) (0.0) (0.0) m (0.0) (0.0) m m m m m m m m m m m m m m m m m m m	m 4.8 m m m m 2.9 4.6 m m 2.4 5.4 4.6 m 4.0 5.1 3.8 3.6 m 4.0 5.0 2.8 m	m (0.1) m m (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) (0.1) m m (0.0) (0.1) m m (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) m m	28.8 m m m m 24.7 28.3 m m m 26.0 29.1 28.7 m m 25.9 28.6 31.8 31.8 m 30.1 28.8 23.1 m	m (0.2) m m m m m (0.1) (0.1) (0.1) m m (0.2) (0.1) (0.1) (0.2) (0.1) (0.2) (0.1) (0.2) m m (0.2) (0.2) m m (0.2) (0.1) (0.2) m m (0.2) (0.1) (0.2) m m

^{1.} Total learning time includes all school subjects.
* See note at the beginning of this Annex.
** Coverage is too small to ensure comparability (see Annex A4).
StatLink ** http://dx.doi.org/10.1787/888933436513



[Part 1/3]

Table II.6.33 Average time per week in regular science lessons, science performance and school characteristics

				Avera	ige time pe	er week sp	ent learnin	0 0						
		All st	ıdents					By sch	ool socio-e	conomic p	orofile ¹		Top - b	oottom
	Ave			bility S.E.	Bottom	•	Second	•	Third o		Top qu			rter
Australia	Hours 3.5	(0.0)	S.D.	(0.0)	Hours 3.3	S.E. (0.1)	Hours 3.5	S.E. (0.1)	Hours 3.5	S.E. (0.1)	Hours 3.8	S.E. (0.1)	0.5	S.E. (0.1)
Austria	4.9	(0.1)	4.2	(0.1)	4.5	(0.3)	4.9	(0.3)	5.2	(0.3)	4.9	(0.1)	0.4	(0.3)
Belgium	2.9	(0.0)	2.2	(0.1)	2.2	(0.1)	2.5	(0.1)	3.3	(0.1)	3.6	(0.1)	1.4	(0.1)
Canada	4.8	(0.1)	2.9	(0.1)	4.6	(0.1)	4.9	(0.1)	5.0	(0.1)	4.9	(0.1)	0.3	(0.2)
Chile	5.8	(0.1)	3.8	(0.1)	5.3	(0.2)	5.5	(0.3)	5.8	(0.3)	6.6	(0.2)	1.3	(0.3)
Czech Republic	4.1	(0.0)	2.3	(0.1)	3.5	(0.1)	4.0	(0.1)	3.8	(0.2)	5.2	(0.1)	1.7	(0.1)
Denmark	3.4	(0.0)	1.5	(0.1)	3.3	(0.1)	3.4	(0.1)	3.4	(0.1)	3.6	(0.1)	0.3	(0.1)
Estonia Finland	3.6	(0.0)	1.8	(0.0)	3.7	(0.1)	3.6	(0.1)	3.6	(0.1)	3.7	(0.1)	-0.1	(0.1)
	2.8 3.0	(0.0)	1.5 2.0	(0.1)	2.6 1.9	(0.1)	2.8 2.9	(0.1)	3.0 3.4	(0.1)	2.9 3.8	(0.1)	0.3 1.9	(0.1)
France Germany	3.7	(0.0)	2.0	(0.1)	2.5	(0.1)	3.1	(0.1)	4.1	(0.1)	4.9	(0.1)	2.5	(0.1)
Greece	3.8	(0.0)	2.2	(0.1)	3.2	(0.1)	3.7	(0.1)	4.1	(0.2)	4.9	(0.1)	1.1	(0.2)
Hungary	3.1	(0.0)	1.9	(0.1)	3.2	(0.1)	3.2	(0.1)	3.0	(0.1)	3.0	(0.1)	-0.2	(0.2)
Iceland	2.3	(0.0)	1.0	(0.1)	2.3	(0.0)	2.4	(0.0)	2.2	(0.0)	2.2	(0.2)	-0.2	(0.0)
Ireland	2.4	(0.0)	1.2	(0.0)	2.2	(0.1)	2.4	(0.1)	2.4	(0.1)	2.5	(0.1)	0.3	(0.1)
Israel	3.4	(0.1)	2.5	(0.1)	3.8	(0.2)	3.2	(0.2)	3.1	(0.3)	3.4	(0.2)	-0.4	(0.3)
Italy	2.6	(0.1)	2.0	(0.1)	2.6	(0.1)	2.7	(0.1)	2.6	(0.1)	2.4	(0.1)	-0.2	(0.1)
Japan	2.9	(0.1)	1.2	(0.0)	2.2	(0.1)	2.4	(0.1)	3.2	(0.1)	3.6	(0.1)	1.4	(0.2)
Korea	2.8	(0.0)	1.2	(0.1)	2.4	(0.1)	2.9	(0.1)	2.9	(0.1)	3.2	(0.1)	0.8	(0.1)
Latvia	4.3	(0.0)	1.9	(0.1)	4.1	(0.1)	4.2	(0.1)	4.5	(0.1)	4.4	(0.1)	0.2	(0.1
Luxembourg	3.2	(0.0)	2.6	(0.1)	3.2	(0.1)	3.3	(0.1)	3.0	(0.0)	3.4	(0.0)	0.3	(0.1
Mexico	3.9	(0.1)	2.2	(0.1)	3.7	(0.1)	4.0	(0.1)	3.9	(0.1)	3.9	(0.1)	0.2	(0.2
Netherlands	4.4	(0.1)	3.4	(0.1)	3.9	(0.2)	4.2	(0.2)	4.6	(0.2)	4.8	(0.2)	0.9	(0.3
New Zealand	4.2	(0.0)	2.0	(0.1)	3.8	(0.1)	4.0	(0.1)	4.2	(0.1)	4.7	(0.1)	0.9	(0.2
Norway	2.4	(0.0)	1.1	(0.1)	2.4	(0.0)	2.3	(0.1)	2.4	(0.1)	2.4	(0.1)	0.0	(0.1
Poland	3.0	(0.0)	1.2	(0.1)	3.0	(0.1)	2.9	(0.1)	3.0	(0.1)	3.2	(0.1)	0.1	(0.2
Portugal	3.7	(0.1)	4.1	(0.1)	3.3	(0.2)	3.7	(0.2)	3.7	(0.2)	4.2	(0.2)	0.9	(0.3
Slovak Republic	3.1	(0.1)	2.6	(0.1)	2.5	(0.1)	2.4	(0.2)	2.8	(0.2)	4.5	(0.2)	1.9	(0.2
Slovenia	3.5	(0.0)	1.8	(0.0)	2.9	(0.1)	3.0	(0.1)	3.8	(0.1)	4.3	(0.0)	1.4	(0.1
Spain	3.3	(0.0)	2.1	(0.0)	3.1	(0.1)	3.0	(0.1)	3.3	(0.1)	3.6	(0.1)	0.6	(0.1
Sweden	3.0	(0.1)	1.3	(0.1)	2.9	(0.1)	3.1	(0.1)	2.9	(0.1)	3.2	(0.2)	0.3	(0.2
Switzerland	2.5	(0.1)	2.1	(0.1)	2.2	(0.1)	2.1	(0.1)	2.2	(0.1)	3.4	(0.1)	1.2	(0.2
Turkey	3.4	(0.1)	1.8	(0.0)	2.9	(0.1)	3.1	(0.2)	3.6	(0.1)	3.9	(0.1)	1.0	(0.2
United Kingdom	4.7	(0.0)	1.9	(0.1)	4.5	(0.1)	4.7	(0.1)	4.9	(0.1)	4.9	(0.1)	0.4	(0.1
United States	4.0	(0.1)	2.3	(0.1)	3.6	(0.1)	3.9	(0.1)	4.0	(0.1)	4.3	(0.1)	0.6	(0.2
OECD average	3.5	(0.0)	2.1	(0.0)	3.2	(0.0)	3.4	(0.0)	3.6	(0.0)	3.9	(0.0)	0.7	(0.0)
Albania	m	m	m	m	m	m	m	m	m	m	m	m	m	n
Algeria	m	m	m	m	m	m	m	m	m	m	m	m	m	n
Brazil	2.8	(0.1)	2.4	(0.1)	2.4	(0.1)	2.3	(0.1)	2.5	(0.1)	4.0	(0.2)	1.6	(0.2
B-S-J-G (China)	5.6	(0.1)	3.4	(0.1)	5.3	(0.2)	5.3	(0.3)	5.7	(0.3)	5.9	(0.2)	0.5	(0.3
Bulgaria	4.3	(0.1)	2.0	(0.1)	4.9	(0.1)	4.5	(0.1)	4.0	(0.1)	3.9	(0.1)	-1.0	(0.2
CABA (Argentina)	m	m	m	m	m	m	m	m	m	m	m	m	m	n
Colombia	3.4	(0.1)	2.3	(0.1)	3.5	(0.1)	3.2	(0.1)	3.3	(0.1)	3.8	(0.1)	0.3	(0.2
Costa Rica	3.8	(0.0)	1.8	(0.0)	3.4	(0.1)	3.5	(0.1)	3.7	(0.1)	4.5	(0.1)	1.0	(0.1
Croatia	3.2	(0.1)	2.0	(0.0)	2.3	(0.2)	2.9	(0.3)	3.0	(0.2)	4.5	(0.1)	2.2	(0.2
Cyprus*	3.1	(0.0)	2.2	(0.1)	2.6	(0.1)	2.8	(0.0)	2.8	(0.1)	4.2	(0.1)	1.6	(0.1
Dominican Republic	3.5	(0.1)	2.9	(0.2)	3.6	(0.2)	3.5	(0.2)	3.5	(0.2)	3.4	(0.1)	-0.3	(0.2
FYROM	m	m	m	m	m	m	m	m	m	m	m	m	m	n
Georgia Hong Kong (China)	m 2 g	m (0.1)	m 2.2	(0.1)	m 2.4	(O, 2)	2 Q	m (0.1)	m 2 Ω	m (0.2)	m 4.2	m (0.1)	m 1.0	(O. 2
Indonesia	3.8	(0.1)	3.2	(0.1)	3.4	(0.2)	3.8	(0.1)	3.8	(0.2)	4.3	(0.1)	1.0	(0.2
Jordan	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	n
Kosovo	m	m m	m m	m m	m	m m	m	m m	m	m m	m m	m m	m	n
Lebanon	m	m	m	m	m	m	m	m	m	m	m	m	m	n
Lithuania	4.3	(0.0)	0.5	(0.0)	4.3	(0.0)	4.3	(0.0)	4.3	(0.0)	4.4	(0.0)	0.1	(0.0)
Macao (China)	3.7	(0.0)	2.9	(0.0)	3.3	(0.0)	4.0	(0.0)	3.6	(0.0)	4.1	(0.0)	0.1	(0.0
Malta	m m	(0.0) m	2.9 m	(0.1) m	m	(0.1) m	m	(0.1) m	m	(0.1) m	m	(0.1) m	m	(0.1
	m	m	m	m	m	m	m	m	m	m	m	m	m	r
	1.7	(0.0)	1.2	(0.1)	1.6	(0.0)	1.7	(0.0)	1.6	(0.0)	1.7	(0.0)	0.0	(0.0)
Moldova		(0.1)	2.3	(0.1)	3.9	(0.1)	3.5	(0.1)	3.7	(0.2)	4.7	(0.2)	0.8	(0.2
	4.0		3.4	(0.1)	4.8	(0.1)	5.1	(0.1)	5.4	(0.1)	4.9	(0.1)	0.1	(0.
Moldova Montenegro						m	m	m	m	m	m	m	m	r
Moldova Montenegro Peru Qatar	4.0 5.1	(0.0)			m									(0.3
Moldova Montenegro Peru	4.0		m 3.5	m (0.1)	m 5.1	(0.2)	5.0	(0.1)	5.3	(0.1)	5.5	(0.2)	0.4	
Moldova Montenegro Peru Qatar Romania Russia	4.0 5.1 m	(0.0) m	m	m		(0.2)	5.0	(0.1)	5.3 5.6	(0.1)	5.5 6.2	(0.2)	0.4 1.3	
Moldova Montenegro Peru Qatar Romania Russia Singapore	4.0 5.1 m 5.2 5.5	(0.0) m (0.1) (0.0)	m 3.5 2.8	m (0.1) (0.1)	5.1 4.8	(0.2) (0.1)	5.2	(0.1)	5.6	(0.1)	6.2	(0.1)	1.3	(0.1
Moldova Montenegro Peru Qatar Romania Russia	4.0 5.1 m 5.2 5.5 3.0	(0.0) m (0.1) (0.0) (0.0)	m 3.5 2.8 1.9	m (0.1) (0.1) (0.0)	5.1 4.8 2.3	(0.2) (0.1) (0.1)	5.2 2.8	(0.1)	5.6 3.2	(0.1) (0.2)	6.2 3.8	(0.1) (0.2)	1.3 1.6	(0.2
Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand	4.0 5.1 m 5.2 5.5 3.0 4.4	(0.0) m (0.1) (0.0) (0.0) (0.1)	m 3.5 2.8 1.9 3.4	m (0.1) (0.1) (0.0) (0.1)	5.1 4.8 2.3 4.0	(0.2) (0.1) (0.1) (0.2)	5.2 2.8 4.1	(0.1) (0.1) (0.2)	5.6 3.2 4.2	(0.1) (0.2) (0.3)	6.2 3.8 5.1	(0.1) (0.2) (0.2)	1.3 1.6 1.1	(0.1 (0.2 (0.3
Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei	4.0 5.1 m 5.2 5.5 3.0 4.4 m	(0.0) m (0.1) (0.0) (0.0) (0.1) m	m 3.5 2.8 1.9 3.4 m	m (0.1) (0.1) (0.0) (0.1) m	5.1 4.8 2.3 4.0 m	(0.2) (0.1) (0.1) (0.2) m	5.2 2.8 4.1 m	(0.1) (0.1) (0.2) m	5.6 3.2 4.2 m	(0.1) (0.2) (0.3) m	6.2 3.8 5.1 m	(0.1) (0.2) (0.2) m	1.3 1.6 1.1 m	(0.1 (0.2 (0.3
Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	4.0 5.1 m 5.2 5.5 3.0 4.4 m 2.6	(0.0) m (0.1) (0.0) (0.0) (0.1) m (0.0)	m 3.5 2.8 1.9 3.4 m 1.9	m (0.1) (0.1) (0.0) (0.1) m (0.1)	5.1 4.8 2.3 4.0 m 2.4	(0.2) (0.1) (0.1) (0.2) m (0.1)	5.2 2.8 4.1 m 2.5	(0.1) (0.1) (0.2) m (0.1)	5.6 3.2 4.2 m 2.8	(0.1) (0.2) (0.3) m (0.1)	6.2 3.8 5.1 m 2.7	(0.1) (0.2) (0.2) m (0.1)	1.3 1.6 1.1 m 0.3	(0.1 (0.2 (0.3 r (0.1
Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	4.0 5.1 m 5.2 5.5 3.0 4.4 m 2.6 5.3	(0.0) m (0.1) (0.0) (0.0) (0.1) m (0.0) (0.1)	m 3.5 2.8 1.9 3.4 m 1.9 3.6	m (0.1) (0.1) (0.0) (0.1) m (0.1) (0.1)	5.1 4.8 2.3 4.0 m 2.4 4.8	(0.2) (0.1) (0.1) (0.2) m (0.1) (0.2)	5.2 2.8 4.1 m 2.5 5.1	(0.1) (0.1) (0.2) m (0.1) (0.1)	5.6 3.2 4.2 m 2.8 5.5	(0.1) (0.2) (0.3) m (0.1) (0.1)	6.2 3.8 5.1 m 2.7 5.7	(0.1) (0.2) (0.2) m (0.1) (0.2)	1.3 1.6 1.1 m 0.3 1.0	(0.1 (0.2 (0.3 r (0.1
Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	4.0 5.1 m 5.2 5.5 3.0 4.4 m 2.6 5.3 3.4	(0.0) m (0.1) (0.0) (0.0) (0.1) m (0.0) (0.1) (0.1)	m 3.5 2.8 1.9 3.4 m 1.9 3.6 2.8	m (0.1) (0.1) (0.0) (0.1) m (0.1) (0.1) (0.1) (0.1)	5.1 4.8 2.3 4.0 m 2.4 4.8 2.9	(0.2) (0.1) (0.1) (0.2) m (0.1) (0.2) (0.2)	5.2 2.8 4.1 m 2.5 5.1 3.0	(0.1) (0.1) (0.2) m (0.1) (0.1) (0.2)	5.6 3.2 4.2 m 2.8 5.5 3.5	(0.1) (0.2) (0.3) m (0.1) (0.1) (0.2)	6.2 3.8 5.1 m 2.7 5.7 4.0	(0.1) (0.2) (0.2) m (0.1) (0.2) (0.2)	1.3 1.6 1.1 m 0.3 1.0	(0.1 (0.2 (0.3 r (0.1 (0.2 (0.2
Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	4.0 5.1 m 5.2 5.5 3.0 4.4 m 2.6 5.3 3.4 m	(0.0) m (0.1) (0.0) (0.0) (0.1) m (0.0) (0.1) (0.1) m	m 3.5 2.8 1.9 3.4 m 1.9 3.6 2.8	m (0.1) (0.1) (0.0) (0.1) m (0.1) (0.1) (0.1) m	5.1 4.8 2.3 4.0 m 2.4 4.8 2.9 m	(0.2) (0.1) (0.1) (0.2) m (0.1) (0.2) (0.2) m	5.2 2.8 4.1 m 2.5 5.1 3.0 m	(0.1) (0.1) (0.2) m (0.1) (0.1) (0.2) m	5.6 3.2 4.2 m 2.8 5.5 3.5	(0.1) (0.2) (0.3) m (0.1) (0.1) (0.2) m	6.2 3.8 5.1 m 2.7 5.7 4.0 m	(0.1) (0.2) (0.2) m (0.1) (0.2) (0.2) m	1.3 1.6 1.1 m 0.3 1.0 1.1	(0.1 (0.2 (0.3 r (0.1 (0.2 (0.2
Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	4.0 5.1 m 5.2 5.5 3.0 4.4 m 2.6 5.3 3.4	(0.0) m (0.1) (0.0) (0.0) (0.1) m (0.0) (0.1) (0.1)	m 3.5 2.8 1.9 3.4 m 1.9 3.6 2.8	m (0.1) (0.1) (0.0) (0.1) m (0.1) (0.1) (0.1) (0.1)	5.1 4.8 2.3 4.0 m 2.4 4.8 2.9	(0.2) (0.1) (0.1) (0.2) m (0.1) (0.2) (0.2)	5.2 2.8 4.1 m 2.5 5.1 3.0	(0.1) (0.1) (0.2) m (0.1) (0.1) (0.2)	5.6 3.2 4.2 m 2.8 5.5 3.5	(0.1) (0.2) (0.3) m (0.1) (0.1) (0.2)	6.2 3.8 5.1 m 2.7 5.7 4.0	(0.1) (0.2) (0.2) m (0.1) (0.2) (0.2)	1.3 1.6 1.1 m 0.3 1.0	(0.1 (0.2 (0.3 n (0.1 (0.2 (0.2

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

** See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 2/3]

Table II.6.33 Average time per week in regular science lessons, science performance and school characteristics

				Avera	ige time pe	r week spo	ent learnin	g in regula	r science l	essons, in	hours			
				By schoo	l location						By type o	of school		
	Rural area (fewer 3 000 p	r than	Tov (3 00 100 000	00 to	Ci (ov 100 000	ér	City - ru	ıral area	Puk	olic	Priv	ate	Private	– public
	Hours	S.E.	Hours	S.E.	Hours	S.E.	Dif.	S.E.	Hours	S.E.	Hours	S.E.	Dif.	S.E.
Australia	3.6	(0.1)	3.5	(0.1)	3.5	(0.0)	-0.1	(0.1)	3.5	(0.0)	3.6	(0.0)	0.1	(0.1
Austria	5.3	(0.5)	4.9	(0.2)	4.8	(0.2)	-0.4	(0.5)	4.9	(0.1)	4.8	(0.3)	-0.1	(0.4
Belgium	3.3	(0.1)	3.0	(0.1)	2.8	(0.1)	-0.4	(0.2)	W	W	W	W	W	V
Canada	4.2	(0.2)	4.9	(0.1)	4.9	(0.1)	0.7	(0.2)	4.8	(0.1)	4.7	(0.2)	-0.2	(0.2
Chile	5.6	(0.7)	5.8	(0.2)	5.8	(0.1)	0.2	(0.8)	5.5	(0.2)	6.0	(0.1)	0.5	(0.2
Czech Republic	4.4	(0.1)	4.1	(0.1)	4.2	(0.1)	-0.1	(0.2)	4.1	(0.1)	3.8	(0.2)	-0.4	(0.2
Denmark Estonia	3.3	(0.1)	3.5 3.6	(0.1)	3.4 3.6	(0.1)	0.1 -0.3	(0.2)	3.4 3.6	(0.1)	3.6 3.7	(0.1)	0.2 0.1	(0.1
Finland	2.8	(0.1)	2.8	(0.1)	2.9	(0.0)	0.1	(0.1)	2.8	(0.0)	3.0	(0.1)	0.1	(0.3
France	3.3	(0.1)	2.9	(0.1)	3.2	(0.1)	-0.1	(0.2)	3.0	(0.0)	3.3	(0.1)	0.2	(0.1
Germany	4.1	(0.4)	3.7	(0.1)	3.9	(0.2)	-0.2	(0.4)	3.8	(0.1)	3.8	(0.3)	0.0	(0.3
Greece	3.8	(0.1)	3.7	(0.1)	4.1	(0.1)	0.3	(0.2)	3.8	(0.0)	4.4	(0.1)	0.6	(0.1
Hungary	3.9	(0.4)	3.2	(0.1)	2.9	(0.1)	-1.0	(0.4)	3.1	(0.1)	3.0	(0.2)	-0.1	(0.2
Iceland	2.3	(0.0)	2.3	(0.0)	2.3	(0.0)	0.0	(0.0)	2.3	(0.0)	С	С	С	(
Ireland	2.5	(0.1)	2.5	(0.0)	2.2	(0.1)	-0.2	(0.1)	2.4	(0.0)	2.4	(0.0)	0.0	(0.1
Israel	3.1	(0.3)	3.7	(0.1)	3.1	(0.1)	-0.1	(0.3)	m	m	m	m	m	n
Italy	3.0	(0.1)	2.6	(0.1)	2.6	(0.1)	-0.4	(0.2)	2.6	(0.1)	2.5	(0.3)	0.0	(0.3
Japan	С	С	2.7	(0.1)	3.0	(0.1)	С	С	2.7	(0.1)	3.3	(0.1)	0.6	(0.1
Korea	С	С	2.7	(0.1)	2.9	(0.0)	С	С	2.8	(0.1)	2.9	(0.1)	0.0	(0.1
Latvia	4.4	(0.1)	4.3	(0.1)	4.2	(0.1)	-0.2	(0.1)	4.3	(0.0)	4.1	(0.4)	-0.2	(0.4
Luxembourg	m	m	3.1	(0.0)	3.2	(0.0)	m	m	3.1	(0.0)	3.6	(0.1)	0.4	(0.1
Mexico	3.5	(0.2)	4.0	(0.1)	3.9	(0.1)	0.3	(0.2)	3.9	(0.1)	3.7	(0.1)	-0.2	(0.1
Netherlands	С	С	4.3	(0.1)	4.9	(0.2)	С	С	4.5	(0.2)	4.4	(0.1)	-0.1	(0.2
New Zealand	4.1	(0.3)	4.0	(0.1)	4.3	(0.1)	0.2	(0.3)	4.1	(0.0)	5.6	(0.5)	1.5	(0.5
Norway	2.3	(0.1)	2.4	(0.0)	2.4	(0.1)	0.0	(0.1)	2.4	(0.0)	2.2	(0.2)	-0.2	(0.2
Poland	3.0	(0.1)	3.0	(0.1)	3.1	(0.1)	0.2	(0.1)	3.0	(0.0)	3.5	(0.3)	0.5	(0.4
Portugal	4.6	(0.7)	3.8	(0.1)	3.6	(0.2)	-1.0	(0.7)	3.7	(0.1)	4.1	(0.9)	0.4	(0.9
Slovak Republic	3.4	(0.1)	2.9	(0.1)	3.5	(0.2)	0.1	(0.3)	3.1	(0.1)	3.2	(0.4)	0.1	(0.4
Slovenia	3.6	(0.1)	3.5	(0.0)	3.6	(0.1)	0.0	(0.1)	3.5	(0.0)	3.6	(0.1)	0.1	(0.1
Spain	3.3	(0.3)	3.1	(0.0)	3.5	(0.1)	0.2	(0.3)	3.1	(0.0)	3.6	(0.1)	0.4	(0.1
Sweden	2.8	(0.1)	3.0	(0.1)	3.1	(0.1)	0.3	(0.2)	3.1	(0.1)	2.7	(0.1)	-0.4	(0.1
Switzerland	2.1	(0.1)	2.5	(0.1)	2.5	(0.1)	0.5	(0.2)	2.5	(0.1)	2.2	(0.2)	-0.3	(0.2
Turkey	2.5	(0.4)	3.3	(0.1)	3.4	(0.1)	1.0	(0.4)	3.3	(0.1)	3.9	(0.2)	0.5	(0.2
United Kingdom	4.9	(0.3)	4.9	(0.1)	4.5	(0.1)	-0.4	(0.3)	4.8	(0.1)	4.8	(0.2)	0.1	(0.2
United States	3.9	(0.1)	4.1	(0.1)	3.8	(0.1)	-0.1	(0.2)	4.0	(0.1)	3.8	(0.1)	-0.1	(0.1
OECD average	3.6	(0.0)	3.5	(0.0)	3.5	(0.0)	0.0	(0.1)	3.5	(0.0)	3.7	(0.0)	0.1	(0.0
Albania	C	C C	C C	c c	C C	C C	C C	C C	C C	C C	C C	C C	C C	
Algeria Brazil	2.4	(0.1)	2.6	(0.1)	3.0	(0.1)	0.6	(0.2)	2.5	(0.0)	4.5	(0.2)	2.0	(0.2
B-S-J-G (China)	5.4	(0.1)	5.7	(0.1)	5.3	(0.1)	0.0	(0.4)	5.5	(0.0)	6.2	(0.2)	0.7	(0.4
Bulgaria	5.3	(0.3)	4.3	(0.1)	4.2	(0.1)	-1.1	(0.4)	4.3	(0.1)	C C	(0.3)	С.	(0
CABA (Argentina)	m	(0.5) m	7.5 C	(0.1) C	7.2 C	(0.1) C	m	(0.4) m	7.5 C	(0.1) C	С	C	С	
Colombia	3.6	(0.2)	3.3	(0.1)	3.6	(0.1)	0.0	(0.2)	3.4	(0.1)	3.7	(0.2)	0.3	(0.
Costa Rica	3.6	(0.1)	3.9	(0.0)	3.7	(0.1)	0.0	(0.2)	3.8	(0.0)	3.5	(0.1)	-0.3	(0.
Croatia	C	(O.1)	3.0	(0.1)	3.6	(0.1)	C	(O.2)	3.2	(0.1)	4.6	(0.1)	1.4	(0.
Cyprus*	3.0	(0.1)	3.0	(0.0)	3.4	(0.1)	0.4	(0.1)	2.9	(0.0)	4.3	(0.1)	1.5	(0.
Dominican Republic	3.3	(0.2)	3.5	(0.1)	3.7	(0.2)	0.3	(0.3)	3.5	(0.1)	3.5	(0.2)	0.0	(0.
FYROM	C	(O.2)	C	C	С.	C	C	(0.5) C	C	(O.1)	C	C C	C	(
Georgia	С	c	С	С	С	c	С	С	С	С	С	C	С	
Hong Kong (China)	m	m	m	m	3.8	(0.1)	m	m	3.9	(0.3)	3.8	(0.1)	-0.1	(0.
Indonesia	С	С	С	С	С	С	С	С	С	С	С	С	С	
Jordan	С	С	С	С	С	С	С	С	С	С	С	С	С	
Kosovo	С	С	С	С	С	С	С	С	С	С	С	С	С	
Lebanon	С	С	С	С	С	С	С	С	С	С	С	С	С	
Lithuania	4.3	(0.0)	4.3	(0.0)	4.3	(0.0)	0.0	(0.0)	4.3	(0.0)	4.5	(0.1)	0.2	(0.
Macao (China)	С	С	С	С	3.7	(0.0)	С	С	С	С	3.8	(0.0)	С	
Malta	С	C	С	С	m	m	m	m	С	С	С	C	С	
Moldova	С	C	C 1.7	C (O, O)	C	C (0, 0)	С	С	C	C (O, O)	С	C	C	
Montenegro	C 4.0	(O 1)	1.7	(0.0)	1.6	(0.0)	C	(O 2)	1.7	(0.0)	C 4.6	(O 2)	C	//
Peru	4.0	(0.1)	3.9	(0.1)	4.2	(0.3)	0.2	(0.3)	3.6	(0.1)	4.6	(0.2)	1.0	(0.
Qatar	4.4	(0.1)	5.2	(0.0)	5.0	(0.0)	0.6	(0.1)	4.8	(0.0)	5.4	(0.1)	0.6	(0.
Romania	C 5.2	(0.2)	C E 1	(O 1)	C E 2	(O 1)	C 0.1	(0.2)	C F 2	(O 1)	С	C	С	
Durania	5.2	(0.2)	5.1	(0.1)	5.3	(0.1)	0.1	(0.2)	5.2	(0.1)	C	(O 2)	0.0	/0
Russia	m	m	3 O	m (0.1)	5.4	(0.0)	m	m	5.5 3.3	(0.0)	5.5 2.5	(0.3)	-0.0	(0.
Singapore	3.9	(O 2)	3.0 4.4	(0.1)	3.1 4.9	(0.1)	c 1.0	(0.4)	4.5	(0.0)	3.2	(0.1)	-0.8 -1.3	(0.
Singapore Chinese Taipei		(0.3) c						(0.4)		(0.1)				(U.
Singapore Chinese Taipei Thailand			С	С	m 2.7	m (0.1)	m 0.3	m (0.2)	2.6	(0.0)	3.1	(0.6)	0.5	(0.
Singapore Chinese Taipei Thailand Trinidad and Tobago	С		26	(0.1)			U.)	101.71					U.3	(U.
Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	2.3	(0.2)	2.6	(0.1)										(0
Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	2.3 4.8	(0.2) (0.2)	5.1	(0.2)	5.5	(0.1)	0.7	(0.2)	4.8	(0.1)	5.7	(0.1)	1.0	
Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	2.3 4.8 3.1	(0.2) (0.2) (0.3)	5.1 3.4	(0.2)	5.5 3.5	(0.1)	0.7 0.4	(0.2) (0.3)	4.8 3.2	(0.1) (0.1)	5.7 4.2	(0.1)	1.0 0.9	(0.
Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	2.3 4.8 3.1 c	(0.2) (0.2) (0.3)	5.1 3.4 c	(0.2) (0.1) C	5.5 3.5 c	(0.1) (0.1) C	0.7 0.4 c	(0.2) (0.3) C	4.8 3.2 c	(0.1) (0.1) c	5.7 4.2 c	(0.1) (0.2) c	1.0 0.9	
Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	2.3 4.8 3.1	(0.2) (0.2) (0.3)	5.1 3.4	(0.2)	5.5 3.5	(0.1)	0.7 0.4	(0.2) (0.3)	4.8 3.2	(0.1) (0.1)	5.7 4.2	(0.1)	1.0 0.9	

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS). Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

* Coverage is too small to ensure comparability (see Annex A4).

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** The socio-economic profile is measured by the profile is the profile in the profile is the profile in the profile is the profile is the profile in the profile in the profile in the profile is the profile in the profile in the profile in the profile is the profile in the p



[Part 3/3]

Table II.6.33 Average time per week in regular science lessons, science performance and school characteristics

					Aver	age time pe	er week sp					1			
				By educa	ion level				e account ools' socio				er accountii hools' socio		
		educ	econdary ation ED 2)	Upper se educa (ISCE	ation '	ISCED 3	- ISCED 2	Chan the scien per hour in the time spent le in reg science	ice score ncrease in per week earning gular	in stu	I variance udent mance ed x 100)	the scient per hour the time spent l in re	nge in nce score increase in per week learning egular e lessons	perfor	l variance udent mance ed x 100)
		Hours	S.E.	Hours	S.E.	Dif.	S.E.	Score dif.	S.E.	%	S.E.	Score dif.	S.E.	%	S.E.
2	Australia	3.6	(0.0)	2.9	(0.1)	-0.7	(0.1)	9	(0.8)	2.7	(0.4)	7	(0.7)	17.3	(1.1)
OECD	Austria	5.5	(0.4)	4.9	(0.1)	-0.7	(0.4)	2	(0.5)	0.6	(0.3)	1	(0.3)	30.5	(1.8)
	Belgium	2.4	(0.1)	3.0	(0.0)	0.6	(0.1)	15	(0.9)	12.4	(1.0)	9	(0.6)	38.4	(1.9)
١	Canada	4.4	(0.1)	4.9	(0.1)	0.5	(0.1)	3	(0.5)	1.0	(0.3)	2	(0.4)	12.0	(1.0)
	Chile	4.3	(0.3)	5.9	(0.1)	1.6	(0.3)	3	(0.5)	1.8	(0.5)	1	(0.4)	26.0	(1.6)
ì	Czech Republic Denmark	4.3 3.4	(0.1)	3.9 3.5	(0.1)	-0.3 0.0	(0.1)	11 2	(1.2)	8.2 0.1	(1.3)	6	(0.8)	33.7 11.5	(1.9)
	Estonia	3.7	(0.0)	3.0	(0.3)	-0.7	(0.3)	7	(0.9)	1.9	(0.1)	7	(0.9)	12.8	(1.3)
Ì	Finland	2.8	(0.0)	C C	(0.5)	С С	(0.5)	15	(1.6)	5.4	(0.9)	12	(1.4)	13.6	(1.3)
ı	France	2.2	(0.1)	3.3	(0.1)	1.1	(0.1)	17	(1.4)	12.6	(1.4)	8	(1.0)	38.0	(1.8)
	Germany	3.7	(0.1)	3.4	(0.4)	-0.3	(0.4)	16	(1.0)	14.6	(1.4)	8	(0.9)	34.5	(1.8)
	Greece '	3.0	(0.3)	3.9	(0.0)	0.9	(0.3)	7	(1.4)	3.1	(0.9)	4	(1.1)	23.8	(2.6)
	Hungary	4.2	(0.1)	3.0	(0.1)	-1.2	(0.1)	-2	(1.3)	0.2	(0.2)	-1	(0.8)	43.3	(2.0)
١	Iceland	2.3	(0.0)	m	m	m	m	1	(1.8)	0.0	(0.1)	1	(1.7)	5.3	(0.8)
	Ireland	2.5	(0.0)	2.2	(0.1)	-0.3	(0.1)	11	(1.5)	2.4	(0.6)	8	(1.3)	15.6	(1.3)
ì	Israel	3.4	(0.1)	3.4	(0.1)	0.0	(0.1)	6	(1.2)	2.4	(0.9)	6	(0.8)	25.3	(2.1)
	Italy Japan	2.1	(0.3)	2.6 2.9	(0.1)	0.5	(0.3) m	4 20	(1.0)	0.7 7.6	(0.3)	4 3	(1.0) (1.9)	23.6 27.6	(2.0)
ì	Korea	2.8	(0.0)	2.9	(0.0)	0.1	(0.1)	14	(3.5)	3.2	(1.0)	7	(2.0)	18.2	(2.0)
	Latvia	4.3	(0.0)	3.7	(0.3)	-0.6	(0.1)	8	(1.4)	3.4	(0.9)	7	(1.2)	15.3	(1.6)
١	Luxembourg	2.6	(0.0)	3.9	(0.1)	1.3	(0.1)	2	(0.5)	0.4	(0.2)	1	(0.4)	33.8	(1.0)
	Mexico	3.9	(0.1)	3.8	(0.1)	-0.1	(0.1)	0	(0.8)	0.0	(0.1)	0	(0.6)	16.4	(1.9)
	Netherlands	4.3	(0.1)	4.6	(0.1)	0.3	(0.2)	4	(0.8)	2.4	(0.8)	3	(0.6)	35.8	(3.2)
	New Zealand	3.5	(0.1)	4.2	(0.1)	0.7	(0.1)	12	(1.4)	6.2	(1.2)	9	(1.2)	20.9	(1.4)
	Norway	2.4	(0.0)	С	C	С	С	-5	(1.4)	0.4	(0.2)	-5	(1.3)	8.4	(1.0)
	Poland	3.0	(0.0)	С	C	С	C	9	(3.0)	1.4	(0.9)	6	(2.1)	16.5	(1.7)
	Portugal	2.8	(0.0)	4.2	(0.1)	1.4	(0.1)	8	(0.4)	11.7	(1.0)	6	(0.3)	27.8	(1.8)
	Slovak Republic	3.3	(0.1)	2.9	(0.1)	-0.5	(0.1)	10	(0.9)	8.1	(1.1)	6	(0.8)	29.3	(1.8)
	Slovenia Spain	3.7	(0.2)	3.5 c	(0.0) C	-0.2 C	(0.2) C	14 10	(1.1)	7.2 5.9	(0.9)	8	(0.8)	36.0 17.8	(1.2)
ì	Sweden	3.0	(0.0)	5.6	(1.1)	2.7	(1.1)	3	(2.8)	0.1	(0.3)	0	(1.9)	16.3	(1.7)
	Switzerland	2.4	(0.0)	2.9	(0.1)	0.5	(0.2)	4	(1.6)	0.7	(0.5)	-1	(1.0)	24.8	(1.9)
١	Turkey	2.8	(0.1)	3.4	(0.1)	0.6	(0.1)	14	(1.4)	9.9	(1.7)	10	(1.1)	30.9	(3.9)
ı	United Kingdom	3.5	(0.2)	4.7	(0.0)	1.2	(0.2)	9	(1.0)	3.3	(0.7)	7	(0.9)	19.2	(1.5)
	United States	3.2	(0.1)	4.0	(0.1)	0.9	(0.1)	9	(0.9)	4.3	(0.8)	7	(0.8)	16.1	(1.5)
Ì	OECD average	3.3	(0.0)	3.7	(0.0)	0.3	(0.1)	8	(0.2)	4.2	(0.1)	5	(0.2)	23.3	(0.3)
	Albania	С	С	С	С	С	С	m	m	m	m	m	m	m	m
	Algeria	c			c	c	_								m
			C				C	m	m	m	m	ı m	m	m	
	Brazil	2.6		2.9		0.2	(0.1)	m 11	m (0.8)	m 8.2	m (1.3)	m 5	m (0.5)	m 24.6	
			(0.1)		(0.1)		(0.1)		(0.8)	8.2 3.1	(1.3)	5 4	(0.5)	24.6	(2.1)
	B-S-J-G (China) Bulgaria	2.6		2.9		0.2		11		8.2		5			
	B-S-J-G (China) Bulgaria CABA (Argentina)	2.6 6.1 4.3	(0.1) (0.1) (0.5)	2.9 4.7 4.3 c	(0.1) (0.2) (0.1)	0.2 -1.4 0.0	(0.1) (0.3) (0.4)	11 5 -9 m	(0.8) (0.7) (1.4) m	8.2 3.1 3.3 m	(1.3) (0.8) (0.9) m	5 4 -4 m	(0.5) (0.6) (0.7) m	24.6 36.3 37.4 m	(2.1) (2.8) (2.7) m
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia	2.6 6.1 4.3 c 3.3	(0.1) (0.1) (0.5) c (0.1)	2.9 4.7 4.3 c 3.6	(0.1) (0.2) (0.1) c (0.1)	0.2 -1.4 0.0 c 0.3	(0.1) (0.3) (0.4) C (0.1)	11 5 -9 m 6	(0.8) (0.7) (1.4) m (0.8)	8.2 3.1 3.3 m 3.6	(1.3) (0.8) (0.9) m (0.9)	5 4 -4 m 5	(0.5) (0.6) (0.7) m (0.5)	24.6 36.3 37.4 m 22.9	(2.1) (2.8) (2.7) m (2.4)
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica	2.6 6.1 4.3 c 3.3 3.1	(0.1) (0.1) (0.5) c (0.1) (0.0)	2.9 4.7 4.3 c 3.6 4.5	(0.1) (0.2) (0.1) c (0.1) (0.1)	0.2 -1.4 0.0 c 0.3 1.4	(0.1) (0.3) (0.4) C (0.1) (0.1)	11 5 -9 m 6	(0.8) (0.7) (1.4) m (0.8) (0.8)	8.2 3.1 3.3 m 3.6 5.9	(1.3) (0.8) (0.9) m (0.9) (1.0)	5 4 -4 m 5	(0.5) (0.6) (0.7) m (0.5) (0.7)	24.6 36.3 37.4 m 22.9 23.6	(2.1) (2.8) (2.7) m (2.4) (1.9)
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia	2.6 6.1 4.3 c 3.3 3.1	(0.1) (0.1) (0.5) C (0.1) (0.0)	2.9 4.7 4.3 c 3.6 4.5 3.2	(0.1) (0.2) (0.1) c (0.1) (0.1) (0.1)	0.2 -1.4 0.0 c 0.3 1.4	(0.1) (0.3) (0.4) C (0.1) (0.1)	11 5 -9 m 6 10	(0.8) (0.7) (1.4) m (0.8) (0.8) (1.1)	8.2 3.1 3.3 m 3.6 5.9 15.8	(1.3) (0.8) (0.9) m (0.9) (1.0) (1.7)	5 4 -4 m 5 5	(0.5) (0.6) (0.7) m (0.5) (0.7) (1.1)	24.6 36.3 37.4 m 22.9 23.6 29.5	(2.1) (2.8) (2.7) m (2.4) (1.9) (2.0)
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus*	2.6 6.1 4.3 c 3.3 3.1 c	(0.1) (0.1) (0.5) c (0.1) (0.0) c (0.1)	2.9 4.7 4.3 c 3.6 4.5 3.2 3.1	(0.1) (0.2) (0.1) c (0.1) (0.1) (0.1) (0.0)	0.2 -1.4 0.0 c 0.3 1.4 c	(0.1) (0.3) (0.4) c (0.1) (0.1) c (0.1)	11 5 -9 m 6 10 17	(0.8) (0.7) (1.4) m (0.8) (0.8) (1.1) (1.1)	8.2 3.1 3.3 m 3.6 5.9 15.8 3.6	(1.3) (0.8) (0.9) m (0.9) (1.0) (1.7) (0.8)	5 4 -4 m 5 5 10	(0.5) (0.6) (0.7) m (0.5) (0.7) (1.1) (0.9)	24.6 36.3 37.4 m 22.9 23.6 29.5 16.7	(2.1) (2.8) (2.7) m (2.4) (1.9) (2.0) (1.0)
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic	2.6 6.1 4.3 c 3.3 3.1 c 2.9 3.3	(0.1) (0.5) c (0.1) (0.0) c (0.1) (0.2)	2.9 4.7 4.3 c 3.6 4.5 3.2 3.1 3.6	(0.1) (0.2) (0.1) c (0.1) (0.1) (0.1) (0.0) (0.1)	0.2 -1.4 0.0 c 0.3 1.4 c 0.3 0.3	(0.1) (0.3) (0.4) c (0.1) (0.1) c (0.1) (0.2)	11 5 -9 m 6 10 17 8	(0.8) (0.7) (1.4) m (0.8) (0.8) (1.1) (1.1) (0.5)	8.2 3.1 3.3 m 3.6 5.9 15.8 3.6 0.0	(1.3) (0.8) (0.9) m (0.9) (1.0) (1.7) (0.8) (0.1)	5 4 -4 m 5 5 10 3	(0.5) (0.6) (0.7) m (0.5) (0.7) (1.1) (0.9) (0.4)	24.6 36.3 37.4 m 22.9 23.6 29.5 16.7 25.0	(2.1) (2.8) (2.7) m (2.4) (1.9) (2.0) (1.0) (3.0)
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM	2.6 6.1 4.3 c 3.3 3.1 c 2.9 3.3	(0.1) (0.1) (0.5) c (0.1) (0.0) c (0.1) (0.2)	2.9 4.7 4.3 c 3.6 4.5 3.2 3.1 3.6 c	(0.1) (0.2) (0.1) c (0.1) (0.1) (0.1) (0.0) (0.1) c	0.2 -1.4 0.0 c 0.3 1.4 c 0.3 0.3	(0.1) (0.3) (0.4) c (0.1) (0.1) c (0.1) (0.2)	11 5 -9 m 6 10 17 8 0	(0.8) (0.7) (1.4) m (0.8) (0.8) (1.1) (1.1) (0.5) m	8.2 3.1 3.3 m 3.6 5.9 15.8 3.6 0.0 m	(1.3) (0.8) (0.9) m (0.9) (1.0) (1.7) (0.8) (0.1) m	5 4 -4 m 5 5 10	(0.5) (0.6) (0.7) m (0.5) (0.7) (1.1) (0.9) (0.4) m	24.6 36.3 37.4 m 22.9 23.6 29.5 16.7 25.0 m	(2.1) (2.8) (2.7) m (2.4) (1.9) (2.0) (1.0) (3.0) m
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia	2.6 6.1 4.3 c 3.3 3.1 c 2.9 3.3	(0.1) (0.5) c (0.1) (0.0) c (0.1) (0.2)	2.9 4.7 4.3 c 3.6 4.5 3.2 3.1 3.6	(0.1) (0.2) (0.1) c (0.1) (0.1) (0.1) (0.0) (0.1)	0.2 -1.4 0.0 c 0.3 1.4 c 0.3 0.3	(0.1) (0.3) (0.4) c (0.1) (0.1) c (0.1) (0.2)	11 5 -9 m 6 10 17 8	(0.8) (0.7) (1.4) m (0.8) (0.8) (1.1) (1.1) (0.5)	8.2 3.1 3.3 m 3.6 5.9 15.8 3.6 0.0	(1.3) (0.8) (0.9) m (0.9) (1.0) (1.7) (0.8) (0.1)	5 4 -4 m 5 5 10 3 0	(0.5) (0.6) (0.7) m (0.5) (0.7) (1.1) (0.9) (0.4)	24.6 36.3 37.4 m 22.9 23.6 29.5 16.7 25.0	(2.1) (2.8) (2.7) m (2.4) (1.9) (2.0) (1.0) (3.0)
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM	2.6 6.1 4.3 c 3.3 3.1 c 2.9 3.3 c	(0.1) (0.1) (0.5) c (0.1) (0.0) c (0.1) (0.2) c	2.9 4.7 4.3 c 3.6 4.5 3.2 3.1 3.6 c	(0.1) (0.2) (0.1) c (0.1) (0.1) (0.1) (0.0) (0.1) c	0.2 -1.4 0.0 c 0.3 1.4 c 0.3 0.3 c	(0.1) (0.3) (0.4) c (0.1) (0.1) c (0.1) (0.2) c	11 5 -9 m 6 10 17 8 0 m	(0.8) (0.7) (1.4) m (0.8) (0.8) (1.1) (1.1) (0.5) m	8.2 3.1 3.3 m 3.6 5.9 15.8 3.6 0.0 m	(1.3) (0.8) (0.9) m (0.9) (1.0) (1.7) (0.8) (0.1) m	5 4 -4 m 5 5 10 3 0 m	(0.5) (0.6) (0.7) m (0.5) (0.7) (1.1) (0.9) (0.4) m	24.6 36.3 37.4 m 22.9 23.6 29.5 16.7 25.0 m	(2.1) (2.8) (2.7) m (2.4) (1.9) (2.0) (1.0) (3.0) m
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan	2.6 6.1 4.3 c 3.3 3.1 c 2.9 3.3 c	(0.1) (0.1) (0.5) c (0.1) (0.0) c (0.1) (0.2) c c (0.1)	2.9 4.7 4.3 c 3.6 4.5 3.2 3.1 3.6 c	(0.1) (0.2) (0.1) c (0.1) (0.1) (0.1) (0.0) (0.1) c c (0.1)	0.2 -1.4 0.0 c 0.3 1.4 c 0.3 0.3 c	(0.1) (0.3) (0.4) c (0.1) (0.1) c (0.1) (0.2) c c (0.1)	11 5 -9 m 6 10 17 8 0 m m	(0.8) (0.7) (1.4) m (0.8) (0.8) (1.1) (1.1) (0.5) m m (0.6)	8.2 3.1 3.3 m 3.6 5.9 15.8 3.6 0.0 m m 3.9	(1.3) (0.8) (0.9) m (0.9) (1.0) (1.7) (0.8) (0.1) m m (0.8)	5 4 -4 m 5 5 10 3 0 m m	(0.5) (0.6) (0.7) m (0.5) (0.7) (1.1) (0.9) (0.4) m m (0.5)	24.6 36.3 37.4 m 22.9 23.6 29.5 16.7 25.0 m m 15.5	(2.1) (2.8) (2.7) m (2.4) (1.9) (2.0) (1.0) (3.0) m m (1.9)
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo	2.6 6.1 4.3 c 3.3 3.1 c 2.9 3.3 c c 3.9 c c c c c	(0.1) (0.1) (0.5) c (0.1) (0.0) c (0.1) (0.2) c c (0.1) c	2.9 4.7 4.3 c 3.6 4.5 3.2 3.1 3.6 c c 3.8 c	(0.1) (0.2) (0.1) C (0.1) (0.1) (0.1) (0.0) (0.1) C C C (0.1) C C C C C C C C C C C C C C C C C C C	0.2 -1.4 0.0 c 0.3 1.4 c 0.3 0.3 c c -0.1 c	(0.1) (0.3) (0.4) c (0.1) (0.1) c (0.1) (0.2) c c (0.1) c	11 5 -9 m 6 10 17 8 0 m m 5 m	(0.8) (0.7) (1.4) m (0.8) (0.8) (1.1) (1.1) (0.5) m m (0.6) m	8.2 3.1 3.3 m 3.6 5.9 15.8 3.6 0.0 m m 3.9 m	(1.3) (0.8) (0.9) m (0.9) (1.0) (1.7) (0.8) (0.1) m m (0.8) m	5 4 -4 m 5 5 10 3 0 m m 4 m	(0.5) (0.6) (0.7) m (0.5) (0.7) (1.1) (0.9) (0.4) m m (0.5) m	24.6 36.3 37.4 m 22.9 23.6 29.5 16.7 25.0 m m 15.5 m	(2.1) (2.8) (2.7) m (2.4) (1.9) (2.0) (1.0) (3.0) m m (1.9) m m
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon	2.6 6.1 4.3 c 3.3 3.1 c 2.9 3.3 c c 3.9 c c c c c	(0.1) (0.1) (0.5)	2.9 4.7 4.3 c 3.6 4.5 3.2 3.1 3.6 c c 3.8 c	(0.1) (0.2) (0.1) C (0.1) (0.1) (0.1) (0.0) C C C C C C C C C C C	0.2 -1.4 0.0 c 0.3 1.4 c 0.3 0.3 c c -0.1 c	(0.1) (0.3) (0.4) c (0.1) (0.1) c (0.1) (0.2) c c (0.1) c c c c c c c	11 5 -9 m 6 10 17 8 0 m m 5 m m	(0.8) (0.7) (1.4) m (0.8) (0.8) (1.1) (1.1) (0.5) m m (0.6) m m	8.2 3.1 3.3 m 3.6 5.9 15.8 3.6 0.0 m m 3.9 m m	(1.3) (0.8) (0.9) m (0.9) (1.0) (1.7) (0.8) (0.1) m (0.8) m m	5 4 -4 m 5 5 10 3 0 m m 4 m m 4 m m m 7 5 10 10 10 10 10 10 10 10 10 10 10 10 10	(0.5) (0.6) (0.7) m (0.5) (0.7) (1.1) (0.9) (0.4) m m (0.5) m m	24.6 36.3 37.4 m 22.9 23.6 29.5 16.7 25.0 m m 15.5 m m	(2.1) (2.8) (2.7) m (2.4) (1.9) (2.0) (1.0) (3.0) m m (1.9) m m
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania	2.6 6.1 4.3 c 3.3 3.1 c 2.9 3.3 c c 3.9 c c 4.3	(0.1) (0.1) (0.1) (0.5)	2.9 4.7 4.3 c 3.6 4.5 3.2 3.1 3.6 c c 3.8 c	(0.1) (0.2) (0.1) C (0.1) (0.1) (0.1) (0.1) (0.0) (0.1) C C C C C C C	0.2 -1.4 0.0 c 0.3 1.4 c 0.3 0.3 c c -0.1 c	(0.1) (0.3) (0.4) c (0.1) (0.1) c (0.1) (0.2) c c (0.1) c c c c c c c c c c c c c c c	11 5 -9 m 6 10 17 8 0 m m m m m m m m 6	(0.8) (0.7) (1.4) m (0.8) (0.8) (1.1) (1.1) (0.5) m m (0.6) m m (0.6) m (0.7)	8.2 3.1 3.3 m 3.6 5.9 15.8 3.6 0.0 m m 3.9 m a m 3.6 5.9	(1.3) (0.8) (0.9) m (0.9) (1.0) (1.7) (0.8) (0.1) m m (0.8) m (0.8)	5 4 -4 m 5 5 5 10 3 0 m m m m m m m m m m m m m m m m m	(0.5) (0.6) (0.7) m (0.5) (0.7) (1.1) (0.9) (0.4) m m (0.5) m m (0.5)	24.6 36.3 37.4 m 22.9 23.6 29.5 16.7 25.0 m m 15.5 m m	(2.1) (2.8) (2.7) m (2.4) (1.9) (2.0) (1.0) (3.0) m (1.9) m m (2.3)
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China)	2.6 6.1 4.3 c 3.3 3.1 c 2.9 3.3 c c 3.9 c c	(0.1) (0.1) (0.5) c (0.1) (0.0) c (0.1) (0.0) c (0.1) (0.2) c c c c (0.1) c c c (0.0)	2.9 4.7 4.3 c 3.6 4.5 3.2 3.1 3.6 c c 3.8 c c 3.8 c	(0.1) (0.2) (0.1) c (0.1) (0.1) (0.1) (0.0) c c c (0.1) c c c (0.1)	0.2 -1.4 0.0 c 0.3 1.4 -0.3 0.3 c c -0.1 c	(0.1) (0.3) (0.4) c (0.1) (0.1) (0.1) c (0.1) c (0.1) c (0.1) c c c c c (0.1) c c m c c c c (0.1)	11 5-9 m 6 10 17 8 0 m m 5 m m 6	(0.8) (0.7) (1.4) m (0.8) (0.8) (0.1.1) (1.1) (1.1) (0.5) m (0.6) m m (4.7) (0.6)	8.2 3.1 3.3 m 3.6 5.9 15.8 3.6 0.0 m m 3.9 m m m 0.1	(1.3) (0.8) (0.9) (1.0) (1.7) (0.8) (0.1) m (0.8) m m (0.8) m m (0.2)	5 4 -4 m 5 5 5 10 3 0 m m m 4 m m	(0.5) (0.6) (0.7) m (0.5) (0.7) (1.1) (0.9) (0.4) m m (0.5) m m m (3.6) (0.6)	24.6 36.3 37.4 m 22.9 23.6 29.5 16.7 25.0 m 15.5 m m 21.2	(2.1) (2.8) (2.7) m (2.4) (1.9) (2.0) (3.0) m m (1.9) m (2.9) (3.0) m (1.0)
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta	2.6 6.1 4.3 c 3.3 3.1 c 2.9 3.3 c c c 3.9 c c c 3.9 c c c c c c c c c c c c c c c c c c c	(0.1) (0.1) (0.1) (0.5) c (0.1) (0.0) c (0.1) (0.2) c c (0.1) c c c (0.1) c c (0.0) c	2.9 4.7 4.3 c 3.6 4.5 3.2 3.1 3.6 c c c 3.8 c c c c c c c c c c c c c c c c c c c	(0.1) (0.2) (0.1)	0.2 -1.4 0.0 c 0.3 1.4 c 0.3 0.3 c c c -0.1 c	(0.1) (0.3) (0.4) c (0.1) (0.1) (0.1) (0.1) c (0.1) (0.2) c (0.1) c c (0.1) c (0.1) c m c c (0.1) c c	11 5-9 m 6 10 17 8 0 0 m m 5 5 5 m m m 6 8 0 m m 6 8 0 m m 6 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(0.8) (0.7) (1.4) m (0.8) (0.8) (0.1) (1.1) (0.5) m m (0.6) m m (4.7) (0.6) m	8.2 3.1 3.3 m 3.6 5.9 15.8 3.6 0.0 m m 3.9 m m m m 0.1 9.1	(1.3) (0.8) (0.9) m (0.9) (1.0) (1.7) (0.8) (0.1) m m (0.8) m m (0.8) m (0.2) (0.9)	5 4 -4 m 5 5 5 10 3 0 m m 4 m m m m -1 8 m	(0.5) (0.6) (0.7) m (0.5) (0.7) (1.1) (0.9) (0.4) m m (0.5) m m m (3.6) (0.6)	24.6 36.3 37.4 m 22.9 23.6 29.5 16.7 25.0 m m 15.5 m m m 21.2 10.3 m	(2.1) (2.8) (2.7) m (2.4) (1.9) (2.0) (1.0) (3.0) m m (1.9) m m (2.3) (1.0) m m
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova	2.6 6.1 4.3 c 3.3 3.1 c 2.9 3.3 c c c 3.9 c c 4.3 3.3 c c 4.3 5.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6	(0.1) (0.1) (0.1) (0.5) c (0.1) (0.0) c (0.1) (0.0) c (0.1) (0.2) c c c c (0.1) c c c c c c c c c c c c c c c c c c c	2.9 4.7 4.3 c 3.6 4.5 3.2 3.1 3.6 c c c 3.8 c c c 4.5 c c c c c c c c c c c c c c c c c c c	(0.1) (0.2) (0.1) c (0.1) (0.1) (0.1) (0.1) c c (0.1) c c c (0.1) c c c (0.1) c c c c c c c c c c c c c	0.2 -1.4 0.0 c 0.3 1.4 c 0.3 0.3 c c -0.1 c m c c 0.9 c c c c c c c c c c c c c c c c c c c	(0.1) (0.3) (0.4) c (0.1) (0.1) c (0.1) (0.2) c c (0.1) c c (0.1) c	11 5-9 m 6 10 17 8 0 0 m m 5 5 m m m 6 8 0 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(0.8) (0.7) (1.4) m (0.8) (0.8) (0.8) (1.1) (1.1) (0.5) m m (0.6) m m (4.7) (0.6) m m m m m m m m m m m m m m m m m m m	8.2 3.1 3.3 m 3.6 5.9 15.8 3.6 0.0 m m 3.9 m m m 0.1 9.1	(1.3) (0.8) (0.9) (1.0) (1.7) (0.8) (0.1) m m (0.8) m m (0.2) (0.9) m	5 4 -4 m 5 5 5 10 3 0 m m m 4 m m	(0.5) (0.6) (0.7) (0.7) (0.7) (1.1) (0.9) (0.4) m m (0.5) m m (3.6) (0.6) m	24.6 36.3 37.4 m 22.9 23.6 29.5 16.7 25.0 m m 15.5 m m m 21.2 10.3 m	(2.1) (2.8) (2.7) m (2.4) (1.9) (2.0) (1.0) (3.0) m (1.9) m m (1.9) m m m m m m m m m m m m m m m m m m m
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta	2.6 6.1 4.3 c 3.3 3.1 c 2.9 3.3 c c c 3.9 c c c 3.9 c c c c c c c c c c c c c c c c c c c	(0.1) (0.1) (0.1) (0.5) c (0.1) (0.0) c (0.1) (0.2) c c (0.1) c c c (0.1) c c (0.0) c	2.9 4.7 4.3 c 3.6 4.5 3.2 3.1 3.6 c c c 3.8 c c c c c c c c c c c c c c c c c c c	(0.1) (0.2) (0.1)	0.2 -1.4 0.0 c 0.3 1.4 c 0.3 0.3 c c c -0.1 c	(0.1) (0.3) (0.4) c (0.1) (0.1) (0.1) (0.1) c (0.1) (0.2) c (0.1) c c (0.1) c (0.1) c m c c (0.1) c c	11 5-9 m 6 10 17 8 0 0 m m 5 5 5 m m m 6 8 0 m m 6 8 0 m m 6 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(0.8) (0.7) (1.4) m (0.8) (0.8) (0.1) (1.1) (0.5) m m (0.6) m m (4.7) (0.6) m	8.2 3.1 3.3 m 3.6 5.9 15.8 3.6 0.0 m m 3.9 m m m m 0.1 9.1	(1.3) (0.8) (0.9) m (0.9) (1.0) (1.7) (0.8) (0.1) m m (0.8) m m (0.8) m (0.2) (0.9)	5 4 -4 m 5 5 10 3 0 m m m 4 4 m m m m m m m m m m m m m m	(0.5) (0.6) (0.7) m (0.5) (0.7) (1.1) (0.9) (0.4) m m (0.5) m m m (3.6) (0.6)	24.6 36.3 37.4 m 22.9 23.6 29.5 16.7 25.0 m m 15.5 m m m 21.2 10.3 m	(2.1) (2.8) (2.7) m (2.4) (1.9) (2.0) (1.0) (3.0) m m (1.9) m m (2.3) (1.0)
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar	2.6 6.1 4.3 c 3.3 3.1 c 2.9 3.3 c c c c d 3.9 c c c c c c c c c t 4.3 3.2 c c c c 1.9	(0.1) (0.1) (0.5) c (0.1) (0.0) c (0.1) (0.0) c c (0.1) (0.2) c c c c c (0.1) c c c c c c c (0.0) c c c c c c (0.0)	2.9 4.7 4.3 c 3.6 4.5 3.2 3.1 3.6 c c c 3.8 c m c 4.2 c	(0.1) (0.2) (0.1) c (0.1) (0.1) (0.1) (0.0) (0.1) c c c (0.1) c c (0.1) c	0.2 -1.4 0.0 c 0.3 1.4 c 0.3 c c -0.1 c m c	(0.1) (0.3) (0.4) c (0.1) (0.1) c (0.1) (0.2) c c c c (0.1) c c c c c c c (0.1)	11 5-9 m 6 10 17 8 0 m m m m m m 6 6 8 0 m m m m m m m m m m m m m m m m m m	(0.8) (0.7) (1.4) m (0.8) (0.8) (1.1) (0.5) m m (0.6) m m (0.6) m m (0.6) m m (0.6) m m (0.6) m m (0.6) m (0.6)	8.2 3.1 3.3 m 3.6 5.9 15.8 3.6 0.0 m m m m m 0.1 9.1 m	(1.3) (0.8) (0.9) m (0.9) (1.0) (1.7) (0.8) (0.1) m m (0.8) m m m (0.2) (0.9) (0.9) m (0.9)	5 4 -4 mm 5 5 10 3 0 mm mm 4 4 mm	(0.5) (0.6) (0.7) (0.7) (0.7) (0.7) (1.1) (0.9) (0.4) m m (0.5) m m m (3.6) (0.6) m m	24.6 36.3 37.4 m 22.9 23.6 29.5 16.7 25.0 m m 15.5 m m 21.2 10.3 m m	(2.1) (2.8) (2.7) m (2.4) (1.9) (2.0) (1.0) (3.0) m m (1.9) m m (2.3) (1.0) m m (0.9)
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania	2.6 6.1 4.3 c 3.3 3.1 c 2.9 3.3 c c c c d 3.3 c c c c c c c d 3.3 c c c d 4.3 3.2 c c c d 4.3 3.2 c c c d 4.3 3.2 c c c d 4.3 6.2 c d 6.3 6.2 d 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3	(0.1) (0.1) (0.5) c (0.1) (0.0) c (0.1) (0.0) c c (0.1) c c c c c c c (0.1) c c c c c c c (0.0) (0.0) (0.0) c c c c c c c (0.1)	2.9 4.7 4.3 c 3.6 4.5 3.2 3.1 3.6 c c c 3.8 c m c 4.2 c 4.7 4.0 5.1 m	(0.1) (0.2) (0.1) (0.1) (0.1) (0.1) (0.1) (0.0) (0.1) (0.0) (0.1) c c c c c c c c c (0.0) (0.1) (0.1) (0.0)	0.2 -1.4 0.0 0.0 c 0.3 1.4 c 0.3 c -0.1 c m c c 0.9 c c c c c c c c c c c c c c c c c c c	(0.1) (0.3) (0.4) c (0.1) (0.1) (0.1) (0.2) c c (0.1) c c (0.1) c c c (0.1) (0.2) c c c (0.1) (0.1) (0.1) (0.1)	11 5-9 m 6 10 17 8 0 m m m m 6 8 m m m 6 8 8 8 9 10 10 10 10 10 10 10 10 10 10	(0.8) (0.7) (1.4) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.1.1) (1.1) (0.5) m m (0.6) m m m (4.7) (0.6) m m (1.2) (0.9) (0.9) (0.9)	8.2 3.1 3.3 m 3.6 5.9 15.8 3.6 0.0 m m m m 0.1 1.1 2.7 m	(1.3) (0.8) (0.9) (1.0) (1.7) (0.8) (0.1) m m (0.8) m m m (0.2) (0.9) (0.9) m m (0.1) (0.6) (0.4)	5 4 m 5 5 10 3 0 m m m m m m m m m m m m m m m m m	(0.5) (0.6) (0.7) (0.7) (0.7) (1.1) (0.9) (0.4) m m (0.5) m m (0.6) (0.6) (0.6) (0.6) (0.6)	24.6 36.3 37.4 m 22.9 23.6 29.5 16.7 25.0 m m 15.5 m m 21.2 10.3 m m 16.4 28.2	(2.1) (2.8) (2.7) m (2.4) (1.9) (2.0) (1.0) (3.0) m m (1.9) m m (2.3) (1.0) m m (0.9) (2.2) (0.7) m
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia	2.6 6.1 4.3 c 3.3 3.1 c 2.9 3.3 c c 3.9 c c c 3.9 c c c 1.9 3.7 4.9 c c 5.2	(0.1) (0.1) (0.5) c (0.1) (0.0) c (0.1) (0.0) c (0.1) (0.2) c c c c (0.1) c c c c c c (0.0) (0.0) (0.0) (0.1) (0.1) (0.1)	2.9 4.7 4.3 c 3.6 4.5 3.2 3.1 3.6 c c 3.8 c c 4.2 c c 4.2 c	(0.1) (0.2) (0.1) (0.1) (0.1) (0.1) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	0.2 -1.4 0.0 c 0.3 1.4 1.4 c 0.3 0.3 c c c -0.1 c m c c c 0.9 0.9 c c -0.1 c m -0.2 0.4 0.2	(0.1) (0.3) (0.4) c (0.1) (0.1) c (0.1) (0.2) c c (0.1) c c c c c (0.1) c c c c c (0.1) c c c c c c (0.1) c c c c c c (0.1) c c c c c c c (0.1) c c c c c c c c c c c c c c c c c c c	11 5-9 m 6 10 17 8 0 0 m m m m m m m m 6 8 8 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1	(0.8) (0.7) (1.4) m (0.8) (0.7) (1.1) (1.1) (0.5) m m (0.6) m m m (4.7) (0.6) m m (1.2) (0.9) (0.3) m (0.5)	8.2 3.1 3.3 m 3.6 5.9 15.8 3.6 0.0 m m m m m 0.1 9.1 m m m 1.1 2.7 m	(1.3) (0.8) (0.9) (1.0) (1.7) (0.8) (0.1) m m (0.8) m m m (0.2) (0.9) (0.1) m m m (0.8) (0.1) (0.1) m m m (0.2) (0.9)	5 4 4 m 5 5 10 3 0 m m 4 4 m m m m m m m m m 1 8 m m m 2 2 1 4 m m 2	(0.5) (0.6) (0.7) m (0.5) (0.7) (1.1) (0.9) (0.4) m m m (0.5) m m m (0.6) m m (0.6) (0.6) (0.6) (0.6) (0.3)	24.6 36.3 37.4 m 22.9 23.6 29.5 16.7 25.0 m m 15.5 m m 21.2 10.3 m m 16.4 28.2 16.4 m	(2.1) (2.8) (2.7) m (2.4) (1.9) (2.0) (1.0) (3.0) m m (1.9) m m (2.3) (1.0) m m (2.3) (1.0) (2.0) (1.0)
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore	2.6 6.1 4.3 c 3.3 3.1 c 2.9 3.3 c c 3.9 c c c 1.9 3.2 c 4.3 3.2 c c 5.2 3.6	(0.1) (0.1) (0.1) (0.5) c (0.1) (0.0) c (0.1) (0.2) c c c c c c c c c c c c c c c c c c c	2.9 4.7 4.3 c 3.6 d.5 3.2 3.1 3.6 c c 3.8 c m c c c c c c c c c c c c c	(0.1) (0.2) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.0) (0.1) (0.0) (0.0) (0.0) (0.1) (0.0) (0.0)	0.2 -1.4 0.0 0 0 0.3 1.4 0.0 0 0.3 0.3 0 0.6 0.1 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(0.1) (0.3) (0.4) c (0.1) c (0.1) c (0.1) c c (0.1) c c c c c (0.1) c m c c (0.1) c m (0.1) (0.1) c (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.2)	11 5-9 m 6 10 17 8 0 m m m m m m 6 8 8 m m m m m m m m m m m m m	(0.8) (0.7) (1.4) m (0.8) (0.8) (0.8) (0.8) (1.1) (0.5) m (0.6) m m (0.6) m m (1.2) (0.9) (0.9) (0.5) (0.6)	8.2 3.1 3.3 m 3.6 5.9 15.8 3.6 0.0 m m m m m m m m 0.1 9.1 m m 1.2.7 m 1.2.1 m	(1.3) (0.8) m (0.9) (1.0) (1.7) (0.8) m m (0.8) m m m (0.2) (0.9) m m (0.2) (0.9) m m (0.1) (0.1) m m m (0.9)	5 4 m 5 5 10 3 0 m m 4 m m m m m m m m m m m m m m m 2 1 4 m m 2 7	(0.5) (0.6) (0.7) (0.7) (0.7) (1.1) (0.9) (0.4) m m (0.5) m m m (3.6) (0.6) m m (0.6) m m (0.5) m m (0.5) m m m (0.5) m (0.7)	24.6 36.3 37.4 m 22.9 23.6 29.5 16.7 25.0 m m 15.5 m m m 21.2 10.3 m m 16.4 28.2 16.4 29.5	(2.1) (2.8) (2.7) (2.7) (1.9) (2.0) (1.0) m m (1.9) m m m (2.3) (1.0) m m (0.9) (2.2) (0.7) (0.7)
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei	2.6 6.1 4.3 c 3.3 3.1 c 2.9 3.3 c c c 3.9 3.2 c c c 4.3 3.2 c c 5.2 4.3 3.7 4.9 6 5.2 3.6 4.1	(0.1) (0.1) (0.5) c (0.1) (0.0) c (0.1) (0.0) c c (0.1) c c c c c c c (0.1) (0.0) c c c c c c (0.1) (0.1) (0.1) (0.1) (0.1) (0.1)	2.9 4.7 4.3 .c 3.6 4.5 3.2 3.1 3.6 .c .c .c .c .c .c .c .c .c .c	(0.1) (0.2) (0.1) (0.1) (0.1) (0.1) (0.1) (0.0) (0.1) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0)	0.2 -1.4 0.0 0.0 c 0.3 1.4 c 0.3 c -0.1 c m c c 0.9 c c 0.9 c c c d 0.9 c c c c c c c c c c c c c c c c c c c	(0.1) (0.3) (0.4) c (0.1) (0.1) (0.1) (0.2) c c (0.1) c c (0.1) c c c (0.1) (0.1) (0.1) (0.1) (0.1) (0.2) (0.2)	11 5-9 m 6 10 17 8 0 m m m m 6 8 m m m 6 8 8 m m m m m m m m m m m m m	(0.8) (0.7) (1.4) m (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) m (0.6) m m (0.6) m m m (4.7) (0.6) m m (1.2) (0.9) (0.9) (0.3) m (0.5) (0.5) (0.6)	8.2 3.1 3.3 m 3.6 5.9 15.8 3.6 0.0 m m m 3.9 m m m 0.1 1.1 2.7 m 1.0 8.0 9.8	(1.3) (0.8) (0.9) (1.0) (1.7) (0.8) (0.1) m m (0.8) m m m (0.2) (0.9) m (0.1) (0.6) (0.4) (0.7)	5 4 4 m 5 5 100 3 0 m m m 4 m m m m m m m m 2 1 1 4 m 2 7 8	(0.5) (0.6) (0.7) (0.7) (0.7) (1.1) (0.9) (0.4) m m (0.5) m m m (3.6) (0.6) m m (1.1) (0.6) (0.3) m (0.4) (0.4)	24.6 36.3 37.4 m 22.9 23.6 29.5 16.7 25.0 m m 15.5 m m 21.2 10.3 m m 16.4 28.2 16.4 28.2 16.4 28.2	(2.1) (2.8) (2.7) m (2.4) (1.9) (2.0) (1.0) (3.0) m m m (1.9) (2.3) (1.0) (1.0) (2.3) (1.0
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand	2.6 6.1 4.3 c 3.3 3.1 c 2.9 3.3 c c c 3.9 c c c c 1.9 3.7 4.9 c 5.2 3.6 4.1 3.2	(0.1) (0.1) (0.5) c (0.1) (0.0) c (0.1) (0.0) c c (0.1) c c c c c (0.1) c c c c c c (0.1) (0.0) (0.0) (0.0) (0.1) (0.1) (0.1) (0.2) (0.1)	2.9 4.7 4.3 c 3.6 4.5 3.2 3.1 3.6 c c 3.8 c c 4.2 c c 4.2 c 1.7 4.0 5.1 m 5.0 5.1 m 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	(0.1) (0.2) (0.1) (0.1) (0.1) (0.1) (0.1) (0.0) (0.1) c (0.0) c (0.0) (0.0) (0.1) (0.0) m (0.2) (0.0) (0.1) (0.0) (0.1)	0.2 -1.4 0.0 c 0.3 1.4 c 0.3 0.3 c c c -0.1 c m c c c c 0.9 c c c c d 0.9 c c c c c c c c c c c c c c c c c c c	(0.1) (0.3) (0.4) c (0.1) (0.1) c (0.1) (0.2) c c c (0.1) c c c c (0.1) c c c c (0.1) c c c c c c (0.1) c c c c c c (0.1) c c c c c c c c (0.1) c c c c c c c c c c c c c c c c c c c	11 5 9 m 6 10 17 8 0 m m m 6 6 8 m m m 2 2 10 17 8	(0.8) (0.7) (1.4) m (0.8) (0.8) (0.8) (0.8) (0.8) (1.1) (1.1) (0.5) m m m (0.6) m m m m (4.7) (0.6) m m (0.6) m m m (0.6) (0.9) (0.3) m (0.5) (0.6) (1.1) (0.5)	8.2 3.1 3.3 m 3.6 5.9 15.8 3.6 0.0 m m 3.9 m m m 0.1 9.1 m m 1.1 2.7 m 1.0 8.8 9.8	(1.3) (0.8) (0.9) (1.0) (1.7) (0.8) (0.1) m m (0.8) (0.1) m m m (0.2) (0.9) m (0.1) (0.6) (0.4) (0.7) (1.1) (1.2)	5 4 4 m 5 5 10 0 m m 4 4 m m m m m m m m m 1 8 m m 2 2 7 8 8 7	(0.5) (0.6) (0.7) (0.7) (0.7) (0.7) (1.1) (0.9) (0.4) m m (0.5) m m m (0.6) (0.6) (0.6) (0.3) m (0.6) (0.3)	24.6 36.3 37.4 m 22.9 23.6 29.5 16.7 25.0 m m 15.5 m m 21.2 10.3 m 16.4 28.2 16.4 10.5 29.7 30.5 26.3	(2.1) (2.8) (2.7) (2.9) (1.9) (2.0) (1.0) (3.0) (1.9) (1.9) (2.3) (1.0) (1.9) (2.3) (1.0) (1.9) (2.3) (1.0) (1.1) (1.1) (1.1) (1.1) (1.1) (1.2) (1.2) (1.3) (1.3) (1.4) (1.4) (1.2) (1.3) (1.4) (1.3)
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Cyprus* Dominican Republic PYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	2.6 6.1 4.3 c 3.3 3.1 c 2.9 3.3 c c 3.9 c c c 4.3 3.2 c c 5.2 c 4.3 3.2 c c 4.3 3.2 c c 2.9 3.7 4.9	(0.1) (0.1) (0.1) (0.5) c (0.1) (0.0) c (0.1) (0.2) c c c (0.1) c c c c (0.0) c c c (0.0) c c (0.0) (0.0) c c (0.0) (0.0) c c (0.1) (0.1) (0.1) (0.1) (0.2) (0.1) (0.1)	2.9 4.7 4.3 c 3.6 4.5 3.2 3.1 3.6 c c 3.8 c m c c c c c c c c c c c c c	(0.1) (0.2) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.1) (0.0)	0.2 -1.4 0.0 0.0 c 0.3 1.4 c 0.3 c -0.1 c m c 0.9 c 0.9 c -0.2 0.4 0.2 1.9 -1.7	(0.1) (0.3) (0.4) c (0.1) (0.1) (0.1) (0.2) c c (0.1) c m c (0.1) c m (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.2)	11 5-9 m 6 10 17 8 0 m m m m m 6 8 8 m m m 6 8 8 m m m m m m m m m m m m m	(0.8) (0.7) (1.4) m (0.8) (0.8) (0.8) (0.8) (0.8) (0.1) (0.5) m m (0.6) m m m (4.7) (0.6) m m (0.6) m (0.6) (0.9) (0.9) (0.3) m (0.5) (0.6) (1.1) (0.5) m	8.2 3.1 3.3 m 3.6 5.9 15.8 3.6 0.0 m m m m m m m 0.1 9.1 m m 0.1 1.2.7 m 1.2.0 m 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	(1.3) (0.8) (0.9) (0.9) (1.0) (1.7) (0.8) (0.1) (0.1) m m (0.8) m m m (0.2) (0.9) m m (0.1) (0.6) (0.4) (0.7) (1.1) (1.2) m	5 4 4 m 5 5 10 3 0 m m 4 4 m m m m m m m m m m m 2 1 4 m 2 7 8 7 m m	(0.5) (0.6) (0.7) (0.7) (1.1) (0.9) (0.4) m m (0.5) m m m (0.6) m m (0.6) m m (0.6) m m (0.6) m m (0.6) m m (0.7)	24.6 36.3 37.4 m 22.9 23.6 29.5 16.7 25.0 m m 15.5 m m m 21.2 10.3 m m 16.4 28.2 16.4 29.7 30.5 26.3 30.5 30.5	(2.1) (2.8) (2.7) m (2.4) (1.9) (2.0) (1.0) (3.0) m m (1.9) m m m (2.3) (1.0) m m (0.9) (2.2) (0.7) m (1.8) (1.4) (2.3) (2.8) m
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	2.6 6.1 4.3 c 3.3 3.1 c 2.9 3.3 c c c 3.9 c c c c 4.3 3.2 c c 5.2 3.9 4.1 3.2 c c 2.2 2.2	(0.1) (0.1) (0.5) c (0.1) (0.0) c (0.1) (0.0) c c (0.1) c c c c c c c (0.1) (0.0) c c c c c (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1)	2.9 4.7 4.3 c 3.6 4.5 3.2 3.1 3.6 c c d 3.8 c d 4.2 c c d 4.2 c c d 4.2 c d 4.0 5.1 m 5.0 5.2 4 4.8 c d 2.8	(0.1) (0.2) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.0) (0.1) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1)	0.2 -1.4 0.0 0.0 c 0.3 1.4 c 0.3 c -0.1 c m c c 0.9 c c 0.0 c 0.0 c 0.0 c 1.0 c 0.0	(0.1) (0.3) (0.4) c (0.1) (0.1) (0.2) c c (0.1) c c (0.1) c c c c (0.1) (0.1) (0.1) (0.1) (0.1) (0.2) (0.2) c c (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1)	11 5 9 m 6 10 17 8 0 0 m m m 6 8 8 m m m 2 2 3 5 5 m 2 2 10 17 8 8 m 3 3	(0.8) (0.7) (1.4) m (0.8) (0.7) (1.1) (0.8) (1.1) (1.1) (0.5) m m (0.6) m m m (4.7) (0.6) m m (1.2) (0.9) (0.3) m (0.5) (0.5) (0.6) m m (0.5) (0.5) (0.6) m m (0.7)	8.2 3.1 3.3 m 3.6 5.9 15.8 3.6 0.0 m m m 3.9 m m m 0.1 1.1 2.7 m 1.0 8.0 9.8 12.2 m	(1.3) (0.8) (0.9) m (0.9) m (0.1) (1.7) (0.8) m m m (0.8) m m (0.1) (0.6) (0.4) (0.7) (1.1) (1.2) m (0.3)	5 4 4 m 5 5 10 3 0 m m m 4 m m m m m m m 2 1 1 4 m 2 7 7 m m 2 2	(0.5) (0.6) (0.7) (0.7) (0.7) (1.1) (0.9) (0.4) (0.6) (0.6) (0.6) (0.6) (0.4) (0.6) (0.4) (0.6) (0.4) (0.6) (0.4) (0.6)	24.6 36.3 37.4 m 22.9 23.6 29.5 16.7 25.0 m m 15.5 m m 21.2 10.3 m 16.4 28.2 16.4 28.2 16.4 29.5 29.5 10.3 m m 10.3 m 10.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 2	(2.1) (2.8) (2.7) (2.7) (2.9) (1.9) (2.0) (1.0) (3.0) m m m (1.9) (2.3) (1.0) (3.0) m m (1.9) (2.3) (1.0) (2.3) (2.8) (2.8) (3.2)
	B-S-J-G (China) Bulgaria CABA (Argentina) Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United ARPA (Caba Harabee)	2.6 6.1 4.3 c 3.3 3.1 c 2.9 3.3 c c 3.9 c c c c c c c c c c c c c d 3.7 4.9 c c 5.2 3.6 4.1 3.2 c 4.0	(0.1) (0.1) (0.1) (0.5) c (0.1) (0.0) c (0.1) (0.2) c c (0.1) c c c (0.1) c c c (0.0) (0.0) c c c (0.0) (0.0) c c c (0.1) (0.1) c (0.1) (0.1) c (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1)	2.9 4.7 4.3 c 3.6 4.5 3.2 3.1 3.6 c c 3.8 c c 4.2 c c 4.2 c c 4.2 c c 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5	(0.1) (0.2) (0.1) (0.1) (0.1) (0.1) (0.1) (0.0) (0.1) c (0.1) c (0.1) c (0.1) c (0.0) c c (0.0) c c (0.0) (0.1) (0.0) m (0.2) (0.0) (0.1) (0.1) c (0.1) (0.1) (0.1) (0.1) (0.1)	0.2 -1.4 0.0 0 c 0.3 1.4 c 0.3 c -0.1 c m c 0.9 c -0.1 c m c 0.9 c -0.2 0.4 0.2 m -0.2 1.5 c 0.6 1.4	(0.1) (0.3) (0.4) c (0.1) c (0.1) c (0.1) c c (0.1) (0.1) m (0.2) (0.2) (0.1) (0.1) (0.1)	11 5-9 m 6 10 17 8 0 m m m 5 m m m 6 8 8 m m 6 8 8 m m m m m m m m m m m m m	(0.8) (0.7) (1.4) m (0.8) (0.8) (0.8) (1.1) (0.5) m (0.6) m m (0.6) m m (1.2) (0.9) (0.3) m (0.5) (0.6) (1.1) (0.5) m (0.5) (0.6) (1.1) (0.5) m (0.7) (0.5)	8.2 3.1 3.3 m 3.6 5.9 15.8 3.6 0.0 m m m m m m m m 0.1 9.1 m 0.1 1.1 2.7 m 0.8 8.0 9.8 8.0 9.0 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	(1.3) (0.8) (0.9) m (0.9) m (0.9) (1.0) (1.7) (0.8) m m (0.8) m m m (0.2) (0.9) m m (0.1) (0.6) (0.4) m (0.4) (0.7) (1.1) m (0.6) (0.4) m (0.7) (1.1) (1.2) m (0.3) (0.7)	5 4 4 m 5 5 10 3 0 m m 4 4 m m m m m m m m m m m 2 1 1 4 m m 2 5 5	(0.5) (0.6) (0.7) (0.7) (0.7) (1.1) (0.9) (0.4) m m (0.5) m m m (0.6) (0.6) m m (1.1) (0.6) (0.3) m (0.4) m m (0.5) m m (0.7) m m m m m m m m m m m m m m m m m m m	24.6 36.3 37.4 m 22.9 23.6 29.5 16.7 25.0 m m 15.5 m m m 21.2 10.3 m m 16.4 28.2 16.4 m 10.5 29.7 30.5 26.3 m 17.5 26.3	(2.1) (2.8) (2.7) m (2.4) (1.9) (2.0) (1.0) m m (1.9) m m m m m (1.9) m m (2.3) (1.0) m (0.9) (2.2) (0.7) m (1.8) (1.4) (2.3) (2.8) (2.8) (2.8) (2.8)
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	2.6 6.1 4.3 c 3.3 3.1 c 2.9 3.3 c c 3.9 c c c 4.3 3.2 c c 5.2 2 6 4.1 3.2 c 2.2 4.0 2.7	(0.1) (0.1) (0.1) (0.5) c (0.1) (0.0) c (0.1) (0.0) c c (0.1) c c c c (0.1) c c c c c (0.0) (0.0) c c c (0.1) (0.1) (0.1) (0.1) (0.2) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1)	2.9 4.7 4.3 c 3.6 4.5 3.2 3.1 3.6 c c 3.8 c m c c c c c c c c c c c c c	(0.1) (0.2) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1)	0.2 -1.4 0.0 0.0 c 0.3 1.4 c 0.3 c -0.1 c m c 0.9 c 0.9 c -0.2 0.4 0.2 1.9 -1.7 1.5 c 0.6 1.4 1.1	(0.1) (0.3) (0.4) c (0.1) (0.1) c (0.1) (0.2) c c (0.1) c m c (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1)	11 5-9 m 6 10 17 8 0 m m m m 6 8 m m m 6 8 8 m m m m m m m m m m m m m	(0.8) (0.7) (1.4) m (0.8) (0.8) (0.8) (0.8) (0.8) (0.1) (0.5) m (0.6) m (0.6) m (0.6) m (0.6) m (0.6) m (0.6) m (0.5) (0.6) (1.1) (0.5) m (0.7) (0.5)	8.2 3.1 3.3 m 3.6 5.9 15.8 3.6 0.0 m m m 3.9 m m m 0.1 9.1 m m 0.1 1.1 2.7 m 1.0 9.8 12.2 12.7	(1.3) (0.8) (0.9) m (0.9) (1.0) (1.7) (0.8) m (0.1) (0.1) m m (0.8) m m m (0.2) (0.9) m m (0.1) (0.6) (0.4) (0.7) (1.1) (1.2) m (0.3) (0.7) (0.6)	5 4 4 m 5 5 10 3 0 m m 4 4 m m m m m m m m m m 2 1 4 m 2 7 8 7 m 2 2 5 2 2	(0.5) (0.6) (0.7) (0.7) (0.7) (1.1) (0.9) (0.4) m m (0.5) m m m (0.6) m m (0.6) m m (0.6) m m (0.6) m m (0.6) m m (0.7)	24.6 36.3 37.4 m 22.9 23.6 29.5 16.7 25.0 m m 15.5 m m m 21.2 10.3 m m 16.4 28.2 16.4 m 10.5 29.7 30.5 26.3 16.7 16.4 29.7 30.5 29.7 30.5 20.7 20.7 20.7 20.7 20.7 20.7 20.7 20.7	(2.1) (2.8) (2.7) (2.7) (2.9) (1.9) (2.0) (1.0) (3.0) (3.0) (3.0) (3.0) (3.0) (1.0) (3.0) (1.0) (3.0) (1.0) (3.0) (1.0) (3.0) (1.0) (3.0) (1.0) (3.0) (1.0) (3.0) (1.0) (3.0) (1.0) (3.0) (1.0) (3.0) (1.0) (3.0) (3.0) (3.0) (4.0) (5.0) (6.0) (6.0) (6.0) (6.0) (7.0)
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Turusia United Arab Emirates Uruguay Viet Nam	2.6 6.1 4.3 c 3.3 3.1 c 2.9 3.3 c c 3.9 c c c 4.3 3.2 c c 4.3 3.2 c c 2.9 3.7 4.9 3.7 4.9 2.2 4.0 2.7 c 2.2 4.0 2.7 c	(0.1) (0.1) (0.1) (0.5) c (0.1) (0.0) c (0.1) (0.2) c c c c (0.1) c c c c (0.0) c c (0.0) c c c (0.0) c c c (0.0) c c c (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) c (0.1)	2.9 4.7 4.3 c 3.6 4.5 3.2 3.1 3.6 c c 3.8 c m c c 4.2 c c 1.7 4.0 5.1 m 5.0 5.5 2.4 4.8 c 2.8 5.5 3.8 c	(0.1) (0.2) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1)	0.2 -1.4 -0.0 -0.0 -0.3 -0.1 -0.1 -0.1 -0.2 -0.2 -0.2 -0.4 -0.2 -1.7 -1.5 -0.6 -1.4 -1.1 -1.5	(0.1) (0.3) (0.4) c (0.1) (0.1) (0.2) c c (0.1) c m c (0.1) c c (0.1) (0.2) (0.1)	11 5-9 m 6 10 17 8 0 m m m m 6 8 m m m 6 8 8 m m m m m m m m m m m m m	(0.8) (0.7) (1.4) m (0.8) (0.7) (0.5) m m (0.6) m m m (4.7) (0.6) m m (0.5) m (0.6) m m (0.5) m (0.7) (0.7) (0.7) m (0.7) m (0.7) m (0.7) m (0.7) m (0.7)	8.2 3.1 3.3 m 3.6 5.9 15.8 3.6 0.0 m m m 3.9 m m m 0.1 9.1 m m 0.1 1.2.7 m 1.0 9.8 12.27 m 0.8 5.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	(1.3) (0.8) (0.9) (0.9) (1.0) (1.7) (0.8) (0.1) (0.1) (0.8) (0.9) (0.9) (0.9) (0.9) (0.9) (0.9) (0.9) (0.9) (0.9) (0.1) (0.6) (0.4) (0.7) (1.1) (1.2) (1.1) (1.2) (0.3) (0.7) (0.6) (0.8)	5 4 4 m 5 5 10 3 0 m m 4 4 m m m m m m m m m m m 2 1 4 m 2 7 8 8 7 7 m 2 2 5 2 m	(0.5) (0.6) (0.7) (0.7) (1.1) (0.9) (0.4) m m (0.5) m m m (3.6) (0.6) m m (0.6) (0.6) (0.3) m (0.6) (0.9) (0.4)	24.6 36.3 37.4 m 22.9 23.6 29.5 16.7 25.0 m m 15.5 m m m 21.2 10.3 m m 16.4 28.2 16.4 4 m 10.5 29.7 30.5 26.3 16.7 29.5 16.7 29.5 16.7 20.7 20.7 20.7 20.7 20.7 20.7 20.7 20	(2.1) (2.8) (2.7) (2.7) (2.9) (1.9) (2.0) (3.0) (3.0) (3.0) (3.0) (3.0) (3.0) (1.9) (2.3) (1.0) (2.3) (2.3) (2.3) (2.3) (2.3) (2.3) (2.3) (2.8) (3.2) (1.6) (1.8) (1.8)
	B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	2.6 6.1 4.3 c 3.3 3.1 c 2.9 3.3 c c 3.9 c c c 4.3 3.2 c c 5.2 2 6 4.1 3.2 c 2.2 4.0 2.7	(0.1) (0.1) (0.1) (0.5) c (0.1) (0.0) c (0.1) (0.0) c c (0.1) c c c c (0.1) c c c c c (0.0) (0.0) c c c (0.1) (0.1) (0.1) (0.1) (0.2) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1)	2.9 4.7 4.3 c 3.6 4.5 3.2 3.1 3.6 c c 3.8 c m c c c c c c c c c c c c c	(0.1) (0.2) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1)	0.2 -1.4 0.0 0.0 c 0.3 1.4 c 0.3 c -0.1 c m c 0.9 c 0.9 c -0.2 0.4 0.2 1.9 -1.7 1.5 c 0.6 1.4 1.1	(0.1) (0.3) (0.4) c (0.1) (0.1) c (0.1) (0.2) c c (0.1) c m c (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1)	11 5-9 m 6 10 17 8 0 m m m m 6 8 m m m 6 8 8 m m m m m m m m m m m m m	(0.8) (0.7) (1.4) m (0.8) (0.8) (0.8) (0.8) (0.8) (0.1) (0.5) m (0.6) m (0.6) m (0.6) m (0.6) m (0.6) m (0.6) m (0.5) (0.6) (1.1) (0.5) m (0.7) (0.5)	8.2 3.1 3.3 m 3.6 5.9 15.8 3.6 0.0 m m m 3.9 m m m 0.1 9.1 m m 0.1 1.1 2.7 m 1.0 9.8 12.2 12.7	(1.3) (0.8) (0.9) m (0.9) (1.0) (1.7) (0.8) m (0.1) (0.1) m m (0.8) m m m (0.2) (0.9) m m (0.1) (0.6) (0.4) (0.7) (1.1) (1.2) m (0.3) (0.7) (0.6)	5 4 4 m 5 5 10 3 0 m m 4 4 m m m m m m m m m m 2 1 4 m 2 7 8 7 m 2 2 5 2 2	(0.5) (0.6) (0.7) (0.7) (0.7) (1.1) (0.9) (0.4) m m (0.5) m m m (0.6) m m (0.6) m m (0.6) m m (0.6) m m (0.6) m m (0.7)	24.6 36.3 37.4 m 22.9 23.6 29.5 16.7 25.0 m m 15.5 m m m 21.2 10.3 m m 16.4 28.2 16.4 m 10.5 29.7 30.5 26.3 16.7 16.4 29.7 30.5 29.7 30.5 20.7 20.7 20.7 20.7 20.7 20.7 20.7 20.7	(2.1) (2.8) (2.7) (2.9) (1.9) (2.0) (1.0) (3.0) (3.0) (3.0) (3.0) (3.0) (3.0) (3.0) (3.0) (1.0) (3.0) (1.0) (3.0) (1.0) (3.0)

^{1.} The socio-economic profile is measured by the PISA index of economic, social and cultural status (ESCS).

Note: Values that are statistically significant are indicated in bold (see Annex A3).

* See note at the beginning of this Annex.

* Coverage is too small to ensure comparability (see Annex A4).

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** The socio-economic profile is measured by the profile is the profile in the profile is the



[Part 1/1]

Table II.6.37 After-school study time¹

					er school (e.g. h					
	Scie			matics	Language of		Foreign I	0 0	Other s	
	Hours	S.E.	Hours	S.E.	Hours	S.E.	Hours	S.E.	Hours	S.E.
Australia	3.4	(0.0)	4.1	(0.0)	3.7	(0.0)	1.0	(0.0)	4.6	(0.1)
Austria	3.7	(0.1)	3.2	(0.1)	1.9	(0.0)	3.1	(0.1)	4.1	(0.1)
Belgium	2.8	(0.0)	3.6	(0.0)	2.3	(0.0)	3.1	(0.1)	3.5	(0.1)
Canada Chile	4.4 3.7	(0.1)	4.4 4.5	(0.0)	3.5 4.0	(0.0)	1.7 2.8	(0.0)	4.1 3.3	(0.1)
Czech Republic	2.6	(0.1)	3.0	(0.0)	2.7	(0.1)	3.4	(0.1)	4.3	(0.1
Denmark	4.4	(0.1)	3.6	(0.1)	4.6	(0.1)	3.7	(0.1)	2.5	(0.1
Estonia	3.3	(0.0)	4.0	(0.1)	2.8	(0.1)	3.5	(0.1)	3.7	(0.1
Finland	2.0	(0.0)	2.2	(0.0)	1.9	(0.0)	2.3	(0.0)	3.4	(0.1
France	2.5	(0.0)	3.3	(0.0)	3.0	(0.0)	3.1	(0.1)	3.5	(0.1
Germany	1.7	(0.0)	2.7	(0.1)	1.8	(0.0)	2.5	(0.0)	2.4	(0.1
Greece	4.7	(0.1)	4.9	(0.1)	3.6	(0.1)	3.4	(0.1)	4.7	(0.1
Hungary	2.9	(0.1)	3.2	(0.1)	3.3	(0.1)	4.6	(0.1)	3.7	(0.1
Iceland	1.9	(0.0)	3.5	(0.0)	3.2	(0.1)	3.2	(0.1)	3.2	(0.1
Ireland Israel	2.7	(0.0)	3.6 4.7	(0.0)	3.1 2.4	(0.1)	2.3 3.2	(0.0)	4.1 4.1	(0.1
Italy	4.1	(0.1)	4.7	(0.1)	4.4	(0.1)	4.0	(0.1)	4.1	(0.1
Japan	2.0	(0.1)	3.9	(0.1)	2.1	(0.1)	3.5	(0.1)	2.2	(0.1
Korea	2.5	(0.0)	6.5	(0.1)	3.0	(0.1)	5.1	(0.1)	3.2	(0.1
Latvia	3.4	(0.1)	4.1	(0.1)	2.8	(0.1)	3.6	(0.1)	4.3	(0.1
Luxembourg	2.9	(0.0)	3.7	(0.1)	2.5	(0.0)	3.8	(0.1)	2.7	(0.1
Mexico	4.4	(0.1)	4.6	(0.1)	4.2	(0.1)	3.5	(0.1)	3.4	(0.1
Netherlands	1.7	(0.0)	2.6	(0.0)	2.3	(0.0)	2.7	(0.1)	4.9	(0.1
New Zealand	3.6	(0.1)	3.5	(0.1)	3.3	(0.1)	0.7	(0.0)	5.6	(0.1
Norway	3.0	(0.0)	3.8	(0.1)	3.5	(0.1)	2.4	(0.0)	5.3	(0.1
Poland	3.1	(0.1)	3.4	(0.1)	3.0	(0.1)	4.9	(0.1)	4.0	(0.1
Portugal	3.2	(0.1)	4.2	(0.1)	3.4	(0.1)	2.7	(0.1)	3.7	(0.1
Slovak Republic	3.0	(0.1)	3.4	(0.1)	3.5	(0.1)	4.1	(0.1)	4.4	(0.1
Slovenia	3.0	(0.1)	4.1	(0.1)	2.8	(0.1)	2.9	(0.1)	4.5	(0.1
Spain	3.4	(0.1)	4.0	(0.1)	3.4	(0.1)	3.2	(0.0)	4.2	(0.1
Sweden	2.6	(0.0)	2.6	(0.0)	2.3	(0.1)	2.2	(0.1)	4.1	(0.1
Switzerland Turkey	2.1 4.7	(0.0)	3.0 5.8	(0.1)	2.5 4.4	(0.1)	3.1 3.8	(0.1)	2.6 5.8	(0.1
United Kingdom	3.7	(0.1)	3.6	(0.0)	3.1	(0.1)	1.5	(0.1)	5.0	(0.1
United States	4.5	(0.1)	4.6	(0.0)	4.3	(0.0)	2.8	(0.0)	4.2	(0.1
OECD average	3.2	(0.0)	3.8	(0.0)	3.1	(0.0)	3.1	(0.0)	3.9	(0.0)
Albania	m	m	m	m	m	m	m	m	m	n
Algeria	m	m	m	m	m	m	m	m	m	n
Brazil	4.3	(0.1)	5.2	(0.1)	5.0	(0.1)	3.0	(0.1)	4.3	(0.1
B-S-J-G (China)	4.4	(0.1)	6.6	(0.1)	5.6	(0.1)	5.2	(0.1)	5.2	(0.1
Bulgaria CABA (Argentina)	3.8 m	(0.1) m	3.6 m	(0.1) m	3.5 m	(0.1) m	4.8 m	(0.1) m	3.6 m	(0.1 n
Colombia Colombia	3.7	(0.1)	4.2	(0.1)	4.0	(0.1)	3.4	(0.1)	4.3	(0.1
Costa Rica	4.0	(0.1)	4.1	(0.1)	3.3	(0.1)	3.5	(0.1)	3.2	(0.1
Croatia	5.9	(0.2)	4.0	(0.1)	3.3	(0.1)	2.9	(0.1)	3.8	(0.1
Cyprus*	3.3	(0.0)	4.3	(0.1)	3.5	(0.1)	3.4	(0.0)	4.7	(0.1
Dominican Republic	5.3	(0.1)	5.7	(0.1)	5.4	(0.1)	4.2	(0.1)	4.5	(0.1
FYROM	m	m	m	m	m	m	m	m	m	n
Georgia	m	m	m	m	m	m	m	m	m	n
Hong Kong (China)	3.0	(0.1)	4.0	(0.1)	3.0	(0.1)	4.5	(0.1)	3.2	(0.1
Indonesia	m	m	m	m	m	m	m	m	m	n
Jordan	m	m	m m	m	m	m	m	m	m	n
Kosovo Lebanon	m m	m m	m m	m m	m m	m m	m m	m m	m m	n n
Lithuania	3.4	(0.1)	3.7	(0.0)	3.7	(0.1)	3.7	(0.1)	3.9	(0.1
Macao (China)	2.8	(0.1)	3.9	(0.0)	3.0	(0.0)	2.7	(0.0)	3.8	(0.1
Malta	m	m	m	m	m	m	m	m	m	n
Moldova	m	m	m	m	m	m	m	m	m	n
Montenegro	5.0	(0.1)	4.9	(0.1)	4.4	(0.1)	4.0	(0.1)	5.9	(0.1
Peru	4.0	(0.1)	5.2	(0.1)	4.6	(0.1)	3.1	(0.1)	4.0	(0.1
Qatar	6.0	(0.1)	6.3	(0.1)	4.1	(0.0)	4.5	(0.1)	4.9	(0.1
Romania	m	m	m	m (0.1)	m	m (0.1)	m	m (0.1)	m	(O. 2
Russia	4.7	(0.1)	5.6	(0.1)	4.1	(0.1)	2.9	(0.1)	5.3	(0.2
Singapore Chinese Taipei	5.6	(0.1)	6.2	(0.1)	3.8	(0.0)	1.8	(0.0)	4.7	(0.1
Thailand	3.1 5.4	(0.1)	3.6	(0.1)	3.1	(0.1)	2.9 4.4	(0.1)	3.7 5.1	(0.1
Trinidad and Tobago	5.4 m	(0.1) m	4.8 m	(0.1) m	3./ m	(0.1) m	4.4 m	(0.1) m	5.1 m	(0.1
Tunisia	4.3	(0.1)	5.7	(0.1)	5.1	(0.1)	4.8	(0.1)	5.8	(0.1
United Arab Emirates	7.2	(0.1)	7.0	(0.1)	5.4	(0.1)	4.5	(0.1)	5.6	(0.1
	3.3	(0.1)	3.6	(0.1)	3.2	(0.1)	2.8	(0.1)	3.5	(0.1
Uruguay				m	m	m	m	m	m	n
Uruguay Viet Nam	m	m	m	111	111					
Viet Nam										
	m m m	m m m	m m	m m	m m	m m	m m	m m	m m	m

^{1.} Hours spent learning in addition to the required school schedule, including homework, additional instruction and private study.
* See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** http://dx.doi.org/10.1787/888933436513



[Part 1/3]

Table II.6.38 Time per week studying science after school¹, science performance and school characteristics

			Average	time per w	eek spent	studying so	ience afte	r school (e	.g. homew	ork, additi	onal instru	iction, priv	ate study),	in hours	
			All stu	udents					By sch	ool socio-e	conomic p	orofile ²			
		Avei	rage	Varia	bility	Bottom	quarter	Second	quarter	Third o	juarter	Top q	uarter		oottom
		Hours	S.E.	S.D.	S.E.	Hours	S.E.	Hours	S.E.	Hours	S.E.	Hours	S.E.	Dif.	S.E.
Q	Australia	3.4	(0.0)	2.9	(0.1)	3.7	(0.1)	3.3	(0.1)	3.3	(0.1)	3.4	(0.1)	-0.3	(0.1)
OFCD	Austria	3.7	(0.1)	5.1	(0.2)	4.1	(0.3)	3.8	(0.3)	3.6	(0.2)	3.1	(0.1)	-1.1	(0.4)
_	Belgium Canada	2.8 4.4	(0.0)	2.5 3.9	(0.1)	2.8 4.3	(0.1)	2.8 4.4	(0.1)	2.8 4.5	(0.1)	2.8 4.3	(0.1)	0.0	(0.2)
	Chile	3.7	(0.1)	3.2	(0.1)	4.1	(0.1)	3.8	(0.1)	3.5	(0.1)	3.4	(0.1)	- 0.8	(0.2)
	Czech Republic	2.6	(0.1)	2.9	(0.1)	2.8	(0.1)	2.6	(0.1)	2.3	(0.2)	2.7	(0.1)	-0.1	(0.2)
	Denmark	4.4	(0.1)	4.5	(0.1)	4.4	(0.2)	4.4	(0.2)	4.4	(0.2)	4.4	(0.2)	0.0	(0.3)
	Estonia	3.3	(0.0)	3.1	(0.1)	3.7	(0.1)	3.2	(0.1)	3.3	(0.1)	3.1	(0.1)	-0.6	(0.2)
	Finland	2.0	(0.0)	2.2	(0.1)	2.0	(0.1)	2.0	(0.1)	2.1	(0.1)	2.1	(0.1)	0.1	(0.1)
	France Germany	2.5 1.7	(0.0)	2.6	(0.1)	2.3 1.6	(0.1)	2.4 1.6	(0.1)	2.5 1.8	(0.1)	2.7 1.7	(0.1) (0.1)	0.4 0.2	(0.1)
	Greece	4.7	(0.1)	3.8	(0.1)	4.3	(0.2)	4.6	(0.1)	5.0	(0.2)	4.9	(0.1)	0.6	(0.2)
	Hungary	2.9	(0.1)	3.2	(0.1)	3.2	(0.2)	2.9	(0.1)	2.8	(0.1)	2.9	(0.2)	-0.4	(0.2)
	Iceland	1.9	(0.0)	2.1	(0.1)	2.0	(0.1)	1.9	(0.1)	1.9	(0.1)	1.8	(0.1)	-0.2	(0.1)
	Ireland	2.7	(0.0)	2.8	(0.1)	2.6	(0.1)	2.8	(0.1)	2.8	(0.1)	2.7	(0.1)	0.1	(0.2)
	Israel	2.7	(0.1)	3.5	(0.1)	3.9	(0.3)	3.0	(0.3)	2.1	(0.2)	2.0	(0.2)	-1.9	(0.4)
	Italy	4.1 2.0	(0.1)	3.4 2.4	(0.1)	3.5 1.9	(0.2)	3.7 2.0	(0.1)	4.4 2.0	(0.2)	4.7 2.0	(0.2)	1.2 0.1	(0.3)
	Japan Korea	2.5	(0.0)	2.4	(0.1)	2.2	(0.1)	2.0	(0.1)	2.5	(0.1)	3.0	(0.1)	0.1	(0.1)
	Latvia	3.4	(0.1)	3.2	(0.1)	3.5	(0.1)	3.5	(0.1)	3.5	(0.1)	3.2	(0.2)	-0.3	(0.2)
	Luxembourg	2.9	(0.0)	3.4	(0.1)	3.2	(0.1)	3.1	(0.1)	2.7	(0.1)	2.8	(0.1)	-0.4	(0.1)
	Mexico	4.4	(0.1)	3.7	(0.1)	4.8	(0.2)	4.6	(0.2)	4.3	(0.2)	4.0	(0.1)	-0.9	(0.2)
	Netherlands	1.7	(0.0)	2.5	(0.1)	1.3	(0.1)	1.5	(0.1)	1.9	(0.1)	2.2	(0.1)	0.9	(0.2)
	New Zealand	3.6	(0.1)	3.0	(0.1)	3.8	(0.1)	3.4	(0.1)	3.4	(0.1)	3.8	(0.2)	0.0	(0.2)
	Norway Poland	3.0	(0.0)	2.7	(0.1)	3.1	(0.1)	2.9 3.0	(0.1)	2.8 3.1	(0.1)	3.0	(0.1)	-0.1 0.2	(0.1)
	Portugal	3.2	(0.1)	4.0	(0.1)	2.9	(0.1)	3.3	(0.1)	3.0	(0.1)	3.5	(0.1)	0.6	(0.1)
	Slovak Republic	3.0	(0.1)	3.5	(0.1)	3.2	(0.2)	2.5	(0.2)	2.6	(0.2)	3.7	(0.2)	0.5	(0.2)
	Slovenia	3.0	(0.1)	3.1	(0.1)	2.8	(0.1)	2.6	(0.1)	3.2	(0.1)	3.3	(0.1)	0.5	(0.1)
	Spain	3.4	(0.1)	3.3	(0.1)	3.2	(0.1)	3.4	(0.2)	3.5	(0.1)	3.6	(0.1)	0.3	(0.2)
	Sweden	2.6	(0.0)	2.7	(0.1)	2.7	(0.1)	2.6	(0.1)	2.4	(0.1)	2.7	(0.1)	0.0	(0.2)
	Switzerland	2.1	(0.0)	2.5	(0.1)	2.2	(0.1)	1.9	(0.1)	2.0	(0.1)	2.4	(0.1)	0.2	(0.2)
	Turkey United Kingdom	4.7 3.7	(0.1)	3.6 3.1	(0.1)	4.5 3.8	(0.2)	4.3 3.7	(0.2)	4.6 3.6	(0.2)	5.1 3.8	(0.2)	0.6 0.0	(0.3)
	United States	4.5	(0.1)	3.7	(0.1)	4.7	(0.1)	4.5	(0.1)	4.3	(0.1)	4.4	(0.1)	-0.3	(0.2)
	OECD average	3.2	(0.0)	3.1	(0.0)	3.2	(0.0)	3.1	(0.0)	3.1	(0.0)	3.2	(0.0)	0.0	(0.0)
	Albania							100	100	100	100				
Partners	Albania Algeria	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m
i i	Brazil	4.3	(0.1)	4.2	(0.1)	4.5	(0.1)	4.3	(0.1)	4.1	(0.1)	4.3	(0.1)	-0.2	(0.1)
70	B-S-J-G (China)	4.4	(0.1)	4.8	(0.1)	4.2	(0.1)	4.1	(0.1)	4.1	(0.2)	5.2	(0.3)	1.1	(0.3)
	Bulgaria	3.8	(0.1)	3.8	(0.1)	4.5	(0.2)	3.7	(0.1)	3.8	(0.2)	3.5	(0.1)	-1.0	(0.2)
	CABA (Argentina)	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Colombia	3.7	(0.1)	3.6	(0.1)	4.2	(0.2)	3.9	(0.2)	3.6	(0.1)	3.3	(0.1)	-0.9	(0.2)
	Costa Rica Croatia	4.0 5.9	(0.1)	3.9 6.5	(0.1)	4.1 3.9	(0.1)	3.8 5.2	(0.1)	3.7 5.8	(0.2)	4.2 8.4	(0.2)	0.2 4.5	(0.2)
	Cyprus*	3.3	(0.2)	3.5	(0.1)	3.2	(0.4)	3.1	(0.1)	3.1	(0.4)	3.8	(0.3)	0.5	(0.2)
	Dominican Republic	5.3	(0.1)	4.5	(0.1)	5.6	(0.3)	5.5	(0.2)	5.6	(0.2)	4.6	(0.1)	-0.9	(0.3)
	FYROM	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Georgia	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Hong Kong (China)	3.0	(0.1)	3.9	(0.1)	2.4	(0.2)	2.7	(0.2)	3.1	(0.2)	3.6	(0.2)	1.2	(0.2)
	Indonesia	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Jordan Kosovo	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m
	Lebanon	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Lithuania	3.4	(0.1)	3.5	(0.1)	3.6	(0.1)	3.3	(0.1)	3.2	(0.1)	3.6	(0.1)	0.0	(0.2)
	Macao (China)	2.8	(0.1)	3.7	(0.1)	2.2	(0.1)	3.1	(0.1)	2.5	(0.1)	3.4	(0.1)	1.2	(0.1)
	Malta	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Moldova	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Montenegro Peru	5.0	(0.1)	4.9	(0.1)	4.6	(0.1)	5.2	(0.1)	4.6	(0.1)	5.4	(0.2)	0.9	(0.2)
	Peru Qatar	4.0 6.0	(0.1)	3.0 5.2	(0.1)	4.4 6.0	(0.1)	4.0 6.1	(0.1)	3.8 5.9	(0.2)	3.9 5.9	(0.2)	-0.5 -0.1	(0.2)
	Romania	m	(0.1) m	m 5.2	(0.1) m	m	(0.1) m	m	(0.1) m	3.9 m	(0.1) m	3.9 m	(0.1) m	-0.1 m	(0.2) m
	Russia	4.7	(0.1)	4.2	(0.1)	4.8	(0.2)	4.9	(0.2)	4.6	(0.2)	4.6	(0.2)	-0.1	(0.3)
	Singapore	5.6	(0.1)	4.1	(0.1)	5.0	(0.1)	5.4	(0.1)	5.7	(0.1)	6.2	(0.2)	1.2	(0.2)
	Chinese Taipei	3.1	(0.1)	4.1	(0.1)	2.3	(0.2)	2.9	(0.1)	3.0	(0.2)	4.1	(0.1)	1.9	(0.2)
	Thailand	5.4	(0.1)	4.5	(0.1)	5.3	(0.2)	5.7	(0.2)	5.2	(0.2)	5.5	(0.2)	0.1	(0.2)
	Trinidad and Tobago	m	m (0.1)	m	m (0.1)	m	m (0.2)	m 4.2	m	m	m (0.2)	m	m	m	(O, 4)
	Tunisia United Arab Emirates	4.3 7.2	(0.1)	4.2 5.3	(0.1)	4.5 6.9	(0.3)	4.2 7.1	(0.4)	4.4 7.8	(0.2)	4.1 6.9	(0.1)	-0.4 -0.1	(0.4)
	United Arab Emirates Uruguay	3.3	(0.1)	3.5	(0.1)	3.4	(0.2)	7.1 3.4	(0.2)	3.2	(0.2)	3.2	(0.2)	-0.1	(0.3)
	Viet Nam	m	m	m	m	m	m	m	m	m	m	m	(0.1) m	m	(0.2)
_	Argentina**	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Kazakhstan**	m	m	m	m	m	m	m	m	m	m	m	m	m	m
											(0.2)	6.2			

^{1.} Hours spent learning in addition to the required school schedule, including homework, additional instruction and private study.

2. The socio-economic profile is measured by the PISA index of economic, social and cultural status.

Note: Values that are statistically significant are indicated in bold (see Annex A3).

*See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 2/3]

Table II.6.38 Time per week studying science after school¹, science performance and school characteristics

Posults based on students' self reports

			Average	time per w	eek spent	studying sc	ience afte	r school (e	.g. homew	ork, additio	onal instru	iction, priv	ate study)	in hours	
					By schoo	l location						By type o	of school		
		Rural area (fewe 3 000 p	r than	Tov (3 00 100 000	00 to	Cit (ov 100 000	ér	City - ru	ral area	Pub	lic	Priv	ate	Private	– publi
		Hours	S.E.	Hours	S.E.	Hours	S.E.	Dif.	S.E.	Hours	S.E.	Hours	S.E.	Dif.	S.E
Austral	lia	3.4	(0.2)	3.2	(0.1)	3.4	(0.1)	0.0	(0.2)	3.4	(0.1)	3.3	(0.1)	-0.1	(0.1
Austria		4.5	(0.5)	3.5	(0.1)	3.6	(0.2)	-0.8	(0.6)	3.6	(0.1)	3.7	(0.3)	0.1	(0.3
Belgiur		2.9	(0.2)	2.7	(0.1)	3.0	(0.1)	0.0	(0.2)	W	W	W	W	W	٧
Canada	a	4.2	(0.2)	4.3	(0.1)	4.5	(0.1)	0.3	(0.2)	4.4	(0.1)	3.9	(0.2)	-0.6	(0.2
Chile	n I.P	4.2	(0.4)	3.9	(0.1)	3.5	(0.1)	-0.7	(0.4)	3.9	(0.1)	3.5	(0.1)	-0.3	(0.1
	Republic	3.2	(0.2)	2.6	(0.1)	2.4	(0.1)	-0.8	(0.2)	2.6	(0.1)	2.4	(0.1)	-0.2	(0.1
Denma Estonia		4.3 3.6	(0.3)	4.4 3.3	(0.1)	4.8 3.1	(0.2)	0.5 -0.5	(0.4)	4.5 3.4	(0.1)	4.4 3.3	(0.2)	-0.1 -0.1	(0.3
Finland		1.9	(0.1)	2.0	(0.0)	2.1	(0.1)	0.2	(0.2)	2.0	(0.0)	2.2	(0.2)	0.2	(0.2
France		2.7	(0.1)	2.4	(0.1)	2.6	(0.1)	0.0	(0.2)	2.4	(0.0)	2.7	(0.1)	0.3	(0.2
Germa		2.0	(0.2)	1.7	(0.1)	1.6	(0.1)	-0.4	(0.2)	1.7	(0.0)	1.7	(0.2)	0.0	(0.2
Greece		4.4	(0.3)	4.7	(0.1)	4.9	(0.1)	0.4	(0.3)	4.7	(0.1)	4.5	(0.3)	-0.2	(0.3
Hunga	ıry	4.7	(0.9)	3.1	(0.1)	2.6	(0.1)	-2.1	(0.9)	2.9	(0.1)	3.0	(0.2)	0.1	(0.2
Iceland		2.0	(0.1)	1.9	(0.1)	1.9	(0.1)	-0.1	(0.1)	1.9	(0.0)	С	С	С	
Ireland	ł	2.7	(0.1)	2.8	(0.1)	2.6	(0.1)	-0.2	(0.2)	2.7	(0.1)	2.7	(0.1)	0.0	(0.
Israel		2.6	(0.4)	3.2	(0.1)	2.2	(0.2)	-0.5	(0.4)	m	m	m	m	m	(0.1
Italy		3.5	(0.3)	4.1	(0.1)	4.2	(0.1)	0.7	(0.3)	4.2	(0.1)	3.2	(0.3)	-0.9	(0.1
Japan Korea		С	C	1.9 2.6	(0.1)	2.0	(0.0)	C	C	1.9 2.4	(0.1)	2.2	(0.1)	0.3 0.2	(0.
Latvia		3.5	(0.1)	3.4	(0.2)	3.4	(0.1)	0.0	(0.2)	3.4	(0.1)	4.0	(0.1)	0.2	(0.
Luxem	hourg	3.3 m	(0.1) m	3.4	(0.1)	2.8	(0.1)	m	(U.2) m	2.9	(0.1)	3.3	(0.1)	0.5	(0.
Mexico		4.9	(0.3)	4.5	(0.1)	4.2	(0.1)	-0.7	(0.3)	4.5	(0.0)	3.9	(0.1)	-0.6	(0.
Nether		C	(0.5)	1.7	(0.1)	2.1	(0.1)	C	(0.5)	2.0	(0.1)	1.7	(0.1)	-0.3	(0.
New Z		3.6	(0.6)	3.5	(0.1)	3.6	(0.1)	0.0	(0.6)	3.4	(0.1)	4.4	(0.4)	1.0	(0.
Norwa	ıy	3.0	(0.1)	2.9	(0.1)	2.9	(0.1)	-0.1	(0.2)	2.9	(0.0)	3.0	(0.4)	0.1	(0.
Poland		3.1	(0.1)	3.1	(0.1)	3.2	(0.1)	0.1	(0.1)	3.1	(0.1)	3.2	(0.2)	0.1	(0.
Portuga		3.6	(0.2)	3.2	(0.1)	3.1	(0.2)	-0.5	(0.3)	3.2	(0.1)	3.3	(0.7)	0.1	(0.
	Republic	3.6	(0.2)	2.9	(0.1)	3.1	(0.3)	-0.6	(0.3)	3.0	(0.1)	3.1	(0.3)	0.1	(0
Sloveni	ia	3.0	(0.4)	3.0	(0.1)	3.0	(0.1)	-0.1	(0.4)	3.0	(0.1)	3.4	(0.3)	0.3	(0
Spain Sweder	_	3.6	(0.8)	3.4	(0.1)	3.6	(0.1)	0.0	(0.8)	3.4	(0.1)	3.5	(0.1)	0.1	(0.
Switzer		2.6 1.6	(0.2)	2.5 2.1	(0.1)	2.8	(0.1)	0.6	(0.2)	2.6 2.1	(0.0)	2.6 2.2	(0.2)	0.0	(0.1
Turkey		3.7	(0.1)	4.7	(0.1)	4.7	(0.1)	1.0	(0.2)	4.6	(0.1)	5.1	(0.1)	0.5	(0.3
	l Kingdom	3.8	(0.3)	3.7	(0.1)	3.9	(0.2)	0.0	(0.3)	3.7	(0.1)	4.1	(0.2)	0.4	(0.2
United		4.3	(0.3)	4.4	(0.1)	4.6	(0.1)	0.2	(0.3)	4.5	(0.1)	4.6	(0.3)	0.2	(0.3
OECD	average	3.4	(0.1)	3.1	(0.0)	3.2	(0.0)	-0.1	(0.1)	3.2	(0.0)	3.3	(0.0)	0.1	(0.0
A II .						1						1			
Albania		С	С	С	С	С	С	С	С	С	C	С	С	С	
Algeria Brazil	1	4.4	(O 4)	c 4.3	(0.1)	4.2	(0.1)	-0.1	(0.4)	4.1	(0.1)	4.6	(0.2)	0.5	(0.2
	G (China)	4.4	(0.4)	4.3	(0.1)	4.2	(0.1)	0.6	(0.4)	4.1	(0.1)	4.6	(0.2)	0.0	(0
Bulgari		4.7	(0.2)	3.9	(0.1)	3.7	(0.1)	-1.0	(0.3)	3.9	(0.1)	с с	(0.5)	С.0	(0.
	(Argentina)	m	m	C C	(0.1) C	C C	(O.1)	m	(0.5) m	C C	(O.1)	c	C	С	
Colom		3.9	(0.2)	3.8	(0.2)	3.6	(0.1)	-0.4	(0.2)	3.8	(0.1)	3.4	(0.2)	-0.3	(0.
Costa I		4.2	(0.2)	3.9	(0.1)	3.7	(0.2)	-0.5	(0.2)	3.9	(0.1)	4.0	(0.2)	0.0	(0.
Croatia	a	С	С	5.5	(0.2)	6.4	(0.3)	С	С	5.8	(0.2)	8.9	(0.8)	3.1	(0.
Cyprus		4.0	(0.2)	3.2	(0.1)	3.4	(0.1)	-0.5	(0.2)	3.1	(0.0)	4.3	(0.2)	1.2	(0.
	nican Republic	5.1	(0.3)	5.3	(0.2)	5.1	(0.2)	0.0	(0.4)	5.3	(0.1)	4.9	(0.2)	-0.4	(0.
FYRON		С	С	С	С	С	С	С	С	С	С	С	С	С	
Georgi		C	C	C	C	C 2.0	(O 1)	C	C	C 2.0	(O 2)	C 2.0	(O 1)	C 0.1	/0
riong F	Kong (China)	m	m C	m c	m C	3.0	(0.1)	m c	m c	3.0 c	(0.2) c	3.0 c	(0.1)	-0.1 c	(0.
	Joint				C	С	С	C	C			С	C C	C	
Indone		С			C	C	C	C	C	C					
Indone Jordan		С	С	С	C C	C C	C C	C C	C C	C C	C C				
Indone)				C C	C C	C C	C C	C C	C C	C C	c	C C	c	
Indone Jordan Kosovo Lebano Lithuar	on nia	C C	C C	C C	С	c c 3.4	c c (0.1)	С	С	С	С	c c 3.8	C C (0.5)	С	(0.
Indone Jordan Kosovo Lebano Lithuar Macao	on	c c c 3.5	C C C (0.1)	c c c 3.4 c	C C (0.1) C	c c 3.4 2.8	c c (0.1) (0.1)	c c -0.2 c	C C (0.1) C	c c 3.4 c	C C (0.1) C	c c 3.8 2.8	C (0.5) (0.1)	C C 0.4 C	(0.
Indone Jordan Kosovo Lebano Lithuar Macao Malta	o on nia o (China)	c c c 3.5 c	c c c (0.1) c	c c c 3.4 c	c c (0.1) c	c c 3.4 2.8 m	c (0.1) (0.1) m	c c -0.2 c m	c c (0.1) c m	c c 3.4 c	C C (0.1) C C	c c 3.8 2.8 c	C C (0.5) (0.1) C	C C 0.4 C	(0.
Indone Jordan Kosovo Lebano Lithuar Macao Malta Moldov	on nia o (China) va	C C C C	C C (0.1) C C	C C C 3.4 C C	C C (0.1) C C	C C 3.4 2.8 m	C C (0.1) (0.1) m	c c -0.2 c m c	C C (0.1) C m C	C C 3.4 C C C	C C (0.1) C C	C C 3.8 2.8 C	C C (0.5) (0.1) C	C C 0.4 C C	(0.
Indone Jordan Kosovo Lebano Lithuar Macao Malta Moldov Monter	on nia o (China) va	3.5 c	C C (0.1) C C C C	C C 3.4 C C C	c (0.1) c c c c	C C 3.4 2.8 m C	c (0.1) (0.1) m c (0.2)	c c -0.2 c m c	c (0.1) c m c	C C 3.4 C C C C C 5.0	C C (0.1) C C C C	C C 3.8 2.8 C C C	C C (0.5) (0.1) C C	C C 0.4 C C C	
Indone Jordan Kosovo Lebano Lithuar Macao Malta Moldov Monter Peru	on nia o (China) va	c c c 3.5 c c c c	c c (0.1) c c c c	c c 3.4 c c c 5.0	C (0.1) C C C (0.1) (0.1)	C C 3.4 2.8 m C 5.0	c (0.1) (0.1) m c (0.2) (0.2)	c -0.2 c m c	C (0.1) C m C C (0.2)	C C C C C C 4.1	C (0.1) C C C (0.1) (0.1)	C C 3.8 2.8 C C C C 3.8	C (0.5) (0.1) C C C (0.1)	C C C C C -0.2	(0.
Indone Jordan Kosovo Lebano Lithuar Macao Malta Moldo Monter Peru Qatar	on nia o (China) va negro	C C C C C C C 4.3 5.3	c c (0.1) c c c c c (0.1)	c c 3.4 c c c 5.0 3.9 6.1	C (0.1) C C C C (0.1) (0.1) (0.1)	c c 3.4 2.8 m c 5.0 3.8 5.9	c (0.1) (0.1) m c (0.2) (0.2) (0.1)	c c -0.2 c m c c -0.5 0.6	C (0.1) C m C C (0.2) (0.2)	C C C C C C 5.0 4.1 5.5	C (0.1) C C C C (0.1) (0.1) (0.1)	C C 3.8 2.8 C C C 3.8 6.5	C (0.5) (0.1) C C C (0.1) (0.1)	C C C C C C C C C C C C C C C C C C C	(0.
Indone Jordan Kosovo Lebano Lithuar Macao Malta Moldov Montei Peru Qatar Roman	o on nia nia o (China) va negro	C C C C C C C C C C C C C C C C C C C	C C C (0.1) C C C C (0.1) (0.2) C	c c 3.4 c c c 5.0 3.9 6.1	C (0.1) C C C (0.1) (0.1) (0.1) C	c c 3.4 2.8 m c 5.0 3.8 5.9 c	C (0.1) (0.1) m C (0.2) (0.2) (0.1) C	c c -0.2 c m c c -0.5 0.6 c	c (0.1) c m c c (0.2) (0.2) c	c c 3.4 c c c c 5.0 4.1 5.5 c	C (0.1) C C C (0.1) (0.1) (0.1) C	C C 3.8 2.8 C C C C 3.8 6.5 C	C (0.5) (0.1) C C C (0.1) (0.1) C	C C C C C C C C C C C C C C C C C C C	(0.
Indone Jordan Kosovo Lebano Lithuar Macao Malta Moldov Monter Peru Qatar Roman Russia	o on nia o (China) ova negro	c c c 3.5 c c c c 4.3 5.3 c 5.4	C C (0.1) C C C C (0.1) (0.2) C (0.3)	c c 3.4 c c c 5.0 3.9 6.1 c	C (0.1) C C C (0.1) (0.1) (0.1) C (0.2)	c c 3.4 2.8 m c 5.0 3.8 5.9 c 4.6	c (0.1) (0.1) m c (0.2) (0.2) (0.1) c (0.1)	c c c -0.2 c m c c c -0.5 0.6 c c -0.8	c (0.1) c m c c (0.2) (0.2) c (0.3)	C C C S.0 4.1 5.5 C 4.8	C (0.1) C C (0.1) (0.1) (0.1) C (0.1)	C C S 3.8 C C C C S 3.8 C C C C C C C C C C C C C C C C C C C	C (0.5) (0.1) C C (0.1) (0.1) C C C (0.1) C C C C C C C C C C C C C C C C C C C	C C C C C C C C C C C C C C C C C C C	(0. (0.
Indone Jordan Kosovo Lebano Lithuar Macao Malta Moldov Monter Peru Qatar Roman Russia Singapo	o on nia o (China) ova negro nia	c c c 3.5 c c c c 4.3 5.3 c c 5.4 m	c c (0.1) c c c c (0.1) (0.2) c (0.3) m	c c c 3.4 c c c 5.0 3.9 6.1 c 4.7 m	c (0.1) c c c (0.1) (0.1) (0.1) c (0.2) m	c c 3.4 2.8 m c 5.0 3.8 5.9 c 4.6 5.5	c (0.1) (0.1) m c (0.2) (0.2) (0.1) c (0.1) (0.1)	c c -0.2 c m c c -0.5 0.6 c -0.8 m	c (0.1) c m c c (0.2) (0.2) c (0.3) m	C C C 3.4 C C C C 5.0 4.1 5.5 C 4.8 5.6	C (0.1) C C C (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1)	C C C 3.8 C C C C 3.8 6.5 C C C 5.5	C (0.5) (0.1) C C (0.1) (0.1) C C (0.1) (0.1) C C C (0.5)	C C C C C C C C C C C C C C C C C C C	(0. (0.
Indone Jordan Kosovo Lebano Lithuar Macao Malta Moldo Monter Peru Qatar Roman Russia Singapo	o on nia o (China) va negro nia sore se Taipei	c c c 3.5 c c c c 4.3 5.3 c 5.4	C C (0.1) C C C C (0.1) (0.2) C (0.3)	c c 3.4 c c c 5.0 3.9 6.1 c	C (0.1) C C C (0.1) (0.1) (0.1) C (0.2)	c c 3.4 2.8 m c 5.0 3.8 5.9 c 4.6	c (0.1) (0.1) m c (0.2) (0.2) (0.1) c (0.1)	c c c -0.2 c m c c c -0.5 0.6 c c -0.8	c (0.1) c m c c (0.2) (0.2) c (0.3)	C C C S.0 4.1 5.5 C 4.8	C (0.1) C C (0.1) (0.1) (0.1) C (0.1)	C C S 3.8 C C C C S 3.8 C C C C C C C C C C C C C C C C C C C	C (0.5) (0.1) C C (0.1) (0.1) C C C (0.1) C C C C C C C C C C C C C C C C C C C	C C C C C C C C C C C C C C C C C C C	(0. (0. (0.
Indone Jordan Kosovo Lebano Lithuar Macao Malta Moldov Monter Peru Qatar Roman Russia Singap Chines Thailan	o on nia o (China) va negro nia sore se Taipei	C C C C C C C C C C C C C C C C C C C	C C C (0.1) C C C C (0.1) (0.2) C C (0.3) m C	c c c 3.4 c c c c 5.0 3.9 6.1 c 4.7 m 2.9	C (0.1) C C C (0.1) (0.1) (0.1) C C (0.2) m (0.1)	c c 3.4 2.8 m c 5.0 3.8 5.9 c 4.6 5.5 3.2	c (0.1) (0.1) m c (0.2) (0.2) (0.1) c (0.1) (0.1) (0.1)	c c -0.2 c m c c -0.5 0.6 c -0.8 m c c	C (0.1) C m C (0.2) (0.2) C (0.3) m C	C C C C C C C C C C C C C C C C C C C	C (0.1) C C C (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1)	C C 3.8 2.8 C C C C 3.8 6.5 C C C C 5.5 2.5	C (0.5) (0.1) C C (0.1) (0.1) C C (0.5) (0.5) (0.1)	C C C C C C C C C C C C C C C C C C C	(0. (0. (0.
Indone Jordan Kosovo Lebano Lithuar Macao Malta Moldoo Montee Peru Qatar Roman Russia Singap Chines Trinida Tunisia	o on nia o (China) vva negro nia nore se Taipei nd ad and Tobago	C C C C C C C C C C C C C C C C C C C	c c c (0.1) c c c c c (0.1) (0.2) c c (0.3) m c c (0.2)	c c c c 3.4 c c c c 5.0 3.9 6.1 c c 4.7 m 2.9 5.4	C (0.1) C C (0.1) (0.1) (0.1) C (0.2) m (0.1) (0.1)	c c 3.4 2.8 m c 5.0 3.8 5.9 c 4.6 5.5 3.2 5.7	C (0.1) (0.1) m C (0.2) (0.2) (0.1) C (0.1) (0.1) (0.1) (0.1) (0.2)	c c -0.2 c m c c -0.5 0.6 c c -0.8 m c c 0.4 m c -0.2	C (0.1) C m C (0.2) (0.2) C (0.3) m C (0.3)	C C C C C C C C C C C C C C C C C C C	C (0.1) C C (0.1) (0.1) C (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1)	C C 3.8 2.8 C C C C 3.8 6.5 C C C 5.5 2.5 5.3	C (0.5) (0.1) C C C (0.1) (0.1) C C C (0.5) (0.1) (0.5) (0.1) (0.3)	C C C C C C C C C C C C C C C C C C C	(0. (0. (0. (0. (0.
Indone Jordan Kosovo Lebano Lithuar Macao Malta Moldov Montee Peru Qatar Roman Russia Singapo Chines Thailan Trinida Tunisia United	oon nia (China) vva negro nia ore se Taipei nd and Tobago a I Arab Emirates	c c c 3.5 c c c c 4.3 5.3 c c 5.4 m c c 5.3 c c 4.4 6.8	c c c (0.1) c c c c (0.1) (0.2) c c (0.3) m c (0.2) c c (0.3)	c c c 3.4 c c c 5.0 3.9 6.1 c 4.7 m 2.9 5.4 c 4.3 7.1	C C (0.1) C C C (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.2)	c c 3.4 2.8 m c 5.0 3.8 5.9 c 4.6 5.5 3.2 5.7 m 4.3 7.4	c (0.1) (0.1) m c (0.2) (0.2) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1)	c c -0.2 c m c c -0.5 0.6 c c -0.4 m c c 0.4 c m c 0.5 c 0.6 c c -0.8 c c -0.5 c c -0.8 c c 0.5 c c -0.5 c -0.5 c -0.5 c -0.5 c c -0.5 c c -0.5 c -0.5 c c -0.5 c -0	C C (0.1) C m C C (0.2) (0.2) C (0.3) m C C (0.3) m C C (0.3) C (0.3) m C C (0.3) m C	C C C S.0 4.1 5.5 C C 4.8 5.6 3.4 5.4 C 4.2 6.6 6	C C C C C C C C C C C C C C C C C C C	c c 3.8 2.8 c c c c 5.55 c c c c 4.6 7.6	C (0.5) (0.1) C C (0.1) (0.1) C C (0.5) (0.1) (0.3) C (1.0) (0.1) C C (1.0) (0.1)	C C C C C C C C C C C C C C C C C C C	(0. (0. (0. (0. (1.
Indone Jordan Kosovo Lebano Lithuar Macao Malta Moldov Monter Peru Qatar Roman Russia Singap Chines Thailar Trinida Tunisia United Urugua	oon nia to (China) ova negro nia ore se Taipei nd and and Tobago a d Arab Emirates	c c c 3.5 c c c c c c 5.4 m c c 5.3 c c 4.4 6.8 3.4	c c c (0.1) c c c c c (0.1) c c c c c c (0.1) (0.2) c c (0.3) m c c (0.2) c c (0.5) (0.3) (0.4)	c c c 3.4 c c c 5.0 3.9 6.1 c c 4.7 m 2.9 5.4 c 4.3 7.1 3.4	C C C (0.1) C C C C C (0.1) (0.1) C C (0.2) C (0.1) (0.1) C (0.2) C (0.1) C C C (0.1) C C C (0.1) C C C C C C C C C C C C C C C C C C C	c c 3.4 2.8 m c 5.0 3.8 5.9 c 4.6 5.5 3.2 5.7 m 4.3 7.4 3.1	c (0.1) (0.1) m c (0.2) (0.1) c (0.1) (0.1) (0.1) (0.1) (0.2) m (0.1) (0.1) (0.1) (0.1) (0.1) (0.1)	c c -0.2 c m c c -0.5 0.6 c c -0.8 m c c -0.4 m -0.2 -0.3	C (0.1)	C C C C C C C C C C C C C C C C C C C	C C C (0.1) C C C C (0.1) C C (0.1) (0.1) C (0.1) (0.1) C (0.1) (0.1) C C (0.1) (0.1) C C (0.1) (0.1) (0.1) C C (0.1) (0	c c 3.8 2.8 c c c 5.5 5.3 c 4.6 3.3	C C (0.5) (0.1) C C C (0.1) C C C (0.1) C C C (0.5) (0.1) (0.3) C C (1.0) (0.1) (0.1) (0.1)	C C C C C C C C C C C C C C C C C C C	(0. (0. (0. (0. (1. (0.
Indone Jordan Kosovo Lebano Lithuar Macao Malta Moldov Monter Peru Qatar Roman Russia Singap Chines Thailar Trinida Tunisia United Urugua Viet Na	o on nia o (China) va negro nia sore se Taipei nd ad and Tobago at I Arab Emirates ay	c c c 3.5 c c c c 4.3 5.3 c c 5.4 m c c 5.3 c c 4.4 6.8	c c c (0.1) c c c c (0.1) (0.2) c c (0.3) m c (0.2) c c (0.3)	c c c 3.4 c c c 5.0 3.9 6.1 c 4.7 m 2.9 5.4 c 4.3 7.1	C C (0.1) C C C (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.2)	c c 3.4 2.8 m c 5.0 3.8 5.9 c 4.6 5.5 3.2 5.7 m 4.3 7.4	c (0.1) (0.1) m c (0.2) (0.2) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1)	c c -0.2 c m c c -0.5 0.6 c c -0.8 m c c 0.4 m c 0.2 0.5	C C (0.1) C m C C (0.2) (0.2) C (0.3) m C C (0.3) m C C (0.3) C (0.3) m C C (0.3) m C	C C C S.0 4.1 5.5 C C 4.8 5.6 3.4 5.4 C 4.2 6.6 6	C C C C C C C C C C C C C C C C C C C	c c 3.8 2.8 c c c c 5.55 c c c c 4.6 7.6	C (0.5) (0.1) C C (0.1) (0.1) C C (0.5) (0.1) (0.3) C (1.0) (0.1) C C (1.0) (0.1)	C C C C C C C C C C C C C C C C C C C	(0. (0. (0. (0. (0.
Indone Jordan Kosovo Lebano Lithuar Macao Malta Moldov Monter Peru Qatar Roman Russia Singap Chines Thailar Trinida Tunisia United Urugua	o on	c c c 3.5 c c c c c c 5.4 m c c 5.3 c c 4.4 6.8 3.4	c c c (0.1) c c c c c (0.1) c c c c c c (0.1) (0.2) c c (0.3) m c c (0.2) c c (0.5) (0.3) (0.4)	c c c 3.4 c c c 5.0 3.9 6.1 c c 4.7 m 2.9 5.4 c 4.3 7.1 3.4	C C C (0.1) C C C C C (0.1) (0.1) C C (0.2) C (0.1) (0.1) C (0.2) C (0.1) C C C (0.1) C C C (0.1) C C C C C C C C C C C C C C C C C C C	c c 3.4 2.8 m c 5.0 3.8 5.9 c 4.6 5.5 3.2 5.7 m 4.3 7.4 3.1	c (0.1) (0.1) m c (0.2) (0.1) c (0.1) (0.1) (0.1) (0.1) (0.2) m (0.1) (0.1) (0.1) (0.1) (0.1) (0.1)	c c -0.2 c m c c -0.5 0.6 c c -0.8 m c c -0.4 m -0.2 -0.3	C (0.1)	C C C C C C C C C C C C C C C C C C C	C C C (0.1) C C C C (0.1) C C (0.1) (0.1) C (0.1) (0.1) C (0.1) (0.1) C C (0.1) (0.1) C C (0.1) (0.1) (0.1) C C (0.1) (0	c c 3.8 2.8 c c c 5.5 5.3 c 4.6 3.3	C C (0.5) (0.1) C C C (0.1) C C C (0.1) C C C (0.5) (0.1) (0.3) C C (1.0) (0.1) (0.1) (0.1)	C C C C C C C C C C C C C C C C C C C	(0. (0. (0. (0. (1.



[Part 3/3]

Table II.6.38 Time per week studying science after school¹, science performance and school characteristics

_			Average	time per w	eek spent	studying s	cience afte	r school (e.g. homew	ork, additi	onal instru	iction, pri	ivate study),	in hours	
				By educa	tion level			Befo and scl	re account hools' socio	ing for stud	dents' c profil ²		er accountii hools' socio		
		educ	econdary cation ED 2)	Upper se	econdary ation ED 3)	ISCED 3	- ISCED 2	Char the scie per hou in th per we studyin	nge in nce score r increase e time ek spent g science school	Explained in stu perfor	I variance udent mance ed x 100)	Cha the scie per hou in th per we studyin	nge in ence score ir increase te time eek spent ig science school	Explained in str perfor	d variance udent mance ed x 100)
		Hours	S.E.	Hours	S.E.	Dif.	S.E.	Score dif	S.E.	%	S.E.	Score dif	. S.E.	%	S.E.
Q	Australia	3.3	(0.0)	4.1	(0.1)	0.8	(0.1)	-3.6	(0.43)	1.1	(0.3)	-3.3	(0.38)	16.5	(1.2)
OECD	Austria	6.1	(0.8)	3.6	(0.1)	-2.5	(0.8)	-2.2	(0.35)	1.4	(0.5)	-1.5	(0.32)	31.4	(1.9)
0	Belgium	3.1	(0.1)	2.8	(0.0)	-0.3	(0.1)	-1.2	(0.56)	0.1	(0.1)	-1.3	(0.40)	31.9	(2.1)
	Canada Chile	3.8 4.4	(0.2)	4.5 3.6	(0.1)	0.7 -0.8	(0.2)	-2.0 -5.2	(0.30) (0.54)	0.8 3.8	(0.2)	-2.2 -4.2	(0.27)	12.0 29.0	(1.0)
	Czech Republic	2.6	(0.4)	2.6	(0.1)	0.0	(0.4)	-1.3	(0.63)	0.2	(0.0)	-1.4	(0.52)	32.5	(1.9)
	Denmark	4.4	(0.1)	5.9	(1.3)	1.4	(1.3)	-2.3	(0.35)	1.5	(0.4)	-2.2	(0.32)	12.3	(1.3)
	Estonia	3.4	(0.0)	2.7	(0.5)	-0.7	(0.5)	-4.1	(0.47)	2.1	(0.5)	-3.6	(0.44)	12.5	(1.3)
	Finland	2.0	(0.0)	С	С	С	С	-3.6	(0.74)	0.7	(0.3)	-3.7	(0.68)	10.9	(1.1)
	France	2.6	(0.1)	2.5	(0.0)	-0.1	(0.1)	0.2	(0.70)	0.0	(0.0)	-1.3	(0.50)	36.1	(2.0)
	Germany	1.7	(0.0)	1.4	(0.3)	-0.3	(0.3)	-0.4	(0.90)	0.0	(0.0)	-1.6	(0.71)	32.7	(2.0)
	Greece	3.9 4.4	(0.5)	4.8 2.8	(0.1)	0.9 -1.6	(0.5)	1.1 -2.2	(0.45) (0.74)	0.2	(0.2)	0.4 -1.3	(0.39) (0.49)	21.6 42.9	(2.6)
	Hungary Iceland	1.9	(0.4)	2.0 m	(0.1) m	-1.0 m	(0.4) m	-6.4	(0.85)	2.3	(0.4)	-6.1	(0.49)	7.5	(0.9)
	Ireland	3.1	(0.0)	2.1	(0.1)	-1.0	(0.1)	0.2	(0.54)	0.0	(0.0)	-0.2	(0.50)	14.7	(1.3)
	Israel	2.9	(0.2)	2.7	(0.1)	-0.2	(0.2)	-4.0	(0.73)	1.9	(0.7)	-2.0	(0.55)	23.6	(2.2)
	Italy	3.1	(0.3)	4.1	(0.1)	1.0	(0.4)	2.3	(0.58)	0.8	(0.4)	0.5	(0.47)	22.1	(2.2)
	Japan	m	m	2.0	(0.0)	m	m	-2.1	(0.63)	0.3	(0.2)	-2.6	(0.50)	27.8	(2.3)
	Korea	3.2	(0.3)	2.5	(0.1)	-0.8	(0.3)	2.4	(0.59)	0.6	(0.3)	0.5	(0.47)	17.1	(1.9)
	Latvia Luxembourg	3.4 2.9	(0.1)	2.8	(0.2)	-0.6 0.0	(0.2)	-4.4 -3.1	(0.51) (0.38)	2.9	(0.7)	-4.2 -2.5	(0.48) (0.32)	15.7 35.4	(1.5)
	Mexico	4.9	(0.1)	4.1	(0.1)	-0.7	(0.1)	-1.6	(0.36)	0.8	(0.3)	-1.1	(0.32)	17.0	(2.0)
	Netherlands	1.6	(0.1)	2.0	(0.1)	0.4	(0.1)	5.7	(0.77)	2.2	(0.6)	2.6	(0.66)	35.7	(3.2)
	New Zealand	3.1	(0.2)	3.6	(0.1)	0.5	(0.2)	-3.5	(0.69)	1.1	(0.4)	-3.4	(0.57)	19.5	(1.5)
	Norway	3.0	(0.0)	С	С	С	С	-4.7	(0.62)	1.8	(0.5)	-4.6	(0.62)	9.6	(1.1)
	Poland	3.1	(0.1)	С	С	С	C	1.2	(0.58)	0.1	(0.1)	0.2	(0.54)	16.2	(1.6)
	Portugal	3.2	(0.1)	3.1	(0.1)	-0.1	(0.1)	3.3	(0.42)	2.2	(0.6)	2.5	(0.33)	20.6	(2.0)
	Slovak Republic	3.3 2.9	(0.1)	2.8	(0.1)	-0.5	(0.1)	-0.4	(0.53)	0.0	(0.1)	-0.7	(0.49)	27.2	(1.9)
	Slovenia Spain	3.4	(0.3)	3.0 c	(0.1) c	0.2 c	(0.3) c	-0.3 2.5	(0.60)	0.0	(0.1)	-1.9 1.8	(0.49) (0.46)	36.7 14.3	(1.4)
	Sweden	2.6	(0.0)	2.8	(0.6)	0.2	(0.6)	-4.2	(0.71)	1.3	(0.4)	-4.1	(0.44)	16.9	(1.6)
	Switzerland	2.0	(0.1)	2.3	(0.1)	0.3	(0.1)	-5.7	(0.82)	2.0	(0.6)	-6.4	(0.70)	28.7	(2.0)
	Turkey	4.2	(0.6)	4.7	(0.1)	0.5	(0.6)	1.0	(0.61)	0.2	(0.3)	0.3	(0.40)	26.4	(4.1)
	United Kingdom	3.5	(0.7)	3.7	(0.1)	0.2	(0.7)	-1.2	(0.57)	0.1	(0.1)	-1.4	(0.43)	17.3	(1.5)
	United States	4.6	(0.2)	4.4	(0.1)	-0.1	(0.2)	-2.0	(0.54)	0.6	(0.3)	-1.8	(0.47)	14.9	(1.5)
_	OECD average	3.3	(0.0)	3.2	(0.1)	-0.1	(0.1)	-1.5	(0.10)	1.0	(0.1)	-1.8	(0.09)	22.5	(0.3)
Partners	Albania Algeria	C C	C C	C C	C C	C	C C	m m	m m	m m	m m	m m	m m	m m	m m
rtr	Brazil	5.5	(0.1)	4.0	(0.1)	-1.5	(0.2)	-2.7	(0.32)	1.5	(0.4)	-2.9	(0.27)	26.3	(2.2)
9	B-S-J-G (China)	4.6	(0.1)	4.1	(0.2)	-0.5	(0.2)	1.7	(0.42)	0.6	(0.3)	0.5	(0.32)	35.0	(3.1)
	Bulgaria	4.6	(0.5)	3.8	(0.1)	-0.8	(0.5)	-2.8	(0.47)	1.1	(0.4)	-1.7	(0.33)	37.6	(2.8)
	CABA (Argentina)	C 4.2	(O 1)	C 2.4	(O 1)	C	(O 1)	m	m (0.42)	m	m	m	(0.27)	m	m
	Colombia Costa Rica	4.2 3.8	(0.1)	3.4 4.1	(0.1)	-0.8 0.3	(0.1)	-3.1 -0.8	(0.42)	1.9 0.2	(0.5)	-2.3 -1.1	(0.37)	22.5 22.6	(2.4)
	Croatia	C C	(U.1)	5.8	(0.1)	0.5 C	(U.1)	2.4	(0.34)	3.0	(0.2)	0.6	(0.24)	26.8	(2.1)
	Cyprus*	3.4	(0.2)	3.3	(0.1)	-0.1	(0.2)	-2.4	(0.50)	0.9	(0.3)	-3.2	(0.45)	17.4	(1.1)
	Dominican Republic	5.4	(0.4)	5.2	(0.1)	-0.2	(0.4)	-1.3	(0.35)	0.6	(0.3)	-0.7	(0.32)	27.1	(3.0)
	FYROM	С	С	С	С	С	С	m	m	m	m	m	m	m	m
	Georgia	2 O	(O 1)	2 Q	(O 1)	C 0.1	(O 1)	m	(0.25)	1 2	(O, 4)	m 12	(0.26)	12.1	(1.0)
	Hong Kong (China) Indonesia	3.0 c	(0.1) C	2.9 c	(0.1)	-0.1	(0.1) c	2.2 m	(0.35) m	1.2 m	(0.4) m	1.3 m	(0.36) m	13.1 m	(1.9) m
	Jordan	c	C	m	m	m	m	m	m	m	m	m	m	m	m
			-				С				m	m	m	m	m
	Kosovo	C	C	С	C	С	C	m	m	m					100
	Kosovo Lebanon	c c	С	С	С	С	С	m	m	m	m	m	m	m	m
	Kosovo Lebanon Lithuania	c c 3.4	(0.1)	C C	C C	C C	C C	m -2.1	m (0.43)	m 0.6	m (0.3)	m -2.1	m (0.38)	m 22.0	(2.4)
	Kosovo Lebanon Lithuania Macao (China)	C C 3.4 2.6	(0.1) (0.1)	c c 2.9	C C (0.1)	C C 0.3	c c (0.1)	m -2.1 2.2	m (0.43) (0.31)	m 0.6 1.0	(0.3) (0.3)	m -2.1 1.9	(0.38) (0.32)	22.0 2.6	(2.4) (0.5)
	Kosovo Lebanon Lithuania	2.6 C	(0.1) (0.1) c	c c 2.9 c	C C (0.1) C	C C 0.3 C	C C (0.1) C	-2.1 2.2 m	(0.43) (0.31) m	m 0.6 1.0 m	(0.3) (0.3) m	m -2.1 1.9 m	(0.38) (0.32) m	22.0 2.6 m	(2.4) (0.5) m
	Kosovo Lebanon Lithuania Macao (China) Malta	C C 3.4 2.6	(0.1) (0.1)	c c 2.9	C C (0.1)	C C 0.3	c c (0.1)	m -2.1 2.2	m (0.43) (0.31)	m 0.6 1.0	(0.3) (0.3)	m -2.1 1.9	(0.38) (0.32)	m 22.0 2.6 m m 16.2	(2.4) (0.5)
	Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru	C C 3.4 2.6 C C C 5.4 4.4	(0.1) (0.1) (0.1) c c (0.3) (0.1)	c 2.9 c c 5.0	C (0.1) C C (0.1) (0.1)	0.3 c c -0.5	C (0.1) C C (0.3) (0.1)	m -2.1 2.2 m m -0.1 -2.3	m (0.43) (0.31) m m (0.27) (0.42)	m 0.6 1.0 m m 0.0	m (0.3) (0.3) m m (0.0) (0.3)	m -2.1 1.9 m m -0.7 -1.5	m (0.38) (0.32) m m (0.26) (0.32)	m 22.0 2.6 m m 16.2 27.7	(2.4) (0.5) m m (1.0) (2.1)
	Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar	C C 3.4 2.6 C C C 5.4 4.4 5.7	(0.1) (0.1) c c (0.3) (0.1) (0.1)	c 2.9 c c 5.0 3.9 6.0	C (0.1) C C (0.1) (0.1) (0.1)	0.3 c c -0.5 -0.5 0.4	C (0.1) C C (0.3) (0.1) (0.1)	m -2.1 2.2 m m -0.1 -2.3 1.6	m (0.43) (0.31) m m (0.27) (0.42) (0.22)	m 0.6 1.0 m m 0.0 0.9	m (0.3) (0.3) m m (0.0) (0.3) (0.2)	m -2.1 1.9 m m -0.7 -1.5	m (0.38) (0.32) m m (0.26) (0.32) (0.21)	m 22.0 2.6 m m 16.2 27.7 14.2	(2.4) (0.5) m m (1.0) (2.1) (0.7)
	Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania	c c 3.4 2.6 c c 5.4 4.4 5.7 c	C (0.1) (0.1) C C (0.3) (0.1) (0.1)	c c 2.9 c c 5.0 3.9 6.0 m	C (0.1) C C (0.1) (0.1) (0.1) m	0.3 c c -0.5 -0.5 0.4	C (0.1) C C (0.3) (0.1) (0.1) m	m -2.1 2.2 m m -0.1 -2.3 1.6 m	m (0.43) (0.31) m m (0.27) (0.42) (0.22) m	m 0.6 1.0 m m 0.0 0.9 0.8 m	m (0.3) (0.3) m m (0.0) (0.3) (0.2) m	m -2.1 1.9 m m -0.7 -1.5 1.8 m	m (0.38) (0.32) m m (0.26) (0.32) (0.21) m	m 22.0 2.6 m m 16.2 27.7 14.2 m	(2.4) (0.5) m m (1.0) (2.1) (0.7) m
	Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia	c c 3.4 2.6 c c 5.4 4.4 5.7 c 4.7	C (0.1) (0.1) C C (0.3) (0.1) C (0.1) C (0.1) C	c c 2.9 c c 5.0 3.9 6.0 m 4.8	C (0.1) C C (0.1) (0.1) (0.1) m (0.2)	c c c c -0.5 -0.5 0.4 m 0.0	C (0.1) C C (0.3) (0.1) (0.1) m (0.2)	m -2.1 2.2 m m -0.1 -2.3 1.6 m -0.5	m (0.43) (0.31) m m (0.27) (0.42) (0.22) m (0.35)	m 0.6 1.0 m m 0.0 0.9 0.8 m 0.1	m (0.3) (0.3) m m (0.0) (0.3) (0.2) m (0.1)	m -2.1 1.9 m m -0.7 -1.5 1.8 m -0.5	m (0.38) (0.32) m m (0.26) (0.32) (0.32) (0.31) m (0.34)	m 22.0 2.6 m m 16.2 27.7 14.2 m 10.0	(2.4) (0.5) m m (1.0) (2.1) (0.7) m (1.8)
	Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore	C C 3.4 2.6 C C C 5.4 4.4 5.7 C 4.7 4.5	C (0.1) (0.1) C C (0.3) (0.1) (0.1) C C (0.1) (0.1) C C (0.1) (0.4)	c 2.9 c 5.0 3.9 6.0 m 4.8 5.6	C (0.1) C (0.1) (0.1) (0.1) m (0.2) (0.1)	C C C C C C C C C C C C C C C C C C C	C (0.1) C C (0.3) (0.1) (0.1) m (0.2) (0.4)	m -2.1 2.2 m m -0.1 -2.3 1.6 m -0.5 4.6	m (0.43) (0.31) m m (0.27) (0.42) (0.22) m (0.35) (0.39)	m 0.6 1.0 m m 0.0 0.9 0.8 m 0.1 3.4	m (0.3) (0.3) m m (0.0) (0.3) (0.2) m (0.1) (0.6)	m -2.1 1.9 m m -0.7 -1.5 1.8 m -0.5 2.9	m (0.38) (0.32) m m (0.26) (0.32) (0.21) m (0.34) (0.36)	m 22.0 2.6 m m 16.2 27.7 14.2 m 10.0 27.5	(2.4) (0.5) m m (1.0) (2.1) (0.7) m (1.8) (1.6)
	Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia	c c 3.4 2.6 c c 5.4 4.4 5.7 c 4.7	C (0.1) (0.1) C C (0.3) (0.1) C (0.1) C (0.1) C	c c 2.9 c c 5.0 3.9 6.0 m 4.8	C (0.1) C C (0.1) (0.1) (0.1) m (0.2)	c c c c -0.5 -0.5 0.4 m 0.0	C (0.1) C C (0.3) (0.1) (0.1) m (0.2)	m -2.1 2.2 m m -0.1 -2.3 1.6 m -0.5	m (0.43) (0.31) m m (0.27) (0.42) (0.22) m (0.35)	m 0.6 1.0 m m 0.0 0.9 0.8 m 0.1	m (0.3) (0.3) m m (0.0) (0.3) (0.2) m (0.1)	m -2.1 1.9 m m -0.7 -1.5 1.8 m -0.5	m (0.38) (0.32) m m (0.26) (0.32) (0.32) (0.31) m (0.34)	m 22.0 2.6 m m 16.2 27.7 14.2 m 10.0	(2.4) (0.5) m m (1.0) (2.1) (0.7) m (1.8)
	Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	C C 3.4 2.6 C C C 5.4 4.4 5.7 C 4.7 4.5 4.0 4.8 C	C (0.1) (0.1) C C C (0.3) (0.1) C C (0.1) (0.1) C C (0.1) (0.4) (0.1) (0.2) C C	c 2.9 c c 5.0 3.9 6.0 m 4.8 5.6 2.6 5.6 c	C (0.1) C (0.1) (0.1) m (0.2) (0.1) (0.1) (0.1) c (0.1) c (0.1)	C C C C C C C C C C C C C C C C C C C	C (0.1) C C (0.3) (0.1) (0.1) (0.1) m (0.2) (0.4) (0.1) (0.2)	m -2.1 2.2 m m -0.1 -2.3 1.6 m -0.5 4.6 4.2 0.4 m	m (0.43) (0.31) m m (0.27) (0.42) (0.22) m (0.35) (0.39) (0.32) (0.36) m	m 0.6 1.0 m m 0.0 0.9 0.8 m 0.1 3.4 3.2 0.1 m	m (0.3) (0.3) m m (0.0) (0.3) (0.2) m (0.1) (0.6) (0.4) (0.1) m	m -2.1 1.9 m m -0.7 -1.5 1.8 m -0.5 2.9 1.9 0.3 m	m (0.38) (0.32) m m (0.26) (0.32) (0.21) m (0.34) (0.36) (0.29) (0.32) m	m 22.0 2.6 m m 16.2 27.7 14.2 m 10.0 27.5 28.3 19.4 m	(2.4) (0.5) m m (1.0) (2.1) (0.7) m (1.8) (1.6) (2.5) (3.2) m
	Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	C C 3.4 2.6 C C C 5.4 4.4 5.7 C C 4.7 4.5 4.0 4.8 C C 4.7	C (0.1) (0.1) C C (0.3) (0.1) C C (0.1) (0.1) C C (0.1) (0.4) (0.1) (0.2) C (0.2)	c 2.9 c c 5.0 3.9 6.0 m 4.8 5.6 2.6 5.6 c 4.1	C (0.1) C (0.1) (0.1) (0.1) (0.1) m (0.2) (0.1) (0.1) (0.1) c (0.1)	C C C C C C C C C C C C C C C C C C C	C (0.1) C C (0.3) (0.1) (0.1) m (0.2) (0.4) (0.1) (0.2) C (0.2)	m -2.1 2.2 m m -0.1 -2.3 1.6 m -0.5 4.6 4.2 0.4 m -1.7	m (0.43) (0.31) m m (0.27) (0.42) (0.22) m (0.35) (0.39) (0.32) (0.36) m (0.31)	m 0.6 1.0 m m 0.0 0.9 0.8 m 0.1 3.4 3.2 0.1 m 1.2	m (0.3) (0.3) m m (0.0) (0.3) (0.2) m (0.1) (0.6) (0.4) (0.1) m (0.4)	m -2.1 1.9 m m -0.7 -1.5 1.8 m -0.5 2.9 1.9 0.3 m -1.5	m (0.38) (0.32) m m (0.26) (0.32) (0.21) m (0.34) (0.36) (0.29) (0.32) m (0.27)	m 22.0 2.6 m m 16.2 27.7 14.2 m 10.0 27.5 28.3 19.4 m 21.2	(2.4) (0.5) m m (1.0) (2.1) (0.7) m (1.8) (1.6) (2.5) (3.2) m (3.4)
	Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	C C C 3.4 2.6 C C C C C C C C C C C C C C C C C C C	C (0.1) (0.1) (0.1) C C (0.1) (0.1) C (0.1) (0.1) C (0.1) (0.2) C (0.2) (0.2)	c c 2.9 c c 5.0 3.9 6.0 m 4.8 5.6 c c 4.1 7.4	C (0.1) C (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1)	C C C O.3 C C C C C C C C C C C C C C C C C C C	C (0.1) C (0.3) (0.1) (0.1) m (0.2) (0.4) (0.1) (0.2) C (0.2) (0.2)	m -2.1 2.2 m m -0.1 -2.3 1.6 m -0.5 4.6 4.2 0.4 m -1.7 2.8	m (0.43) (0.31) m m (0.27) (0.42) (0.22) m (0.35) (0.39) (0.32) (0.36) m (0.31) (0.26)	m 0.6 1.0 m m 0.0 0.9 0.8 m 0.1 3.4 3.2 0.1 m 1.2 2.3	m (0.3) (0.3) m m (0.0) (0.3) (0.2) m (0.1) (0.6) (0.4) (0.1) m (0.4) (0.4)	m -2.1 1.9 m m -0.7 -1.5 1.8 m -0.5 2.9 1.9 0.3 m -1.5 2.7	m (0.38) (0.32) m m (0.26) (0.32) (0.21) m (0.34) (0.36) (0.29) (0.32) m (0.27) (0.23)	m 22.0 2.6 m m 16.2 27.7 14.2 m 10.0 27.5 28.3 19.4 m 21.2 16.6	(2.4) (0.5) m (1.0) (2.1) (0.7) m (1.8) (1.6) (2.5) (3.2) m (3.4) (1.6)
	Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	c c 3.4 2.6 c c 5.4 4.4 5.7 c 4.7 4.5 4.0 4.8 c 4.7 5.7 5.7 3.5	C (0.1) (0.1) C C (0.3) (0.1) (0.1) C C (0.1) (0.4) (0.1) (0.2) C (0.2) (0.2) (0.1)	c c 2.9 c c 5.0 3.9 6.0 m 4.8 5.6 c c 4.1 7.4 3.1	C C C (0.1) C C C (0.1) C C C (0.1) (0.1) m (0.2) (0.1) C (0.1) C C (0.1) (0.1) C C (0.1)	C C C C C C C C C C C C C C C C C C C	C (0.1) C (0.3) (0.1) (0.1) m (0.2) (0.4) (0.1) (0.2) (0.2) (0.2) (0.2) (0.2)	m -2.1 2.2 m m -0.1 -2.3 1.6 m -0.5 4.6 4.2 0.4 m -1.7 2.8 -1.7	m (0.43) (0.31) m m (0.27) (0.42) (0.22) m (0.35) (0.39) (0.32) (0.36) m (0.31) (0.26) (0.43)	m 0.6 1.0 m m 0.0 0.9 0.8 m 0.1 3.4 2 0.1 m 1.2 2.3 0.5	m (0.3) (0.3) m m (0.0) (0.3) (0.2) m (0.1) (0.6) (0.4) (0.1) m (0.4) (0.4) (0.4) (0.2)	m -2.1 1.9 m m -0.7 -1.5 1.8 m -0.5 2.9 0.3 m -1.5 2.7 -1.5	m (0.38) (0.32) m m (0.26) (0.32) (0.21) m (0.36) (0.39) (0.32) m (0.27) (0.23) (0.35)	m 22.0 2.6 m m 16.2 27.7 14.2 m 10.0 27.5 28.3 19.4 m 21.2 16.6 26.2	(2.4) (0.5) m (1.0) (2.1) (0.7) m (1.6) (2.5) (3.2) m (3.4) (1.6) (2.0)
	Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	C C C C C C C C C C C C C C C C C C C	C (0.1) (0.1) C C (0.2) (0.1) (0.1) C C (0.2) (0.2) (0.1) C C (0.2) (0.1) C C (0.2) (0.1) C C (0.2) (0.1) C C (0.1) C C (0.1) C C (0.2) (0	c c 2.9 c c 5.0 3.9 6.0 m 4.8 5.6 2.6 c 4.1 7.4 3.1 c	C C C (0.1) C C (0.1) C C C C C C C C C C C C C C C C C C C	C C C C C C C C C C C C C C C C C C C	C C C (0.1) C C (0.2) C (0.2) C C C C C C C C C C C C C C C C C C C	m -2.1 2.2 m m -0.1 -2.3 1.6 m -0.5 4.6 4.2 0.4 m -1.7 2.8 -1.7 m	(0.43) (0.31) m m (0.27) (0.42) (0.22) m (0.35) (0.39) (0.32) (0.36) m (0.31) (0.26) (0.43) m	m 0.6 1.0 m m 0.0 0.9 0.8 m 0.1 3.4 3.2 0.1 m 1.2 2.3 0.5 m	m (0.3) (0.3) m m (0.0) (0.3) (0.2) m (0.1) (0.6) (0.4) (0.4) (0.4) (0.2) m (0.4) (0.2) m	m -2.1 1.9 m m -0.7 -1.5 1.8 m -0.5 2.9 0.3 m -1.5 2.7 -1.5 m	m (0.38) (0.32) m m (0.26) (0.32) (0.21) m (0.36) (0.29) (0.32) (0.27) (0.23) (0.27) (0.23) m (0.35) m	m 22.0 2.6 m m 16.2 27.7 14.2 m 10.0 27.5 28.3 19.4 m 21.2 16.6 26.2 m	(2.4) (0.5) m (1.0) (2.1) (0.7) m (1.8) (1.6) (2.5) (3.2) m (3.4) (1.6) (2.0) m
	Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	c c 3.4 2.6 c c 5.4 4.4 5.7 c 4.7 4.5 4.0 4.8 c 4.7 5.7 5.7 3.5	C (0.1) (0.1) C C (0.3) (0.1) (0.1) C C (0.1) (0.4) (0.1) (0.2) C (0.2) (0.2) (0.1)	c c 2.9 c c 5.0 3.9 6.0 m 4.8 5.6 c c 4.1 7.4 3.1	C C C (0.1) C C C (0.1) C C C (0.1) (0.1) m (0.2) (0.1) C (0.1) C C (0.1) (0.1) C C (0.1)	C C C C C C C C C C C C C C C C C C C	C (0.1) C (0.3) (0.1) (0.1) m (0.2) (0.4) (0.1) (0.2) (0.2) (0.2) (0.2) (0.2)	m -2.1 2.2 m m -0.1 -2.3 1.6 m -0.5 4.6 4.2 0.4 m -1.7 2.8 -1.7	m (0.43) (0.31) m m (0.27) (0.42) (0.22) m (0.35) (0.39) (0.32) (0.36) m (0.31) (0.26) (0.43)	m 0.6 1.0 m m 0.0 0.9 0.8 m 0.1 3.4 2 0.1 m 1.2 2.3 0.5	m (0.3) (0.3) m m (0.0) (0.3) (0.2) m (0.1) (0.6) (0.4) (0.1) m (0.4) (0.4) (0.4) (0.2)	m -2.1 1.9 m m -0.7 -1.5 1.8 m -0.5 2.9 0.3 m -1.5 2.7 -1.5	m (0.38) (0.32) m m (0.26) (0.32) (0.21) m (0.36) (0.39) (0.32) m (0.27) (0.23) (0.35)	m 22.0 2.6 m m 16.2 27.7 14.2 m 10.0 27.5 28.3 19.4 m 21.2 16.6 26.2	(2.4) (0.5) m (1.0) (2.1) (0.7) m (1.8) (1.6) (2.5) (3.2) m (3.4) (1.6) (2.0)



[Part 1/1]

Table II.6.42 Schools providing study help

		Percentage of students in schools where	the following study help is provide	ed
	Room(s) where student	s can do their homework	Staff provides hel	lp with homework
	%	S.E.	%	S.E.
Australia	86.9	(1.2)	89.9	(1.3)
Austria	66.0	(3.5)	27.0	(2.7)
Belgium	86.6	(2.1)	47.2	(3.0)
Canada	90.0	(2.0)	87.9	(1.6)
Chile	77.4	(3.4)	35.0	(3.7)
Czech Republic	53.4	(3.2)	58.2	(3.2)
Denmark	92.6	(1.9)	95.7	(1.5)
Estonia	62.4	(2.8)	55.2	(2.8)
Finland	52.3	(4.0)	62.2	(3.9)
France	90.8	(2.1)	59.1	(3.0)
Germany	70.4	(3.1)	48.0	(3.6)
Greece	36.5	(3.9)	46.3	(4.1)
Hungary	63.6	(3.0)	57.8	(3.4)
Iceland	73.9	(0.2)	72.1	(0.3)
Ireland	86.5	(2.6)	44.9	(3.7)
Israel	51.3	(3.7)	58.7	(4.1)
Italy	52.7	(3.3)	28.0	(3.1)
Japan	95.8	(1.3)	80.0	(2.9)
Korea	81.7	(3.1)	41.2	(4.3)
Latvia	66.0 98.5	(2.6)	68.6 94.3	(2.8)
Luxembourg	98.5 44.3	(0.0)		(0.1)
Mexico Netherlands	44.3 84.0	(3.4) (2.7)	34.0 54.2	(2.8)
New Zealand	92.1	(1.8)	83.2	(2.7)
Norway	63.8	(3.2)	40.0	(3.7)
Poland	77.1	(3.3)	68.6	(3.8)
Portugal	83.2	(2.8)	69.5	(3.2)
Slovak Republic	41.5	(3.3)	55.3	(3.5)
Slovenia	85.4	(0.2)	48.7	(0.6)
Spain	68.6	(3.7)	35.2	(3.2)
Sweden	90.4	(2.1)	91.0	(2.0)
Switzerland	77.6	(3.0)	49.3	(3.7)
Turkey	51.3	(4.4)	37.0	(3.8)
United Kingdom	96.9	(1.0)	93.3	(1.8)
United States	80.7	(3.2)	92.0	(2.0)
OECD average	73.5	(0.5)	60.3	(0.5)
		(0.5)		(0.5)
Albania	30.3	(3.4)	56.1	(3.7)
Algeria	58.0	(3.9)	64.9	(3.8)
Brazil	60.1	(3.1)	18.0	(2.5)
B-S-J-G (China)	36.0	(3.6)	70.1	(3.9)
Bulgaria	37.4	(3.3)	27.4	(2.7)
CABA (Argentina)	39.9	(6.4)	40.5	(6.4)
Colombia	46.7	(3.7)	18.8	(2.4)
Costa Rica	51.3	(4.3)	27.3	(2.9)
Croatia	60.7	(3.8)	15.2	(2.5)
Cyprus*	39.0 43.5	(0.1)	47.4	(0.1)
Dominican Republic FYROM	4 3.3	(3.6)		
		(3.6)	35.8 59.3	(4.2)
	38.1	(0.1)	59.3	(0.2)
Georgia	38.1 43.2	(0.1) (3.7)	59.3 66.8	(0.2) (3.0)
Georgia Hong Kong (China)	38.1 43.2 88.0	(0.1) (3.7) (3.3)	59.3 66.8 76.3	(0.2) (3.0) (3.9)
Georgia Hong Kong (China) Indonesia	38.1 43.2 88.0 42.1	(0.1) (3.7) (3.3) (3.3)	59.3 66.8 76.3 48.4	(0.2) (3.0) (3.9) (3.7)
Georgia Hong Kong (China) Indonesia Jordan	38.1 43.2 88.0 42.1 18.7	(0.1) (3.7) (3.3) (3.3) (3.1)	59.3 66.8 76.3 48.4 67.1	(0.2) (3.0) (3.9) (3.7) (3.2)
Georgia Hong Kong (China) Indonesia Jordan Kosovo	38.1 43.2 88.0 42.1 18.7 19.0	(0.1) (3.7) (3.3) (3.3) (3.1) (1.2)	59.3 66.8 76.3 48.4 67.1 28.9	(0.2) (3.0) (3.9) (3.7) (3.2) (1.2)
Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon	38.1 43.2 88.0 42.1 18.7	(0.1) (3.7) (3.3) (3.3) (3.1)	59.3 66.8 76.3 48.4 67.1	(0.2) (3.0) (3.9) (3.7) (3.2) (1.2) (2.8)
Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania	38.1 43.2 88.0 42.1 18.7 19.0 27.5	(0.1) (3.7) (3.3) (3.3) (3.1) (1.2) (3.3)	59.3 66.8 76.3 48.4 67.1 28.9 24.8	(0.2) (3.0) (3.9) (3.7) (3.2) (1.2)
Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China)	38.1 43.2 88.0 42.1 18.7 19.0 27.5 78.5	(0.1) (3.7) (3.3) (3.3) (3.1) (1.2) (3.3) (2.4)	59.3 66.8 76.3 48.4 67.1 28.9 24.8 73.6	(0.2) (3.0) (3.9) (3.7) (3.2) (1.2) (2.8) (2.8)
Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta	38.1 43.2 88.0 42.1 18.7 19.0 27.5 78.5 91.8	(0.1) (3.7) (3.3) (3.3) (3.1) (1.2) (3.3) (2.4) (0.0)	59.3 66.8 76.3 48.4 67.1 28.9 24.8 73.6 58.4	(0.2) (3.0) (3.9) (3.7) (3.2) (1.2) (2.8) (2.8) (0.1)
Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova	38.1 43.2 88.0 42.1 18.7 19.0 27.5 78.5 91.8 37.4	(0.1) (3.7) (3.3) (3.3) (3.1) (1.2) (3.3) (2.4) (0.0) (0.1)	59.3 66.8 76.3 48.4 67.1 28.9 24.8 73.6 58.4 32.6	(0.2) (3.0) (3.9) (3.7) (3.2) (1.2) (2.8) (0.1) (0.1)
Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro	38.1 43.2 88.0 42.1 18.7 19.0 27.5 78.5 91.8 37.4 56.1	(0.1) (3.7) (3.3) (3.3) (3.1) (1.2) (3.3) (2.4) (0.0) (0.1) (3.5)	59.3 66.8 76.3 48.4 67.1 28.9 24.8 73.6 58.4 32.6 47.3	(0.2) (3.0) (3.9) (3.7) (3.2) (1.2) (2.8) (2.8) (0.1) (0.1) (3.6)
Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru	38.1 43.2 88.0 42.1 18.7 19.0 27.5 78.5 91.8 37.4 56.1 39.9	(0.1) (3.7) (3.3) (3.3) (3.1) (1.2) (3.3) (2.4) (0.0) (0.1) (3.5) (0.2)	59.3 66.8 76.3 48.4 67.1 28.9 24.8 73.6 58.4 32.6 47.3	(0.2) (3.0) (3.9) (3.7) (3.2) (1.2) (2.8) (2.8) (0.1) (0.1) (3.6) (0.5)
Georgia Hong Kong (China) Indonesia Iordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania	38.1 43.2 88.0 42.1 18.7 19.0 27.5 78.5 91.8 37.4 56.1 39.9 64.7 32.3	(0.1) (3.7) (3.3) (3.3) (3.1) (1.2) (3.3) (2.4) (0.0) (0.1) (3.5) (0.2) (2.8) (0.1) (4.1)	59.3 66.8 76.3 48.4 67.1 28.9 24.8 73.6 58.4 32.6 47.3 15.0 30.6 78.6 60.4	(0.2) (3.0) (3.9) (3.7) (3.2) (1.2) (2.8) (0.1) (0.1) (3.6) (0.5) (2.6) (0.1) (4.4)
Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia	38.1 43.2 88.0 42.1 18.7 19.0 27.5 78.5 91.8 37.4 56.1 39.9 64.7 32.3 62.1 48.6	(0.1) (3.7) (3.3) (3.3) (3.1) (1.2) (3.3) (2.4) (0.0) (0.1) (3.5) (0.2) (2.8) (0.1) (4.1) (4.5)	59.3 66.8 76.3 48.4 67.1 28.9 24.8 73.6 58.4 32.6 47.3 15.0 30.6 78.6 60.4	(0.2) (3.0) (3.9) (3.7) (3.2) (1.2) (2.8) (0.1) (0.1) (3.6) (0.5) (2.6) (0.1)
Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore	38.1 43.2 88.0 42.1 18.7 19.0 27.5 78.5 91.8 37.4 56.1 39.9 64.7 32.3 62.1 48.6 94.1	(0.1) (3.7) (3.3) (3.3) (3.1) (1.2) (3.3) (2.4) (0.0) (0.1) (3.5) (0.2) (2.8) (0.1) (4.1) (4.5) (0.1)	59.3 66.8 76.3 48.4 67.1 28.9 24.8 73.6 58.4 32.6 47.3 15.0 30.6 78.6 60.4 67.9	(0.2) (3.0) (3.9) (3.7) (3.2) (1.2) (2.8) (2.8) (0.1) (0.1) (0.1) (3.6) (0.5) (2.6) (0.1) (4.4) (4.0) (1.6)
Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei	38.1 43.2 88.0 42.1 18.7 19.0 27.5 78.5 91.8 37.4 56.1 39.9 64.7 32.3 62.1 48.6 94.1 95.1	(0.1) (3.7) (3.3) (3.3) (3.1) (1.2) (3.3) (2.4) (0.0) (0.1) (3.5) (0.2) (2.8) (0.1) (4.1) (4.5) (0.1) (1.5)	59.3 66.8 76.3 48.4 67.1 28.9 24.8 73.6 58.4 32.6 47.3 15.0 30.6 78.6 60.4 67.9 85.9	(0.2) (3.0) (3.9) (3.7) (3.2) (1.2) (2.8) (2.8) (0.1) (0.1) (3.6) (0.5) (2.6) (0.1) (4.4) (4.0) (1.6) (3.6)
Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand	38.1 43.2 88.0 42.1 18.7 19.0 27.5 78.5 91.8 37.4 56.1 39.9 64.7 32.3 62.1 48.6 94.1 95.1 76.1	(0.1) (3.7) (3.3) (3.3) (3.1) (1.2) (3.3) (2.4) (0.0) (0.1) (3.5) (0.2) (2.8) (0.1) (4.1) (4.5) (0.1) (1.5) (2.8)	59.3 66.8 76.3 48.4 67.1 28.9 24.8 73.6 58.4 32.6 47.3 15.0 30.6 78.6 60.4 67.9 85.9 62.9	(0.2) (3.0) (3.9) (3.7) (3.2) (1.2) (2.8) (2.8) (0.1) (0.1) (3.6) (0.5) (2.6) (0.1) (4.4) (4.0) (1.6) (3.6) (3.7)
Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	38.1 43.2 88.0 42.1 18.7 19.0 27.5 78.5 91.8 37.4 56.1 39.9 64.7 32.3 62.1 48.6 94.1 95.1 76.1 44.2	(0.1) (3.7) (3.3) (3.3) (3.1) (1.2) (3.3) (2.4) (0.0) (0.1) (3.5) (0.2) (2.8) (0.1) (4.1) (4.5) (0.1) (1.5) (2.8) (0.3)	59.3 66.8 76.3 48.4 67.1 28.9 24.8 73.6 58.4 32.6 47.3 15.0 30.6 78.6 60.4 67.9 85.9 62.9 57.7	(0.2) (3.0) (3.9) (3.7) (3.2) (1.2) (2.8) (2.8) (0.1) (0.1) (3.6) (0.5) (2.6) (0.1) (4.4) (4.0) (1.6) (3.6) (3.7) (0.3)
Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	38.1 43.2 88.0 42.1 18.7 19.0 27.5 78.5 91.8 37.4 56.1 39.9 64.7 32.3 62.1 48.6 94.1 95.1 76.1 44.2	(0.1) (3.7) (3.3) (3.3) (3.1) (1.2) (3.3) (2.4) (0.0) (0.1) (3.5) (0.2) (2.8) (0.1) (4.1) (4.5) (0.1) (1.5) (2.8) (0.3) (4.0)	59.3 66.8 76.3 48.4 67.1 28.9 24.8 73.6 58.4 32.6 47.3 15.0 30.6 78.6 60.4 67.9 85.9 62.9 57.7 53.8	(0.2) (3.0) (3.9) (3.7) (3.2) (1.2) (2.8) (2.8) (0.1) (0.1) (0.1) (3.6) (0.5) (2.6) (0.1) (4.4) (4.0) (1.6) (3.6) (3.7) (0.3) (4.5)
Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	38.1 43.2 88.0 42.1 18.7 19.0 27.5 78.5 91.8 37.4 56.1 39.9 64.7 32.3 62.1 48.6 94.1 95.1 76.1 44.2 65.1 36.1	(0.1) (3.7) (3.3) (3.3) (3.1) (1.2) (3.3) (2.4) (0.0) (0.1) (3.5) (0.2) (2.8) (0.1) (4.1) (4.5) (0.1) (1.5) (2.8) (0.3) (4.0) (2.2)	59.3 66.8 76.3 48.4 67.1 28.9 24.8 73.6 58.4 32.6 47.3 15.0 30.6 78.6 60.4 67.9 85.9 62.9 57.7 53.8 51.8	(0.2) (3.0) (3.9) (3.7) (3.2) (1.2) (2.8) (2.8) (0.1) (0.1) (3.6) (0.5) (2.6) (0.1) (4.4) (4.0) (1.6) (3.6) (3.7) (0.3) (4.5) (2.1)
Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	38.1 43.2 88.0 42.1 18.7 19.0 27.5 78.5 91.8 37.4 56.1 39.9 64.7 32.3 62.1 48.6 94.1 95.1 76.1 44.2 65.1 36.1 69.3	(0.1) (3.7) (3.3) (3.3) (3.3) (3.1) (1.2) (3.3) (2.4) (0.0) (0.1) (3.5) (0.2) (2.8) (0.1) (4.1) (4.5) (0.1) (1.5) (2.8) (0.3) (4.0) (2.2) (3.0)	59.3 66.8 76.3 48.4 67.1 28.9 24.8 73.6 58.4 32.6 47.3 15.0 30.6 78.6 60.4 67.9 85.9 62.9 57.7 53.8 51.8 49.4	(0.2) (3.0) (3.9) (3.7) (3.2) (1.2) (2.8) (2.8) (0.1) (0.1) (3.6) (0.5) (2.6) (0.1) (4.4) (4.0) (1.6) (3.6) (3.7) (0.3) (4.5) (2.1) (3.3)
Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	38.1 43.2 88.0 42.1 18.7 19.0 27.5 78.5 91.8 37.4 56.1 39.9 64.7 32.3 62.1 48.6 94.1 95.1 76.1 44.2 65.1 36.1	(0.1) (3.7) (3.3) (3.3) (3.1) (1.2) (3.3) (2.4) (0.0) (0.1) (3.5) (0.2) (2.8) (0.1) (4.1) (4.5) (0.1) (1.5) (2.8) (0.3) (4.0) (2.2)	59.3 66.8 76.3 48.4 67.1 28.9 24.8 73.6 58.4 32.6 47.3 15.0 30.6 78.6 60.4 67.9 85.9 62.9 57.7 53.8 51.8	(0.2) (3.0) (3.9) (3.7) (3.2) (1.2) (2.8) (2.8) (0.1) (0.1) (3.6) (0.5) (2.6) (0.1) (4.4) (4.0) (1.6) (3.6) (3.7) (0.3) (4.5) (2.1)
Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	38.1 43.2 88.0 42.1 18.7 19.0 27.5 78.5 91.8 37.4 56.1 39.9 64.7 32.3 62.1 48.6 94.1 95.1 76.1 44.2 65.1 36.1 69.3	(0.1) (3.7) (3.3) (3.3) (3.3) (3.1) (1.2) (3.3) (2.4) (0.0) (0.1) (3.5) (0.2) (2.8) (0.1) (4.1) (4.5) (0.1) (1.5) (2.8) (0.3) (4.0) (2.2) (3.0)	59.3 66.8 76.3 48.4 67.1 28.9 24.8 73.6 58.4 32.6 47.3 15.0 30.6 78.6 60.4 67.9 85.9 62.9 57.7 53.8 51.8 49.4	(0.2) (3.0) (3.9) (3.7) (3.2) (1.2) (2.8) (2.8) (0.1) (0.1) (0.1) (3.6) (0.5) (2.6) (0.1) (4.4) (4.0) (1.6) (3.6) (3.7) (0.3) (4.5) (2.1) (3.3) (3.8)
Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam Argentina** Kazakhstan**	38.1 43.2 88.0 42.1 18.7 19.0 27.5 78.5 91.8 37.4 56.1 39.9 64.7 32.3 62.1 48.6 94.1 95.1 76.1 44.2 65.1 36.1 69.3 41.7	(0.1) (3.7) (3.3) (3.3) (3.3) (3.1) (1.2) (3.3) (2.4) (0.0) (0.1) (3.5) (0.2) (2.8) (0.1) (4.1) (4.5) (0.1) (1.5) (2.8) (0.3) (4.0) (2.2) (3.0) (3.7)	59.3 66.8 76.3 48.4 67.1 28.9 24.8 73.6 58.4 32.6 47.3 15.0 30.6 78.6 60.4 67.9 85.9 62.9 57.7 53.8 51.8 49.4 52.3	(0.2) (3.0) (3.9) (3.7) (3.2) (1.2) (2.8) (2.8) (0.1) (0.1) (3.6) (0.5) (2.6) (0.1) (4.4) (4.0) (1.6) (3.6) (3.7) (0.3) (4.5) (2.1) (3.3) (3.8)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** http://dx.doi.org/10.1787/888933436513



[Part 1/1]

Table II.6.46 Extracurricular activities offered at school

Res	ults based on school	ol princ	ipals'			student	s in sch	nools wh	ose pri	ncipal r	eporte	that th	ne scho	ol offe	rs the t	following	activitie	es to st	udents		
		Bai orches cho	stra or	School school		Scho yearb newspa maga	ook, per or	Volunt or ser activ	eering rvice	Scienc		Scie	nce		s club		us on ters and tion and nication		lub or	Sportin or spo	
		%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
0	Australia	92.0	(1.1)	74.0	(1.9)	69.4	(1.9)	84.5	(1.4)	38.3	(2.2)	91.5	(1.2)	61.8	(1.9)	43.9	(2.0)	70.8	(1.9)	98.3	(0.6)
ECD	Austria	47.2	(3.0)	34.4	(3.3)	42.4	(4.0)	87.4	(1.8)	5.0	(1.3)	30.9	(3.0)	16.2	(2.7)	21.4	(2.8)	27.5	(3.5)	75.5	(3.1)
OE	Belgium	27.7	(2.6)	53.0	(3.1)	36.9	(2.9)	72.2	(3.0)	5.7	(1.7)	69.2	(2.9)	17.6	(2.5)	9.7	(2.2)	36.2	(3.1)	86.4	(2.2)
	Canada	87.8	(1.4)	88.3	(1.7)	88.4	(1.8)	96.7	(1.1)	56.5	(2.9)	76.2	(2.6)	51.9	(2.3)	63.5	(2.3)	90.7	(1.3)	99.6	(0.4)
	Chile	73.4	(3.2)	57.8	(3.7)	29.6	(3.7)	59.5	(3.7)	35.5	(3.9)	63.4	(3.8)	29.9	(4.2)	47.4	(4.6)	86.6	(2.5)	97.3	(1.3)
	Czech Republic	42.0	(3.0)	25.0	(2.7)	54.4	(3.1)	63.0	(3.3)	47.1	(3.3)	84.9	(2.0)	21.0	(2.5)	46.1	(3.2)	53.5	(3.1)	89.3	(1.9)
	Denmark Estonia	42.9 80.6	(3.1)	40.1 50.5	(3.9)	27.9 57.2	(2.9)	18.2 76.1	(2.5)	8.9 42.5	(2.4)	33.2 94.5	(3.2)	15.7 20.5	(2.5)	11.9 46.5	(2.5)	28.6 74.8	(3.3)	70.7 96.3	(3.3)
	Finland	81.4	(3.0)	40.3	(4.1)	40.5	(3.4)	35.7	(4.1)	12.9	(2.5)	86.0	(2.9)	8.4	(2.7)	13.0	(2.6)	37.3	(4.2)	85.0	(3.0)
	France	44.8	(3.6)	70.3	(2.7)	38.5	(3.1)	36.5	(3.4)	24.3	(3.1)	67.1	(2.8)	19.7	(2.8)	19.2	(2.8)	71.8	(3.4)	96.7	(1.2)
	Germany	78.4	(2.8)	61.6	(3.7)	54.9	(3.9)	93.6	(2.0)	48.4	(3.8)	58.9	(2.9)	26.4	(3.1)	57.9	(4.1)	75.0	(3.3)	93.1	(1.9)
	Greece	50.4	(3.9)	60.5	(3.3)	25.5	(3.0)	61.9	(3.9)	18.5	(2.5)	70.8	(3.3)	7.0	(2.0)	18.9	(3.0)	45.7	(3.7)	84.7	(2.5)
	Hungary	49.5	(3.5)	44.7	(3.2)	49.4	(3.2)	81.8	(2.6)	52.0	(3.6)	92.7	(1.8)	20.7	(2.5)	57.1	(3.6)	56.7	(3.2)	98.4	(0.9)
	Iceland	48.3	(0.3)	75.5	(0.2)	69.6	(0.3)	31.1	(0.2)	10.0	(0.1)	25.8	(0.2)	46.7	(0.3)	39.5	(0.3)	58.0	(0.3)	69.5	(0.3)
	Ireland	81.1	(3.0)	42.8	(4.2)	44.5	(4.6)	66.0	(4.1)	34.6	(3.9)	65.3	(4.5)	38.5	(3.7)	36.5	(4.0)	63.2	(4.0)	100.0	(2, C)
	Israel	53.9 21.1	(3.6)	48.2 67.8	(3.5)	55.3 48.6	(4.1)	98.3 66.5	(1.0)	57.5 45.7	(3.9)	57.2 65.9	(3.8)	7.0	(2.3)	41.6 33.5	(3.9)	55.3 43.7	(3.9)	84.7 92.4	(2.6)
	Italy Japan	91.0	(2.1)	50.8	(4.2)	47.8	(3.7)	91.5	(1.8)	59.8	(3.2)	23.6	(2.9)	33.3	(3.1)	53.4	(3.4)	96.7	(1.2)	100.0	(1./) C
	Korea	85.8	(2.7)	55.4	(3.5)	84.8	(2.7)	99.5	(0.5)	92.8	(2.0)	85.5	(2.3)	95.4	(1.6)	84.0	(2.8)	96.8	(1.2)	99.0	(0.8)
	Latvia	78.1	(2.5)	74.1	(2.5)	54.6	(2.7)	79.7	(2.1)	45.4	(3.0)	85.2	(2.2)	16.0	(1.9)	39.2	(3.2)	85.6	(1.9)	95.8	(0.8)
	Luxembourg	84.8	(0.1)	77.3	(0.1)	52.7	(0.1)	92.6	(0.1)	32.5	(0.1)	80.8	(0.1)	50.8	(0.1)	20.9	(0.1)	66.6	(0.1)	100.0	(O.O)
	Mexico	42.1	(3.3)	50.3	(3.1)	33.1	(3.5)	56.1	(3.0)	28.7	(2.9)	68.7	(2.8)	38.9	(3.3)	23.5	(2.9)	62.9	(3.8)	86.2	(2.6)
	Netherlands	52.3	(4.7)	59.9	(4.7)	48.8	(4.7)	94.0	(2.2)	18.2	(3.8)	50.7	(4.3)	11.1	(3.0)	6.6	(2.3)	63.0	(4.7)	81.5	(3.7)
	New Zealand	96.0	(1.3)	82.0	(3.8)	88.1	(2.4)	98.5	(0.8)	48.6	(4.2)	82.8	(2.8)	76.4	(3.0)	64.2	(3.7)	76.8	(3.3)	100.0	C
	Norway	23.6	(3.1)	33.4	(3.6)	26.1	(3.1)	52.3	(4.0)	1.6	(0.9)	12.5	(2.5)	10.9	(2.2)	10.6	(2.4)	8.1	(2.1)	35.2	(3.4)
	Poland	64.9	(4.2)	81.4	(3.1)	61.1	(3.5)	98.6	(0.8)	79.4	(3.0)	94.9	(1.7)	23.9	(3.0)	72.1	(3.5)	87.5	(2.3)	99.5	(0.5)
	Portugal Slovak Republic	26.1 34.7	(3.1)	57.3 47.1	(3.8)	69.4 72.5	(3.2)	89.1 85.9	(2.3)	56.6 60.2	(4.4)	88.6 80.6	(2.3)	32.5 27.0	(3.5)	22.9 84.0	(3.4)	58.0 71.2	(4.0)	96.8 99.3	(0.3)
	Slovenia	68.5	(0.2)	70.2	(0.4)	86.1	(0.3)	85.8	(0.3)	52.1	(0.6)	87.3	(0.2)	28.5	(0.3)	48.6	(0.4)	71.2	(0.2)	98.2	(0.3)
	Spain	29.1	(3.3)	46.3	(4.0)	48.5	(3.6)	61.8	(3.6)	15.7	(2.7)	65.6	(3.3)	19.3	(2.9)	21.5	(3.1)	35.6	(3.7)	80.2	(2.6)
	Sweden	62.0	(3.8)	46.8	(3.9)	21.9	(3.2)	41.2	(3.5)	7.1	(1.9)	61.0	(3.4)	10.7	(2.4)	7.8	(2.0)	29.2	(3.3)	75.7	(3.2)
	Switzerland	71.2	(2.8)	57.1	(4.0)	30.5	(3.8)	35.7	(3.6)	37.2	(3.6)	24.1	(3.4)	8.7	(2.2)	22.0	(2.9)	63.2	(3.6)	89.7	(2.3)
	Turkey	38.9	(3.9)	50.5	(3.9)	41.9	(4.3)	74.8	(3.9)	42.2	(4.4)	57.9	(4.5)	75.4	(3.9)	50.7	(4.6)	55.1	(4.2)	96.5	(1.4)
	United Kingdom	95.8	(1.6)	87.6	(2.8)	77.9	(2.9)	90.7	(2.1)	79.3	(3.0)	72.1	(3.5)	56.2	(3.9)	68.5	(3.5)	93.8	(1.5)	100.0	(0.0)
	United States	93.1	(2.0)	84.2	(3.1)	95.5	(1.6)	98.4	(0.9)	75.1	(3.7)	72.1	(3.4)	47.7	(3.7)	67.4	(3.8)	92.4	(1.9)	98.0	(1.1)
	OECD average	61.2	(0.5)	58.5	(0.6)	53.6	(0.5)	73.0	(0.4)	39.3	(0.5)	66.5	(0.5)	30.8	(0.5)	39.3	(0.5)	62.5	(0.5)	90.0	(0.3)
2	Albania	56.4	(3.5)	64.3	(3.4)	36.9	(3.6)	88.1	(1.9)	47.6	(4.0)	84.8	(2.3)	36.3	(3.9)	34.9	(4.0)	77.7	(3.1)	97.5	(1.3)
tue	Algeria	32.0	(4.1)	57.2	(4.3)	45.4	(4.6)	65.5	(4.1)	64.4	(4.1)	33.3	(3.9)	7.2	(2.4)	34.6	(4.2)	43.7	(4.8)	90.5	(2.5)
Partners	Brazil	31.1	(3.0)	51.5	(2.7)	26.4	(2.6)	49.2	(3.2)	12.7	(2.2)	27.4	(2.8)	32.6	(2.9)	16.3	(2.4)	42.5	(3.1)	86.7	(2.0)
_	B-S-J-G (China)	66.5	(4.0)	53.8	(4.2)	79.0	(3.3)	92.7	(1.8)	90.6	(2.3)	90.5	(2.2)	68.4	(3.6)	72.4	(3.3)	95.0	(1.5)	100.0	C
	Bulgaria	39.1	(3.3)	41.9	(3.5)	56.6	(4.1)	89.3	(2.2)	60.9	(3.7)	83.2	(2.0)	25.9	(3.5)	46.6	(4.0)	58.8	(3.8)	93.9	(1.7)
	CABA (Argentina) Colombia	62.0	(7.8)	53.4 42.7	(7.3)	25.7 40.6	(6.5)	73.6	(4.7)	48.6 34.8	(7.4)	54.2 67.8	(7.6)	15.3	(5.4)	65.7 31.9	(7.5)	78.8 68.5	(6.1)	86.2 94.5	(4.5)
	Costa Rica	79.5	(3.7)	58.5	(3.9)	12.4	(2.9)	31.0	(3.8)	24.2	(3.1)	90.6	(2.2)	24.1	(3.0)	22.7	(3.1)	70.4	(2.9)	93.4	(1.7)
	Croatia	43.2	(3.3)	57.5	(3.8)	61.7	(3.6)	97.8	(1.3)	52.0	(3.9)	81.5	(2.6)	14.2	(2.7)	35.5	(3.8)	55.7	(3.6)	99.4	(0.5)
	Cyprus*	98.6	(0.0)	85.2	(0.1)	97.6	(0.0)	98.2	(0.1)	74.6	(0.1)	87.0	(0.1)	24.8	(0.1)	80.3	(0.1)	96.0	(0.1)	100.0	(0.0)
	Dominican Republic	48.8	(4.2)	53.9	(3.9)	20.5	(3.8)	78.9	(3.7)	50.5	(4.0)	80.6	(3.0)	46.0	(4.2)	17.1	(3.2)	75.0	(3.4)	85.5	(2.6)
	FYROM	71.0	(0.2)	69.9	(0.1)	59.8	(0.2)	83.9	(0.1)	38.8	(0.2)	71.1	(0.1)	23.0	(0.1)	53.7	(0.2)	62.3	(0.2)	100.0	С
	Georgia	31.9	(3.6)	58.3	(3.0)	68.7	(3.3)	81.9	(2.0)	39.3	(3.4)	78.6	(2.7)	34.8	(3.6)	14.4	(2.4)	81.1	(2.9)	98.4	(0.7)
	Hong Kong (China)	94.3	(1.8)	81.0	(3.8)	90.7	(2.9)	100.0	C (2, 4)	94.9	(2.0)	87.5	(3.0)	75.3	(4.1)	95.1	(2.1)	97.8	(1.5)	100.0	(1 F)
	Indonesia	63.5	(3.8)	36.6	(3.9)	68.2	(3.9)	75.7	(3.4)	58.6	(3.5)	79.7	(2.8)	29.3	(3.6)	42.3	(3.3)	80.3	(3.1)	96.2	(1.5)
	Kosovo	23.2 63.4	(0.9)	54.4	(1.4)	46.7	(1.2)	77.2	(1.2)	51.6	(1.3)	58.2	(3.1)	20.7	(3.3)	35.6 36.0	(1.3)	59.4	(1.3)	95.2	(0.6)
	Lebanon	22.9	(3.2)	49.1	(3.8)	49.7	(3.8)	78.2	(3.2)	43.5	(4.0)	57.9	(4.2)	14.4	(3.0)	35.3	(3.5)	58.2	(3.9)	88.5	(2.7)
	Lithuania	89.3	(1.6)	56.4	(2.7)	68.6	(2.6)	73.8	(2.4)	34.5	(2.6)	92.2	(1.5)	18.0	(2.2)	35.6	(2.9)	85.3	(2.0)	98.3	(0.6)
	Macao (China)	93.9	(0.1)	95.0	(0.0)	95.5	(0.1)	99.9	(0.0)	74.2	(0.1)	95.8	(0.0)	42.3	(0.1)	79.4	(0.1)	96.7	(0.0)	99.7	(0.0)
	Malta	72.8	(0.1)	81.0	(0.1)	56.0	(0.1)	91.9	(0.1)	65.8	(0.1)	74.7	(0.1)	34.7	(0.1)	61.4	(0.1)	91.2	(0.1)	97.8	(0.0)
	Moldova	30.6	(3.2)	44.4	(3.7)	42.2	(3.6)	87.5	(2.2)	17.1	(2.9)	98.5	(0.9)	39.6	(3.6)	34.1	(3.7)	89.9	(1.7)	99.4	(0.5)
	Montenegro	43.2	(0.3)	78.7	(0.1)	88.2	(0.5)	80.7	(0.6)	75.7	(0.5)	83.5	(0.6)	27.6	(0.3)	61.7	(0.3)	77.7	(0.1)	94.7	(0.6)
	Peru	49.3	(3.2)	55.0	(2.7)	22.0	(2.6)	44.0	(3.1)	28.1	(2.9)	70.4	(2.7)	27.2	(2.5)	25.2	(2.9)	62.4	(3.0)	84.5	(2.3)
	Qatar	29.7	(0.1)	73.9	(0.1)	87.0	(0.1)	94.5	(0.0)	85.8	(0.1)	91.0	(0.1)	25.6	(0.1)	74.4	(0.1)	80.0	(0.1)	99.3	(0.0)
	Romania	43.1	(3.9)	69.2	(3.3)	92.9	(1.9)	25.0	(3.7)	73.4	(3.0)	37.2	(3.7)	42.8	(4.3)	84.1	(2.9)	93.8	(1.8)	93.6	(1.9)
	Russia Singapore	67.8 99.0	(4.1)	40.9 69.5	(4.3)	67.2 95.1	(4.2)	92.1	(2.3) C	77.3 41.7	(2.8)	99.2 88.6	(0.7)	32.8 25.1	(3.7)	38.3 89.3	(3.4)	70.8 92.3	(3.3)	98.1	(1.1) C
	Chinese Taipei	91.6	(1.6)	60.3	(3.0)	96.9	(1.1)	98.9	(0.4)	79.6	(2.6)	81.4	(2.4)	70.7	(2.9)	75.7	(3.2)	95.1	(1.3)	98.8	(0.8)
	Thailand	81.6	(2.5)	79.0	(2.4)	85.8	(2.2)	89.2	(2.5)	89.6	(2.2)	72.3	(3.8)	38.0	(3.9)	94.1	(1.9)	88.5	(2.0)	98.8	(0.8)
	Trinidad and Tobago	64.4	(0.3)	44.8	(0.3)	30.3	(0.2)	81.5	(0.3)	38.5	(0.2)	68.5	(0.3)	38.5	(0.2)	18.1	(0.2)	73.5	(0.3)	96.6	(0.1)
	Tunisia	27.3	(4.4)	44.1	(4.6)	38.8	(4.6)	64.6	(4.3)	58.7	(4.4)	41.5	(4.4)	20.4	(3.9)	47.2	(4.6)	55.6	(4.6)	82.5	(2.8)
	United Arab Emirates	34.1	(2.4)	67.8	(2.7)	75.3	(2.2)	90.4	(2.0)	82.3	(1.8)	87.9	(1.7)	39.9	(3.1)	74.3	(2.4)	74.4	(2.5)	94.8	(1.2)
	Uruguay	69.9	(2.5)	42.8	(3.2)	11.5	(2.2)	26.8	(2.3)	35.2	(2.9)	44.5	(2.5)	13.5	(2.3)	27.0	(3.0)	26.5	(3.0)	88.3	(2.3)
	Viet Nam	18.2	(3.6)	89.1	(2.0)	45.4	(4.3)	81.7	(3.4)	44.3	(4.0)	47.0	(3.8)	15.1	(3.0)	18.1	(3.5)	66.7	(4.2)	99.3	(1.0)
	Argentina**	32.4	(3.6)	37.2	(3.8)	25.2	(3.2)	54.4	(3.7)	42.3	(4.0)	57.8	(3.5)	18.3	(2.9)	57.2	(3.2)	69.4	(3.5)	90.5	(2.2)
	Kazakhstan**	71.1	(3.3)	38.0	(3.5)	66.6	(3.6)	94.2	(1.9)	77.1	(3.1)	99.3	(0.4)	65.9	(2.8)	62.8	(3.0)	91.1	(2.2)	99.4	(0.5)
	Malaysia**	37.9	(3.6)	51.0	(4.0)	91.9	(2.1)	85.6	(3.0)	96.7	(1.5)	87.7	(2.5)	88.4	(2.6)	91.2	(2.4)	97.5	(1.4)	99.5	(0.6)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** http://dx.doi.org/10.1787/888933436513



[Part 1/1]

Table II.6.50 Attendance at pre-primary school

			-		1				ts who ha				1			
		o not ember	Did no	t attend		than year		en one o years		en two ee years		en three ur years		en four e years	5 years	or more
	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Australia	16.1	(0.4)	2.2	(0.2)	9.2	(0.3)	37.6	(0.6)	33.8	(0.5)	11.9	(0.4)	4.1	(0.3)	1.2	(0.1)
Austria	12.7	(0.5)	1.3	(0.2)	0.6	(0.1)	8.8	(0.5)	28.2	(0.8)	43.9	(0.9)	13.5	(0.6)	3.7	(0.3)
Belgium	15.2	(0.4)	1.2	(0.2)	0.6	(0.1)	1.9	(0.2)	10.7	(0.4)	51.0	(0.6)	30.4	(0.6)	4.2	(0.3)
Canada	14.1	(0.4)	2.6	(0.2)	13.7	(0.5)	36.9	(0.6)	30.9	(0.6)	10.5	(0.4)	3.8	(0.2)	1.6	(0.2)
Chile	12.5	(0.7)	3.2	(0.4)	1.2	(0.2)	39.6	(0.9)	46.5	(0.8)	6.8	(0.5)	1.7	(0.2)	1.1	(0.2)
Czech Republic	12.1	(0.5)	1.9	(0.3)	1.1	(0.2)	4.4	(0.4)	15.7	(0.5)	51.6	(0.9)	22.5	(0.8)	2.8	(0.2)
Denmark	18.2	(0.6)	0.6	(0.1)	0.3	(0.1)	6.1	(0.3)	12.5	(0.6)	35.3	(0.7)	38.2	(0.8)	7.0	(0.4)
Estonia Finland	14.7 14.7	(0.7)	5.3 1.7	(0.5)	0.1	(0.0)	2.8	(0.4)	5.8 19.2	(0.4)	18.2 19.9	(0.6)	39.5 18.6	(0.8)	28.2 14.2	(0.8)
France	11.6	(0.6)	0.8	(0.2)	2.7	(0.2)	3.4	(0.3)	12.6	(0.4)	60.4	(0.8)	17.3	(0.6)	2.7	(0.3
Germany	18.4	(0.5)	1.3	(0.1)	2.3	(0.2)	6.4	(0.5)	16.4	(0.7)	49.2	(0.8)	18.8	(0.6)	5.5	(0.5
Greece	12.6	(0.6)	2.1	(0.4)	1.1	(0.2)	17.4	(0.7)	43.0	(0.9)	24.0	(0.6)	8.7	(0.6)	3.7	(0.3
Hungary	14.5	(0.6)	0.2	(0.1)	0.6	(0.2)	2.5	(0.3)	9.6	(0.6)	44.6	(0.8)	38.6	(0.8)	3.9	(0.3
Iceland	25.9	(0.8)	1.7	(0.3)	0.3	(0.1)	2.1	(0.3)	10.1	(0.6)	32.2	(0.9)	41.7	(0.9)	12.0	(0.6
Ireland	10.8	(0.5)	7.1	(0.4)	2.8	(0.3)	41.0	(1.1)	35.4	(0.9)	10.2	(0.5)	2.7	(0.3)	0.8	(0.2
Israel	13.3	(0.5)	0.9	(0.3)	0.7	(0.1)	6.6	(0.5)	21.7	(0.8)	36.8	(0.9)	22.2	(0.8)	11.0	(0.6
Italy	10.5	(0.6)	1.7	(0.2)	2.0	(0.2)	4.2	(0.3)	19.6	(0.7)	61.3	(0.9)	10.7	(0.6)	0.6	(0.1
Japan	17.6	(0.6)	0.4	(0.1)	0.7	(0.1)	6.4	(0.4)	25.8	(0.8)	40.6	(1.0)	12.8	(0.7)	13.4	(0.7
Korea	16.1	(0.5)	2.8	(0.3)	1.2	(0.2)	14.5	(0.6)	29.8	(0.7)	32.1	(0.8)	14.6	(0.5)	4.9	(0.4
Latvia	17.5	(0.6)	5.4	(0.5)	0.4	(0.1)	3.9	(0.3)	15.5	(0.7)	20.4	(0.7)	30.5	(0.8)	24.0	(0.9
Luxembourg	17.5	(0.6)	2.6	(0.2)	2.4	(0.3)	8.9	(0.4)	42.9	(0.8)	31.9	(0.7)	8.6	(0.4)	2.7	(0.3
Mexico Netherlands	4.0 m	(0.3) m	1.7 m	(0.2) m	0.9 m	(0.1) m	16.3 m	(0.9) m	37.3 m	(1.0) m	36.8 m	(1.2) m	5.2 m	(0.4) m	1.9 m	(0.2
New Zealand	12.9	(0.5)	3.8	(0.3)	2.4	(0.3)	15.8	(0.7)	40.6	(1.0)	24.5	(0.7)	11.8	(0.6)	1.1	(0.2
Norway	21.1	(0.6)	5.9	(0.4)	0.5	(0.1)	4.1	(0.7)	12.8	(0.6)	30.0	(0.7)	31.7	(0.0)	15.0	(0.2
Poland	12.7	(0.6)	17.4	(1.3)	0.5	(0.1)	23.4	(1.2)	19.5	(0.9)	17.1	(0.8)	18.2	(0.8)	3.9	(0.3
Portugal	12.0	(0.5)	7.3	(0.5)	26.5	(0.8)	38.3	(0.8)	16.1	(0.7)	10.1	(0.5)	1.3	(0.2)	0.3	(0.1
Slovak Republic	10.0	(0.5)	3.8	(0.3)	1.8	(0.2)	9.2	(0.6)	14.9	(0.6)	44.5	(0.8)	22.5	(0.8)	3.3	(0.2
Slovenia	12.2	(0.6)	13.6	(0.5)	0.5	(0.1)	8.1	(0.4)	17.5	(0.6)	25.3	(0.8)	21.7	(0.7)	13.2	(0.6
Spain	6.0	(0.4)	1.0	(0.1)	3.0	(0.2)	4.0	(0.2)	16.6	(0.6)	59.1	(1.0)	11.3	(0.6)	5.0	(0.4
Sweden	16.8	(0.6)	3.7	(0.4)	0.7	(0.2)	5.8	(0.4)	7.6	(0.5)	13.5	(0.5)	26.5	(0.8)	42.2	(1.0
Switzerland	13.8	(0.4)	1.3	(0.2)	0.9	(0.2)	17.5	(1.2)	62.4	(1.5)	14.5	(0.6)	2.4	(0.3)	0.9	(0.2
Turkey	6.6	(0.4)	49.6	(1.3)	2.0	(0.2)	29.5	(0.9)	12.7	(0.5)	3.6	(0.3)	1.6	(0.2)	1.0	(0.2
United Kingdom	13.5	(0.5)	1.6	(0.2)	3.5	(0.3)	28.4	(0.7)	37.9	(0.8)	20.7	(0.7)	7.0	(0.5)	1.0	(0.1
United States	20.5	(0.6)	18.4	(8.0)	0.8	(0.2)	17.4	(0.7)	37.7	(0.9)	17.1	(0.7)	5.7	(0.5)	3.0	(0.2
OECD average	14.1	(0.1)	5.2	(0.1)	2.6	(0.0)	14.6	(0.1)	24.1	(0.1)	29.7	(0.1)	16.7	(0.1)	7.1	(0.1)
411 1																
Albania	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	n
Algeria	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	n
Algeria Brazil	m 15.1	m (0.4)	m 2.9	m (0.2)	m 6.7	m (0.3)	m 16.2	m (0.5)	m 19.4	m (0.5)	m 21.6	m (0.5)	m 15.4	m (0.5)	m 17.8	(0.5
Algeria Brazil B-S-J-G (China)	m 15.1 12.3	m (0.4) (0.5)	m 2.9 17.1	m (0.2) (1.3)	6.7 2.2	m (0.3) (0.2)	m 16.2 10.0	m (0.5) (0.6)	m 19.4 20.9	m (0.5) (0.9)	m 21.6 33.3	m (0.5) (0.9)	m 15.4 13.1	m (0.5) (0.9)	m 17.8 3.4	(0.5 (0.4
Algeria Brazil B-S-J-G (China) Bulgaria	m 15.1 12.3 11.5	m (0.4) (0.5) (0.5)	m 2.9 17.1 6.1	m (0.2) (1.3) (0.4)	m 6.7 2.2 0.5	m (0.3) (0.2) (0.1)	m 16.2 10.0 5.4	m (0.5) (0.6) (0.5)	m 19.4 20.9 10.2	m (0.5) (0.9) (0.5)	m 21.6 33.3 22.0	m (0.5) (0.9) (0.8)	m 15.4 13.1 40.4	m (0.5) (0.9) (1.0)	m 17.8 3.4 15.4	(0.5 (0.4 (0.6
Algeria Brazil B-S-J-G (China) Bulgaria CABA (Argentina)	m 15.1 12.3 11.5 m	m (0.4) (0.5) (0.5) m	m 2.9 17.1 6.1 m	m (0.2) (1.3) (0.4) m	m 6.7 2.2 0.5 m	m (0.3) (0.2) (0.1) m	m 16.2 10.0 5.4 m	m (0.5) (0.6) (0.5) m	m 19.4 20.9 10.2 m	m (0.5) (0.9) (0.5) m	m 21.6 33.3 22.0 m	m (0.5) (0.9) (0.8) m	m 15.4 13.1 40.4 m	m (0.5) (0.9) (1.0) m	m 17.8 3.4 15.4 m	(0.5 (0.4 (0.6 n
Algeria Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia	m 15.1 12.3 11.5 m 8.7	m (0.4) (0.5) (0.5) m (0.4)	m 2.9 17.1 6.1 m 3.4	m (0.2) (1.3) (0.4) m (0.4)	m 6.7 2.2 0.5 m 4.8	m (0.3) (0.2) (0.1) m (0.3)	m 16.2 10.0 5.4 m 60.1	m (0.5) (0.6) (0.5) m (1.3)	m 19.4 20.9 10.2 m 16.7	m (0.5) (0.9) (0.5) m (0.8)	m 21.6 33.3 22.0 m 8.9	m (0.5) (0.9) (0.8) m (0.7)	m 15.4 13.1 40.4 m 4.5	m (0.5) (0.9) (1.0) m (0.4)	m 17.8 3.4 15.4 m 1.7	(0.5 (0.4 (0.6 n (0.2
Algeria Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica	m 15.1 12.3 11.5 m 8.7 16.0	m (0.4) (0.5) (0.5) m (0.4) (0.5)	m 2.9 17.1 6.1 m 3.4 9.2	m (0.2) (1.3) (0.4) m (0.4) (0.5)	m 6.7 2.2 0.5 m 4.8 1.7	m (0.3) (0.2) (0.1) m (0.3) (0.2)	m 16.2 10.0 5.4 m 60.1 41.6	m (0.5) (0.6) (0.5) m (1.3) (0.8)	m 19.4 20.9 10.2 m 16.7 33.5	m (0.5) (0.9) (0.5) m (0.8) (0.8)	m 21.6 33.3 22.0 m 8.9 8.9	m (0.5) (0.9) (0.8) m (0.7) (0.4)	m 15.4 13.1 40.4 m 4.5 3.4	m (0.5) (0.9) (1.0) m (0.4) (0.3)	m 17.8 3.4 15.4 m 1.7	(0.5 (0.4 (0.6 n (0.2 (0.2
Algeria Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia	m 15.1 12.3 11.5 m 8.7	m (0.4) (0.5) (0.5) m (0.4)	m 2.9 17.1 6.1 m 3.4	m (0.2) (1.3) (0.4) m (0.4)	m 6.7 2.2 0.5 m 4.8	m (0.3) (0.2) (0.1) m (0.3)	m 16.2 10.0 5.4 m 60.1	m (0.5) (0.6) (0.5) m (1.3)	m 19.4 20.9 10.2 m 16.7	m (0.5) (0.9) (0.5) m (0.8)	m 21.6 33.3 22.0 m 8.9	m (0.5) (0.9) (0.8) m (0.7)	m 15.4 13.1 40.4 m 4.5	m (0.5) (0.9) (1.0) m (0.4)	m 17.8 3.4 15.4 m 1.7	(0.4 (0.4 (0.6 n (0.2 (0.2
Algeria Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica	m 15.1 12.3 11.5 m 8.7 16.0 12.6	m (0.4) (0.5) (0.5) m (0.4) (0.5) (0.5)	m 2.9 17.1 6.1 m 3.4 9.2 19.8	m (0.2) (1.3) (0.4) m (0.4) (0.5) (0.9)	m 6.7 2.2 0.5 m 4.8 1.7	m (0.3) (0.2) (0.1) m (0.3) (0.2) (0.1)	m 16.2 10.0 5.4 m 60.1 41.6 17.4	m (0.5) (0.6) (0.5) m (1.3) (0.8) (0.7)	m 19.4 20.9 10.2 m 16.7 33.5 15.3	m (0.5) (0.9) (0.5) m (0.8) (0.8) (0.5)	m 21.6 33.3 22.0 m 8.9 8.9 18.3	m (0.5) (0.9) (0.8) m (0.7) (0.4) (0.6)	m 15.4 13.1 40.4 m 4.5 3.4 17.2	m (0.5) (0.9) (1.0) m (0.4) (0.3) (0.6)	m 17.8 3.4 15.4 m 1.7 1.7 11.3	(0.5 (0.4 (0.6 n (0.2 (0.2 (0.5 (0.3
Algeria Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus	m 15.1 12.3 11.5 m 8.7 16.0 12.6 17.7	m (0.4) (0.5) (0.5) m (0.4) (0.5) (0.5) (0.5) (0.5)	m 2.9 17.1 6.1 m 3.4 9.2 19.8 1.8	m (0.2) (1.3) (0.4) m (0.4) (0.5) (0.9) (0.2)	m 6.7 2.2 0.5 m 4.8 1.7 0.7 1.2	m (0.3) (0.2) (0.1) m (0.3) (0.2) (0.1) (0.1) (0.2)	m 16.2 10.0 5.4 m 60.1 41.6 17.4 12.8	m (0.5) (0.6) (0.5) m (1.3) (0.8) (0.7) (0.5)	m 19.4 20.9 10.2 m 16.7 33.5 15.3 37.6	m (0.5) (0.9) (0.5) m (0.8) (0.5) (0.5) (0.7)	m 21.6 33.3 22.0 m 8.9 8.9 18.3 30.4	m (0.5) (0.9) (0.8) m (0.7) (0.4) (0.6) (0.7)	m 15.4 13.1 40.4 m 4.5 3.4 17.2 11.5	m (0.5) (0.9) (1.0) m (0.4) (0.3) (0.6) (0.4)	m 17.8 3.4 15.4 m 1.7 1.7 11.3 4.7	(0.5 (0.4 (0.6 n (0.2 (0.2 (0.3 (0.3
Algeria Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus Dominican Republic	m 15.1 12.3 11.5 m 8.7 16.0 12.6 17.7 6.4	m (0.4) (0.5) (0.5) m (0.4) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5)	m 2.9 17.1 6.1 m 3.4 9.2 19.8 1.8 3.8	m (0.2) (1.3) (0.4) m (0.5) (0.9) (0.2) (0.4)	m 6.7 2.2 0.5 m 4.8 1.7 0.7 1.2	m (0.3) (0.2) (0.1) m (0.3) (0.2) (0.1) (0.2) (0.8)	m 16.2 10.0 5.4 m 60.1 41.6 17.4 12.8 33.3	m (0.5) (0.6) (0.5) m (1.3) (0.8) (0.7) (0.5) (0.9)	m 19.4 20.9 10.2 m 16.7 33.5 15.3 37.6 19.5	m (0.5) (0.9) (0.5) m (0.8) (0.5) (0.7) (0.8)	m 21.6 33.3 22.0 m 8.9 8.9 18.3 30.4 13.2	m (0.5) (0.9) (0.8) m (0.7) (0.4) (0.6) (0.7) (0.7)	m 15.4 13.1 40.4 m 4.5 3.4 17.2 11.5 7.8	m (0.5) (0.9) (1.0) m (0.4) (0.3) (0.6) (0.4) (0.4)	m 17.8 3.4 15.4 m 1.7 1.7 11.3 4.7 5.2	(0.5 (0.4 (0.6 (0.2 (0.2 (0.3 (0.4 r
Algeria Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus Dominican Republic FYROM Georgia Hong Kong (China)	m 15.1 12.3 11.5 m 8.7 16.0 12.6 17.7 6.4 m	m (0.4) (0.5) (0.5) m (0.4) (0.5) (0.5) (0.5) (0.5) (0.5) m	m 2.9 17.1 6.1 m 3.4 9.2 19.8 1.8 3.8 m	m (0.2) (1.3) (0.4) m (0.4) (0.5) (0.9) (0.2) (0.4) m	m 6.7 2.2 0.5 m 4.8 1.7 0.7 1.2 17.1	m (0.3) (0.2) (0.1) m (0.3) (0.2) (0.1) (0.2) (0.8) m	m 16.2 10.0 5.4 m 60.1 41.6 17.4 12.8 33.3 m	m (0.5) (0.6) (0.5) m (1.3) (0.8) (0.7) (0.5) (0.9) m	m 19.4 20.9 10.2 m 16.7 33.5 15.3 37.6 19.5 m	m (0.5) (0.9) (0.5) m (0.8) (0.5) (0.7) (0.8) m	m 21.6 33.3 22.0 m 8.9 8.9 18.3 30.4 13.2	m (0.5) (0.9) (0.8) m (0.7) (0.4) (0.6) (0.7) m	m 15.4 13.1 40.4 m 4.5 3.4 17.2 11.5 7.8 m	m (0.5) (0.9) (1.0) m (0.4) (0.3) (0.6) (0.4) (0.4) m	m 17.8 3.4 15.4 m 1.7 1.7 11.3 4.7 5.2	(0.5 (0.4 (0.6 n (0.2
Algeria Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus Dominican Republic FYROM Georgia Hong Kong (China) Indonesia	m 15.1 12.3 11.5 m 8.7 16.0 12.6 17.7 6.4 m m 15.9	m (0.4) (0.5) (0.5) m (0.4) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) m m (0.6) m	m 2.9 17.1 6.1 m 3.4 9.2 19.8 1.8 3.8 m m 1.0 m	m (0.2) (1.3) (0.4) m (0.4) (0.5) (0.9) (0.2) (0.4) m (0.2) m	m 6.7 2.2 0.5 m 4.8 1.7 0.7 1.2 17.1 m m 0.5	m (0.3) (0.2) (0.1) m (0.3) (0.2) (0.1) (0.2) (0.1) (0.2) (0.8) m (0.1) m (0.1) m	m 16.2 10.0 5.4 m 60.1 41.6 17.4 12.8 33.3 m m 2.0	m (0.5) (0.6) (0.5) m (1.3) (0.8) (0.7) (0.5) m m (0.2) m	m 19.4 20.9 10.2 m 16.7 33.5 15.3 37.6 19.5 m m 10.7	m (0.5) (0.9) (0.5) m (0.8) (0.8) (0.5) (0.7) (0.8) m m (0.6) m m	m 21.6 33.3 22.0 m 8.9 8.9 18.3 30.4 13.2 m m 64.1 m	m (0.5) (0.9) (0.8) m (0.7) (0.4) (0.6) (0.7) (0.7) m m (1.1) m	m 15.4 13.1 40.4 m 4.5 3.4 17.2 11.5 7.8 m m 18.4	m (0.5) (0.9) (1.0) m (0.4) (0.3) (0.6) (0.4) (0.4) m m (0.7) m	m 17.8 3.4 15.4 m 1.7 1.7 11.3 4.7 5.2 m m 3.4	(0.5 (0.4 (0.6 r) (0.2 (0.5 (0.3 (0.4 r) (0.3
Algeria Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan	m 15.1 12.3 11.5 m 8.7 16.0 12.6 17.7 6.4 m m	m (0.4) (0.5) (0.5) m (0.4) (0.5) (0.5) (0.5) (0.5) (0.5) m m (0.6) m m	m 2.9 17.1 6.1 m 3.4 9.2 19.8 1.8 3.8 m m 1.0 m m	m (0.2) (1.3) (0.4) m (0.5) (0.9) (0.2) (0.4) m (0.2) m m (0.2) m m	m 6.7 2.2 0.5 m 4.8 1.7 0.7 1.2 17.1 m m 0.5 m	m (0.3) (0.2) (0.1) m (0.3) (0.2) (0.1) (0.2) (0.1) (0.2) (0.8) m m (0.1) m m	m 16.2 10.0 5.4 m 60.1 41.6 17.4 12.8 33.3 m m 2.0 m	m (0.5) (0.6) (0.5) m (1.3) (0.8) (0.7) (0.5) m m (0.2) m m m (0.2) m m m	m 19.4 20.9 10.2 m 16.7 33.5 15.3 37.6 19.5 m m 10.7 m	m (0.5) (0.9) (0.5) m (0.8) (0.8) (0.7) (0.8) m m (0.6) m m m	m 21.6 33.3 22.0 m 8.9 8.9 18.3 30.4 13.2 m m 64.1 m m	m (0.5) (0.9) (0.8) m (0.7) (0.4) (0.6) (0.7) m m (1.1) m m	m 15.4 13.1 40.4 m 4.5 3.4 17.2 11.5 7.8 m m 18.4 m	m (0.5) (0.9) (1.0) m (0.4) (0.3) (0.6) (0.4) (0.4) m m (0.7) m m	m 17.8 3.4 15.4 m 1.7 1.7 11.3 4.7 5.2 m m 3.4 m	(0.5 (0.4 (0.6 r) (0.2 (0.5 (0.3 (0.4 r) (0.3
Algeria Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo	m 15.1 12.3 11.5 m 8.7 16.0 12.6 17.7 6.4 m m 15.9 m	m (0.4) (0.5) (0.5) m (0.4) (0.5) (0.5) (0.5) (0.5) (0.5) m m (0.6) m m m m	m 2.9 17.1 6.1 m 3.4 9.2 19.8 1.8 3.8 m m 1.0 m m m	m (0.2) (1.3) (0.4) m (0.5) (0.9) (0.2) (0.4) m (0.2) m m (0.2) m m m m	m 6.7 2.2 0.5 m 4.8 1.7 0.7 1.2 17.1 m m 0.5 m	m (0.3) (0.2) (0.1) m (0.3) (0.2) (0.1) (0.2) (0.8) m (0.1) m m m m	m 16.2 10.0 5.4 m 60.1 41.6 17.4 12.8 33.3 m m 2.0 m	m (0.5) (0.6) (0.5) m (1.3) (0.8) (0.7) (0.5) (0.9) m m (0.2) m m m (0.2)	m 19.4 20.9 10.2 m 16.7 33.5 15.3 37.6 19.5 m m 10.7 m	m (0.5) (0.9) (0.5) m (0.8) (0.5) (0.7) (0.8) m (0.6) m m m (0.6) m m m	m 21.6 33.3 22.0 m 8.9 8.9 18.3 30.4 13.2 m m 64.1 m m m	m (0.5) (0.9) (0.8) m (0.7) (0.4) (0.6) (0.7) m m (1.1) m m m	m 15.4 13.1 40.4 m 4.5 3.4 17.2 11.5 7.8 m m 18.4 m	m (0.5) (0.9) (1.0) m (0.4) (0.3) (0.6) (0.4) m m (0.7) m m m	m 17.8 3.4 15.4 m 1.7 1.7 11.3 4.7 5.2 m m 3.4 m	(0.5 (0.2 (0.6 (0.2 (0.2 (0.5 (0.3 (0.2 r (0.3
Algeria Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon	m 15.1 12.3 11.5 m 8.7 16.0 12.6 17.7 6.4 m m 15.9 m	m (0.4) (0.5) (0.5) m (0.4) (0.5) (0.5) (0.5) (0.5) m m (0.6) m m m (0.6) m m m m m	m 2.9 17.1 6.1 m 3.4 9.2 19.8 1.8 3.8 m m 1.0 m m m m	m (0.2) (1.3) (0.4) m (0.5) (0.9) (0.2) (0.4) m (0.2) m m (0.2) m m m m m m	m 6.7 2.2 0.5 m 4.8 1.7 0.7 1.2 17.1 m m 0.5 m m	m (0.3) (0.2) (0.1) m (0.3) (0.2) (0.1) (0.2) (0.1) (0.2) (0.8) m m (0.1) m m m m m m	m 16.2 10.0 5.4 m 60.1 41.6 17.4 12.8 33.3 m m 2.0 m	m (0.5) (0.6) (0.5) (0.6) (0.5) m (1.3) (0.8) (0.7) (0.5) m m (0.2) m m m (0.2) m m m m m m	m 19.4 20.9 10.2 m 16.7 33.5 15.3 37.6 19.5 m m 10.7 m	m (0.5) (0.9) (0.5) m (0.8) (0.8) (0.5) (0.7) (0.8) m m (0.6) m m m (0.6) m m m m m m m	m 21.6 33.3 22.0 m 8.9 8.9 18.3 30.4 13.2 m m 64.1 m m m m m	m (0.5) (0.9) (0.8) m (0.7) (0.4) (0.6) (0.7) (0.7) m m (1.1) m m m m m m	m 15.4 13.1 40.4 m 4.5 3.4 17.2 11.5 7.8 m m 18.4 m	m (0.5) (0.9) (1.0) m (0.4) (0.3) (0.6) (0.4) m m (0.7) m m m m m m	m 17.8 3.4 15.4 m 1.7 11.3 4.7 5.2 m m 3.4 m m	(0.5 (0.2 (0.6 (0.2 (0.2 (0.5 (0.3 (0.2 r (0.3 r
Algeria Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania	m 15.1 12.3 11.5 m 8.7 16.0 12.6 17.7 6.4 m m 15.9 m m	m (0.4) (0.5) (0.5) m (0.4) (0.5) (0.5) (0.5) (0.5) m m (0.6) m m (0.6) m m m (0.6)	m 2.9 17.1 6.1 m 3.4 9.2 19.8 1.8 3.8 m m 1.0 m m m 23.6	m (0.2) (1.3) (0.4) m (0.5) (0.9) (0.2) (0.4) m m (0.2) m m m (0.2) m m m (1.0)	m 6.7 2.2 0.5 m 4.8 1.7 0.7 1.2 17.1 m m 0.5 m m	m (0.3) (0.2) (0.1) m (0.3) (0.2) (0.1) (0.2) (0.1) (0.2) (0.8) m m (0.1) m m m (0.2)	m 16.2 10.0 5.4 m 60.1 41.6 17.4 12.8 33.3 m m 2.0 m m	m (0.5) (0.6) (0.5) (0.6) (0.5) m (1.3) (0.8) (0.7) (0.5) m m (0.2) m m m (0.2) m m m (0.5)	m 19.4 20.9 10.2 m 16.7 33.5 15.3 37.6 19.5 m m 10.7 m m	m (0.5) (0.9) (0.5) m (0.8) (0.5) (0.7) (0.8) m m (0.6) m m m m (0.6) m m m m (0.5)	m 21.6 33.3 22.0 m 8.9 8.9 18.3 30.4 13.2 m m 64.1 m m m 20.8	m (0.5) (0.9) (0.8) m (0.7) (0.4) (0.6) (0.7) m m (1.1) m m m (0.7)	m 15.4 13.1 40.4 m 4.5 3.4 17.2 11.5 7.8 m m 18.4 m m	m (0.5) (0.9) (1.0) m (0.4) (0.3) (0.6) (0.4) m m (0.7) m m m (0.7) m m m (0.8)	m 17.8 3.4 15.4 m 1.7 1.7 11.3 4.7 5.2 m m 3.4 m m	(0.5 (0.6 (0.6 (0.2 (0.2 (0.5 (0.3 (0.2 (0.3 (0.3 (0.3 (0.3 (0.3 (0.3 (0.3 (0.3
Algeria Brazil B-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China)	m 15.1 12.3 11.5 m 8.7 16.0 12.6 17.7 6.4 m m 15.9 m m	m (0.4) (0.5) (0.5) m (0.4) (0.5) (0.5) (0.5) m m (0.6) (0.6) m m m (0.6) (0.6) (0.6)	m 2.9 17.1 6.1 m 3.4 9.2 19.8 3.8 m m 1.0 m m m 23.6 0.5	m (0.2) (1.3) (0.4) m (0.4) (0.5) (0.9) (0.2) (0.4) m m (0.2) m m m (0.2) m m m (1.0) (0.1)	m 6.7 2.2 0.5 m 4.8 1.7 0.7 1.2 17.1 m m 0.5 m m m 1.1 0.5	m (0.3) (0.2) (0.1) m (0.3) (0.2) (0.1) m (0.2) (0.8) m m (0.1) m m (0.1) m (0.2) (0.8) m (0.1) m m (0.2) (0.1)	m 16.2 10.0 5.4 m 60.1 41.6 17.4 12.8 33.3 m m 2.0 m m m 9.4 2.8	m (0.5) (0.6) (0.5) (0.6) (0.7	m 19.4 20.9 10.2 m 16.7 33.5 15.3 37.6 19.5 m m 10.7 m m	m (0.5) (0.9) (0.5) (0.9) (0.8) (0.8) (0.7) (0.8) m m (0.6) m m m (0.6) (0.6) (0.5) (0.5)	m 21.6 33.3 22.0 m 8.9 8.9 18.3 30.4 13.2 m m 64.1 m m m 20.8 68.0	m (0.5) (0.9) (0.8) m (0.7) (0.4) (0.6) (0.7) m m (1.1) m m m (0.7) (0.7) (0.7) co.	m 15.4 13.1 40.4 m 4.5 3.4 17.2 11.5 7.8 m m 18.4 m m	m (0.5) (0.9) (1.0) m (0.4) (0.3) (0.6) (0.4) (0.4) m m (0.7) m m m (0.7) m m (0.8) (0.5)	m 17.8 3.4 15.4 m 1.7 1.7 11.3 4.7 5.2 m m 3.4 m m m 10.6 3.3	r r (0.5.5) (0.4.4) (0.6.6) (0.6.6) (0.6.6) (0.7.7) (0.2.2) (0.7.7) (0.3.2) (0.7.7) (0.5.6) (0.6.7) (0.6.7) (0.6.7) (0.6.7) (0.6.7) (0.6.7) (0.6.7) (0.6.7) (0.6.7) (0.6.7) (0.6.7) (0.6.7) (0.6.7) (0.6.7) (0.6.7) (0.6.7)
Algeria Brazil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta	m 15.1 12.3 11.5 m 8.7 16.0 12.6 17.7 6.4 m m 15.9 m m 17.3 21.1	m (0.4) (0.5) (0.5) m (0.4) (0.5) (0.5) (0.5) (0.5) (0.5) m m (0.6) m m (0.6) m m m (0.6) (0.6) m	m 2.9 17.1 6.1 m 3.4 9.2 19.8 1.8 3.8 m m 2.0 m m 23.6 0.5 m	m (0.2) (1.3) (0.4) m (0.5) (0.5) (0.9) (0.2) (0.4) m m (0.2) m m m (0.2) m m m (1.0) (0.1) m	m 6.7 2.2 0.5 m 4.8 1.7 0.7 1.2 17.1 m m 0.5 m m	m (0.3) (0.2) (0.1) m (0.3) (0.2) (0.1) (0.2) (0.8) m (0.1) m m (0.1) m m (0.2) (0.1) m m m m m m m m m m m m m m m m m m m	m 16.2 10.0 5.4 m 60.1 41.6 17.4 12.8 33.3 m m 2.0 m m 9.4 2.8 m	m (0.5) (0.6) (0.5) (0.6) (0.5) m (1.3) (0.8) (0.7) (0.5) m m (0.2) m m m (0.2) m m m (0.5) (0.5) (0.5) m	m 19.4 20.9 10.2 m 16.7 33.5 15.3 37.6 19.5 m m 10.7 m m 10.7	m (0.5) (0.9) (0.5) m (0.8) (0.8) (0.5) (0.7) (0.8) m m (0.6) m m m (0.6) m m m (0.5) (0.5) m (0.5) m	m 21.6 33.3 22.0 m 8.9 8.9 18.3 30.4 13.2 m m 64.1 m m 20.8 68.0 m	m (0.5) (0.9) (0.8) m (0.7) (0.4) (0.6) (0.7) (0.7) m m (1.1) m m m (0.7) (0.7) m m m m m m m m m m m m m m m m m m m	m 15.4 13.1 40.4 m 4.5 3.4 17.2 11.5 7.8 m m 18.4 m m 21.9	m (0.5) (0.9) (1.0) m (0.4) (0.3) (0.6) (0.4) m m (0.7) m m (0.7) m m m (0.8) (0.6) (0.6) (0.5) m	m 17.8 3.4 15.4 15.7 1.7 11.7 11.3 4.7 5.2 m m 3.4 m m 10.6 3.3	1 (0.1.2) (1.1
Algeria Brazil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova	m 15.1 12.3 11.5 m 8.7 16.0 12.6 17.7 6.4 m m 15.9 m m m 17.3 21.1 m	m (0.4) (0.5) (0.5) m (0.4) (0.5) (0.5) (0.5) (0.5) m m (0.6) m m (0.6) m m m m (0.6) m m m m m m (0.6) m m m m m m (0.6) m m m m m m m m m m (0.6) m m m m m m m m m m m m m m m m m m m	m 2.9 17.1 6.1 m 3.4 9.2 19.8 1.8 3.8 m 1.0 m m 23.6 0.5 m m	m (0.2) (1.3) (0.4) m (0.4) (0.5) (0.9) (0.2) (0.4) m m (0.2) m m m (1.0) (0.1) m m m m (1.0) (0.1) m m m	m 6.7 2.2 0.5 m 4.8 1.7 0.7 1.2 17.1 m 0.5 m m 1.1 0.5 m m m m m m m m m m m m m m m m m m m	m (0.3) (0.2) (0.1) m (0.3) (0.2) (0.1) (0.2) (0.8) m (0.1) m m (0.1) m m (0.2) (0.1) m m m m m m (0.2) (0.1) m m m m m (0.2) (0.1) m m m m m m m m m m m m m m m m m m m	m 16.2 10.0 5.4 m 60.1 41.6 17.4 12.8 33.3 m m 2.0 m m m 9.4 2.8 m m	m (0.5) (0.6) (0.5) m (1.3) (0.8) (0.7) (0.5) (0.9) m m (0.2) m m (0.5) (0.3) m m m m m m m m m m m m m m m m m m m	m 19.4 20.9 10.2 m 16.7 33.5 15.3 37.6 19.5 m 10.7 m m 12.6 10.9	m (0.5) (0.9) (0.5) m (0.8) (0.8) (0.5) (0.7) (0.8) m m (0.6) m m m (0.5) (0.5) (0.5) (0.5) m m m m m (0.5) (0.5) m m m	m 21.6 33.3 22.0 m 8.9 8.9 18.3 30.4 13.2 m m 64.1 m m m 20.8 68.0 m m	m (0.5) (0.9) (0.8) m (0.7) (0.4) (0.6) (0.7) m m (1.1) m m m (0.7) (0.7) c (0.7) c (0.7) m m m m m m m m m m m m m m m m m m m	m 15.4 13.1 40.4 m 4.5 3.4 17.2 11.5 7.8 m 18.4 m m 21.9	m (0.5) (0.9) (1.0) m (0.4) (0.3) (0.6) (0.4) (0.4) m m (0.7) m m m (0.8) (0.5) m m m m (0.8) (0.5) m m m	m 17.8 3.4 15.4 m 1.7 1.7 11.3 4.7 5.2 m m 3.4 m m m 10.6 3.3 m	(0.3.) (1.1)
Algeria Brazil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta	m 15.1 12.3 11.5 m 8.7 16.0 12.6 17.7 6.4 m m 15.9 m m 17.3 21.1	m (0.4) (0.5) (0.5) m (0.4) (0.5) (0.5) (0.5) (0.5) (0.5) m m (0.6) m m (0.6) m m m (0.6) (0.6) m	m 2.9 17.1 6.1 m 3.4 9.2 19.8 1.8 3.8 m m 2.0 m m 23.6 0.5 m	m (0.2) (1.3) (0.4) m (0.5) (0.5) (0.9) (0.2) (0.4) m m (0.2) m m m (0.2) m m m (1.0) (0.1) m	m 6.7 2.2 0.5 m 4.8 1.7 0.7 1.2 17.1 m m 0.5 m m	m (0.3) (0.2) (0.1) m (0.3) (0.2) (0.1) (0.2) (0.8) m (0.1) m m (0.1) m m (0.2) (0.1) m m m m m m m m m m m m m m m m m m m	m 16.2 10.0 5.4 m 60.1 41.6 17.4 12.8 33.3 m m 2.0 m m 9.4 2.8 m	m (0.5) (0.6) (0.5) (0.6) (0.5) m (1.3) (0.8) (0.7) (0.5) m m (0.2) m m m (0.2) m m m (0.5) (0.5) (0.5) m	m 19.4 20.9 10.2 m 16.7 33.5 15.3 37.6 19.5 m m 10.7 m m 10.7	m (0.5) (0.9) (0.5) m (0.8) (0.8) (0.5) (0.7) (0.8) m m (0.6) m m m (0.6) m m m (0.5) (0.5) m (0.5) m	m 21.6 33.3 22.0 m 8.9 8.9 18.3 30.4 13.2 m m 64.1 m m 20.8 68.0 m	m (0.5) (0.9) (0.8) m (0.7) (0.4) (0.6) (0.7) (0.7) m m (1.1) m m m (0.7) (0.7) m m m m m m m m m m m m m m m m m m m	m 15.4 13.1 40.4 m 4.5 3.4 17.2 11.5 7.8 m m 18.4 m m 21.9	m (0.5) (0.9) (1.0) m (0.4) (0.3) (0.6) (0.4) m m (0.7) m m (0.7) m m m (0.8) (0.6) (0.6) (0.5) m	m 17.8 3.4 15.4 15.7 1.7 11.7 11.3 4.7 5.2 m m 3.4 m m 10.6 3.3	1 (0.3.)
Algeria Brazil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro	m 15.1 12.3 11.5 m 8.7 16.0 12.6 17.7 6.4 m m 15.9 m m m m m 17.3 21.1 m	m (0.4) (0.5) (0.5) m (0.4) (0.5) (0.5) (0.5) (0.5) (0.5) m m (0.6) m m m (0.6) (0.6) m m m (0.4)	m 2.9 17.1 6.1 m 3.4 9.2 19.8 1.8 3.8 m m 1.0 m m m m m 23.6 0.5 m m 27.2	m (0.2) (1.3) (0.4) m (0.4) m (0.5) (0.9) (0.2) (0.4) m m (0.2) m m m (1.0) (0.1) m m m (1.0) (0.1) m m m (0.6)	m 6.7 2.2 2.2 0.5 m 4.88 1.7 0.7 1.2 17.1 m m 0.5 m m m 1.1 0.5 m m m 1.1 1.1	m (0.3) (0.2) (0.1) m (0.3) (0.2) (0.1) (0.2) (0.8) m m (0.1) m m m (0.2) (0.1) m m (0.2) (0.1) m m (0.2) (0.1) m m (0.2) (0.1) m m m (0.1) m m m (0.1) m m m (0.1)	m 16.2 10.0 5.4 m 60.1 41.6 17.4 12.8 33.3 m m 2.0 m m m 11.8	m (0.5) (0.6) m (1.3) (0.8) (0.7) (0.5) (0.9) m (0.2) m m (0.5) (0.3) m m (0.5) (0.3) m m (0.5) (0.3)	m 19.4 20.9 10.2 m 16.7 33.5 15.3 37.6 19.5 m m 10.7 m m m 12.6 10.9 m m 19.5	m (0.5) (0.9) (0.5) m (0.8) (0.5) (0.7) (0.8) m m (0.6) m m m (0.5) (0.5) m m (0.6)	m 21.6 33.3 22.0 m 8.9 8.9 18.3 30.4 13.2 m m 64.1 m m m 20.8 68.0 m m 20.9	(0.5) (0.9) (0.8) m (0.7) (0.4) (0.6) (0.7) m m (0.7) (0.7) m m (0.7) (0.7) m m (0.7) (0.7) m m (0.6)	m 15.4 13.1 40.4 m 4.5 3.4 17.2 11.5 7.8 m m 18.4 m m m 21.9 14.0 m	m (0.5) (0.9) (1.0) m (0.4) (0.3) (0.6) (0.4) (0.4) m m (0.7) m m m (0.8) (0.5) m m (0.5)	m 17.8 3.4 m 1.7 11.3 4.7 5.2 m m 3.4 m m m m 10.6 3.3 m m 6.7	1 1 (0.2.0) 1 1 1 (1.0.0) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Algeria Brazil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania	m 15.1 12.3 11.5 m 8.7 16.0 12.6 17.7 6.4 m m 15.9 m m m 17.3 21.1 m 8.3 5.7	m (0.4) (0.5) m (0.4) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) m m (0.6) m m (0.6) m m (0.6) m m (0.6) m (0.6) (0.6) (0.6) m (0.6)	m 2.9 17.1 6.1 m 3.4 9.2 19.8 1.8 3.8 m 1.0 m m m 23.6 0.5 m m 27.2 4.6	m (0.2) (1.3) (0.4) m (0.4) (0.5) (0.9) (0.2) (0.4) m m (0.2) m m m (1.0) (0.1) m m (0.6) (0.4)	m 6.7 2.2 2.2 0.5 m 4.8 1.7 0.7 1.2 17.1 m m 0.5 m m m 1.1 0.5 m m 1.1 2.4 3.0 m	m (0.3) (0.2) (0.1) m (0.3) (0.2) (0.1) (0.2) (0.8) m m (0.1) m m m (0.2) (0.1) m m (0.2) (0.1) (0.2) (0.1) (0.2)	m 16.2 10.0 5.4 m 60.1 41.6 17.4 12.8 33.3 m m 2.0 m m m m 9.4 2.8 m m 11.8 17.7 23.9 m	m (0.5) (0.6) m (1.3) (0.8) (0.7) (0.5) (0.9) m m (0.2) m m m (0.5) (0.3) m m (0.5) (0.7) (0.5) (0.7)	m 19.4 20.9 10.2 m 16.7 33.5 15.3 37.6 19.5 m m 10.7 m m m 12.6 10.9 m m 19.5 30.0 37.7 m	m (0.5) (0.9) (0.8) (0.8) (0.5) (0.7) (0.8) m m (0.6) m m m (0.5) (0.5) m m m (0.5) (0.5) m m (0.6) (0.8)	m 21.6 33.3 22.0 m 8.9 8.9 18.3 30.4 13.2 m m 64.1 m m 20.8 68.0 m m 20.9 33.1	m (0.5) (0.9) (0.8) m (0.7) (0.4) (0.6) (0.7) m m (1.1) m m m (0.7) (0.7) m m m (0.7) (0.7) m m m (0.7) (0.7) m m (0.6) (0.9)	m 15.4 13.1 40.4 m 4.5 3.4 17.2 11.5 7.8 m m 18.4 m m 21.9 14.0 m m	m (0.5) (0.9) (1.0) m (0.4) (0.3) (0.6) (0.4) (0.4) m m (0.7) m m m (0.8) (0.5) m m (0.5) (0.5) (0.5) (0.4)	m 17.8 3.4 m 1.7 11.3 4.7 5.2 m m 3.4 m m m 10.6 3.3 m m 6.7 3.5 3.3 m	1 (0)
Algeria Brazil Br-zil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia	m 15.1 12.3 11.5 m 8.7 16.0 12.6 17.7 6.4 m m 15.9 m m m 17.3 21.1 m 8.3 5.7 18.3 m	m (0.4) (0.5) m (0.6) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) m m (0.6) m m m (0.6) (0.6) m m (0.4) (0.3) (0.4) m (0.7)	m 2.9 17.1 6.1 m 3.4 9.2 19.8 1.8 3.8 m m 1.0 m m m 23.6 0.5 m m 27.2 4.6 14.3 m 14.0	m (0.2) (1.3) (0.4) m (0.4) (0.5) (0.9) (0.2) (0.4) m m (0.2) m m m (1.0) (0.1) m m (0.6) (0.4) (0.3) m (1.2)	m 6.7 2.2 0.5 m 4.8 1.7 0.7 1.2 17.1 m m 0.5 m m m 1.1 0.5 m m m 1.1 2.4 3.0 m 0.3	m (0.3) (0.2) (0.1) m (0.3) (0.2) (0.1) (0.2) (0.8) m m (0.1) m m m (0.2) (0.1) m m (0.2) (0.2) (0.2) (0.2) (0.2) m (0.1)	m 16.2 10.0 5.4 m 60.1 41.6 17.4 12.8 33.3 m m 2.0 m m m 11.8 17.7 23.9 m 2.3	m (0.5) (0.6) m (1.3) (0.5) (0.7) (0.5) m m (0.2) m m m (0.5) (0.3) m m (0.5) (0.7) (0.4) m m (0.5) (0.7) (0.4) m m (0.3)	m 19.4 20.9 10.2 m 16.7 33.5 15.3 37.6 19.5 m m 10.7 m m m 12.6 10.9 m m 19.5 30.0 37.7 m 5.8	m (0.5) (0.9) (0.8) (0.8) (0.6) m m m m (0.5) (0.5) m m (0.6) (0.5) (0.5) m m (0.6) (0.8) (0.5) m m (0.6) (0.8) (0.5) m (0.6) (0.8) (0.5) m (0.3)	m 21.6 33.3 22.0 m 8.9 8.9 18.3 30.4 13.2 m m 64.1 m m m 20.8 68.0 m m 20.9 33.1 13.0 m 17.2	m (0.5) (0.9) (0.8) m (0.7) (0.7) m m (0.7) (0.7) m m (0.7) (0.7) m m (0.6) (0.9) (0.3) m (0.8)	m 15.4 13.1 40.4 m 4.5 3.4 17.2 11.5 7.8 m m 18.4 m m m 121.9 8.8 4.8 m 33.4	m (0.5) (0.9) (1.0) m (0.4) (0.3) (0.6) (0.4) (0.4) m m (0.7) m m m (0.8) (0.5) m m (0.5) (0.4) (0.2) m (1.0)	m 17.8 3.4 15.4 m 1.7 11.3 4.7 5.2 m m 3.4 m m m 10.6 3.3 m m m 6.7 3.5 3.3 m 26.9	(0.2.2) (0.2.2
Algeria Brazil Br-zil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore	m 15.1 12.3 11.5 m 8.7 16.0 12.6 17.7 6.4 m 15.9 m m m 17.3 21.1 m m 8.3 5.7 18.3 m 12.1 24.5	m (0.4) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.6) m m (0.6) m m (0.6) (0.6) m m (0.6) (0.6) m m (0.4) (0.3) (0.4) m (0.7) (0.6)	m 2.9 17.1 m 3.4 9.2 19.8 1.8 3.8 m 1.0 m m 23.6 0.5 m m 27.2 4.6 14.3 m 14.0 1.1	m (0.2) (1.3) (0.4) m (0.4) (0.5) (0.9) (0.2) (0.4) m m (0.2) m m m (1.0) (0.1) m m (0.6) (0.4) (0.3) m m (1.2) (0.2)	m 6.7 2.2 0.5 m 4.8 1.7 0.7 1.2 17.1 m 0.5 m m 1.1 0.5 m m 1.1 2.4 3.0 m 0.3 0.5	m (0.3) (0.2) (0.1) m (0.3) (0.2) (0.1) (0.2) (0.8) m m (0.1) m m m (0.2) (0.1) (0.1) (0.2) (0.2) m (0.1) (0.1) (0.2) (0.2) m (0.1) (0.1) (0.1)	m 16.2 10.0 5.4 m 60.1 41.6 17.4 12.8 33.3 m 2.0 m m m 9.4 2.8 m m 11.8 m 17.7 23.9 m 2.3 4.1	m (0.5) (0.6) (0.5) (0.6) (0.5) (0.7) (0.5) (0.9) m m (0.2) m m m (0.5) (0.3) m m m (0.5) (0.7) (0.4) m (0.5) (0.7) (0.4) m (0.3) (0.3) (0.3)	m 19.4 20.9 10.2 m 16.7 33.5 15.3 37.6 19.5 m m 10.7 m m m 12.6 10.9 m m 15.8 30.0 37.7 m m 25.8 23.1	m (0.5) (0.9) (0.8) (0.6) (0.6) m m m m (0.5) (0.5) m m (0.6) m m m (0.5) (0.5) m m (0.6) m m m (0.5) m m (0.6) m (0.6) (0.8) (0.5) m m (0.6) (0.8) (0.6)	m 21.6 33.3 22.0 m 8.9 8.9 18.3 30.4 13.2 m 64.1 m m 20.8 68.0 m m 20.9 33.1 13.0 m 17.2 36.4	m (0.5) (0.9) (0.8) m (0.7) (0.4) (0.6) (0.7) m m (1.1) m m m (0.7) (0.7) m m (0.6) (0.7) (0.7) m m (0.6) (0.9) (0.3) m (0.8) (0.8)	m 15.4 13.1 40.4 m 4.5 3.4 17.2 11.5 7.8 m m 18.4 m m m 121.9 14.0 m m 12.9 8.8 4.8 m 33.4 25.2	m (0.5) (0.9) (1.0) m (0.4) (0.3) (0.6) (0.4) (0.4) m m (0.7) m m m (0.8) (0.5) m m (0.5) (0.4) (0.2) m (1.0) (0.7)	m 17.8 3.4 15.4 m 1.7 1.7 11.3 4.7 5.2 m m 3.4 m m m m 10.6 3.3 m m 6.7 3.5 3.3 m g 26.9 9.6	(0.2.1) (1.2.2) (1.2.2) (1.2.2) (1.2.2) (1.2.2) (1.2.2) (1.2.2) (1.2.2) (1.2.2) (1.2.2) (1.2.2) (1.2.2) (1.2.2) (1.2.2) (1.2.2) (1.2.2)
Algeria Brazil Br-zil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei	m 15.1 12.3 11.5 m 8.7 16.0 12.6 17.7 6.4 m m 15.9 m m m 17.3 21.1 m m 8.3 7 18.3 m 12.4 5 7	m (0.4) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.6) (0.6) (0.6) (0.6) (0.6) (0.6) (0.6) (0.6) (0.6) (0.6) (0.5)	m 2.9 17.1 6.1 m 3.4 9.2 19.8 1.8 3.8 m 1.0 m m 23.6 0.5 m m 27.2 4.6 14.3 m 14.0 1.1 1.8	m (0.2) (1.3) (0.4) (0.5) (0.9) (0.2) (0.4) m m (0.2) m m m (1.0) (0.1) m m (0.6) (0.4) (0.3) m m (1.2) (0.2) (0.2) (0.2) (0.2)	m 6.7 2.2 0.5 m 4.8 1.7 0.7 1.2 17.1 m 0.5 m m 1.1 0.5 m m 1.1 2.4 3.0 m 0.3 0.5 0.5	m (0.3) (0.2) (0.1) m (0.3) (0.2) (0.8) m (0.1) m m (0.2) (0.1) (0.2) (0.1) (0.2) (0.1) m m (0.1) m m (0.1) (0.2) (0.2) (0.1) (0.1) (0.1) (0.1)	m 16.2 10.0 5.4 m 60.1 41.6 17.4 12.8 33.3 m m 2.0 m m m 9.4 2.8 m m 11.8 17.7 23.9 m 2.3 4.1 9.9	m (0.5) (0.6) (0.5) (0.6) (0.5) (0.8) (0.7) (0.5) (0.9) m (0.2) m m (0.5) (0.3) m (0.5) (0.7) (0.4) m (0.3) (0.4)	m 19.4 20.9 10.2 m 16.7 33.5 15.3 37.6 19.5 m 10.7 m m 12.6 10.9 m m 19.5 30.0 37.7 m 5.8 23.1 32.6	m (0.5) (0.9) (0.8) (0.8) (0.6) m m (0.6) m m (0.5) (0.5) (0.5) (0.5) m (0.6) m m (0.6) m m (0.6) m m (0.6) (0.5) (0.5) m (0.3) (0.5) (0.5) m (0.3) (0.6) (0.7)	m 21.6 33.3 22.0 m 8.9 8.9 18.3 30.4 13.2 m 64.1 m m 20.8 68.0 m m 20.9 33.1 13.0 m 17.2 36.4 33.4	m (0.5) (0.9) (0.8) m (0.7) (0.4) (0.6) (0.7) m m (1.1) m m m (0.7) (0.7) m m (0.6) (0.9) (0.3) m (0.8) (0.8) (0.8) (0.8)	m 15.4 13.1 40.4 m 4.5 3.4 17.2 11.5 7.8 m 18.4 m m 21.9 14.0 m m 12.9 8.8 m 33.4 25.2 14.3	m (0.5) (0.9) (1.0) m (0.4) (0.3) (0.6) (0.4) (0.4) m m (0.7) m m m (0.8) (0.5) m (0.4) (0.2) m (1.0) (0.2) m (1.0) (0.7) (0.5)	m 17.8 3.4 15.4 m 1.7 11.3 4.7 5.2 m m 3.4 m m m 10.6 3.3 m m 6.7 3.5 3.3 m 26.9 9.6 7.4	(0.3.) (0.3.)
Algeria Brazil Br-zil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand	m 15.1 12.3 11.5 m 8.7 16.0 12.6 17.7 6.4 m m 15.9 m m m 17.3 21.1 m 8.3 5.7 18.3 5.7 18.1 24.5 24.9 6.4	m (0.4) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.6) m m (0.6) (0.6) m m (0.6) (0.6) m m (0.4) (0.3) (0.4) m (0.7) (0.6) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5)	m 2.9 17.1 6.1 m 3.4 9.2 19.8 1.8 3.8 m m 1.0 m m m m 23.6 0.5 m m 27.2 4.6 14.3 m 14.0 1.1 1.8 0.6	m (0.2) (1.3) (0.4) m (0.4) (0.5) (0.9) (0.2) (0.4) m m (0.2) m m m (1.0) (0.1) m m (0.6) (0.4) (0.3) m (1.2) (0.2) (0.2) (0.2) (0.2) (0.2)	m 6.7 2.2 2.2 0.5 m 4.88 1.7 0.7 1.2 17.1 m m 0.5 m m 1.1 0.5 m m 1.1 2.4 3.0 m 0.3 0.5 1.4	m (0.3) (0.2) (0.1) m (0.3) (0.2) (0.1) (0.2) (0.8) m m (0.1) m m (0.2) (0.1) m m (0.1) (0.2) (0.2) (0.2) (0.1) (0.2) (0.2) (0.2) m (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1)	m 16.2 10.0 5.4 m 60.1 17.4 12.8 33.3 m m 2.0 m m m m m m 11.8 17.7 23.9 m 2.3 4.1 9.9 7.0	m (0.5) (0.6) (0.5) (0.6) (0.5) (0.7) (0.5) (0.9) m m (0.2) m m m (0.5) (0.3) m m (0.5) (0.7) (0.4) (0.4) (0.4)	m 19.4 20.9 10.2 m 16.7 33.5 15.3 37.6 19.5 m m 10.7 m m m 12.6 10.9 m m 19.5 30.0 37.7 m 19.5 32.6 37.2	m (0.5) (0.9) (0.5) m (0.8) (0.5) (0.7) (0.8) m m (0.6) m m m (0.5) (0.5) m m m (0.6) (0.8) (0.5) m (0.6) (0.8) (0.6) (0.8) (0.7) (1.2)	m 21.6 33.3 22.0 m 8.9 8.9 18.3 30.4 13.2 m m 64.1 m m 20.8 68.0 m m 20.9 33.1 13.0 m 17.2 36.4 33.4 36.1	(0.5) (0.9) (0.8) m (0.7) (0.7) m m (0.7) (0.7) m m (0.7) (0.7) m m (0.6) (0.9) (0.8) (0.8) (0.8) (0.8) (0.8) (0.6) (1.1)	m 15.4 13.1 40.4 m 4.5 3.4 17.2 11.5 7.8 m m 18.4 m m m 12.9 8.8 4.8 m 33.4 25.2 14.3 13.7	m (0.5) (0.9) (1.0) m (0.4) (0.3) (0.6) (0.4) (0.4) m m (0.7) m m m (0.8) (0.5) m m (0.5) (0.4) (0.2) m (0.5) (0.4) (0.5) m (0.5) (0.5) m (0.5) m (0.5) (0.5) m (0.5) (0.5) m (0.5) (0.5) m (0.5) (0.5)	m 17.8 3.4 m 1.7 11.3 4.7 5.2 m m 3.4 m m m 10.6 3.3 m m 6.7 3.5 3.3 m 26.9 9.6 7.4 3.9	(0.3.2) (0.3.2
Algeria Brazil Br-zil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Cyprus Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	m 15.1 12.3 11.5 m 8.7 16.0 12.6 17.7 6.4 m m 15.9 m m m m m m m m m m m m m m 17.3 21.1 m 18.3 m 12.1 24.5 24.9 6.4 m	m (0.4) (0.5) m (0.4) (0.5) (0.5) (0.5) (0.5) m m (0.6) m m (0.6) m m (0.6) (0.6) m m (0.4) (0.3) (0.4) m (0.7) (0.6) (0.5) (0.5) (0.4) m	m 2.9 17.1 6.1 m 3.4 9.2 19.8 1.8 3.8 m m 1.0 m m m 23.6 0.5 m m 14.0 1.1 1.8 0.6 m	m (0.2) (1.3) (0.4) m (0.4) (0.5) (0.9) (0.2) (0.4) m m (0.2) m m m (1.0) (0.1) m m (0.6) (0.4) (0.3) m (1.2) (0.2) (0.2) (0.2) (0.2) (0.1) m	m 6.7 2.2 0.5 m 4.8 1.7 0.7 1.2 17.1 m m 0.5 m m 1.1 2.4 3.0 m 0.3 0.5 0.5 1.4 m	m (0.3) (0.2) (0.1) m (0.3) (0.2) (0.1) (0.2) (0.1) m m (0.1) m m (0.2) (0.1) (0.2) (0.2) (0.1) (0.1) (0.2) (0.2) m (0.1) (0.1) (0.1) (0.1) (0.1) (0.1)	m 16.2 10.0 5.4 m 60.1 41.6 17.4 12.8 33.3 m m 2.0 m m m m m m m m m m m m m m m m m m m	m (0.5) (0.6) m (1.3) (0.8) (0.7) (0.5) (0.9) m m (0.2) m m m (0.5) (0.3) m m (0.5) (0.7) (0.4) m (0.3) (0.4) (0.4) m m (0.5) (0.7) (0.4) m m m (0.5) (0.7) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) m m (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) m m (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) m m m (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) m m m (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) (0.8) m m m (0.8) (0.8	m 19.4 20.9 10.2 m 16.7 33.5 15.3 37.6 19.5 m m 10.7 m m m 12.6 10.9 m m 5.8 23.1 32.6 37.2 m	m (0.5) (0.9) (0.8) (0.8) (0.5) (0.7) (0.8) m m m m m m m m m m m m m m m m m m m	m 21.6 33.3 22.0 m 8.9 8.9 18.3 30.4 13.2 m m 64.1 m m m 20.8 68.0 m m 17.2 36.4 33.4 36.1 m	m (0.5) (0.9) (0.8) m (0.7) (0.7) m m (0.7) (0.7) m m (0.6) (0.7) (0.7) m m (0.6) (0.9) (0.3) m (0.8) (0.8) (0.6) (1.1) m	m 15.4 13.1 40.4 m 4.5 3.4 17.2 11.5 7.8 m m 18.4 m m m 121.9 8.8 4.8 m 33.4 25.2 14.3 13.7 m	m (0.5) (0.9) (1.0) m (0.4) (0.3) (0.6) (0.4) (0.4) m m (0.7) m m m (0.8) (0.5) m (0.5) (0.4) (0.2) m (1.0) (0.7) (0.5) (0.5) (0.5) m	m 17.8 3.4 15.4 m 1.7 11.3 4.7 5.2 m m 3.4 m m m m m m m m 26.9 9.6 7.4 3.9 m	(0.3.) (0.3.)
Algeria Brazil Br-zil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	m 15.1 12.3 11.5 m 8.7 16.0 12.6 17.7 6.4 m 15.9 m m m 17.3 21.1 m m 8.3 5.7 18.3 m 12.1 24.5 24.9 6.4 m 6.2	m (0.4) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.6) (0.6) (0.6) (0.6) (0.6) (0.6) (0.6) (0.7) (0.6) (0.7) (0.6) (0.7) (0.6) (0.5) (0.4) (0.7) (0.6) (0.5) (0.4) (0.7) (0.6) (0.5) (0.4) (0.5) (0.4) (0.5) (0.4)	m 2.9 17.1 m 3.4 9.2 19.8 1.8 3.8 m 1.0 m m 23.6 0.5 m m 24.6 14.3 m 14.0 m 11.1 1.8 0.6 m 8.9	m (0.2) (1.3) (0.4) m (0.4) (0.5) (0.9) (0.2) (0.4) m m (0.2) m m m (1.0) (0.1) m m (0.6) (0.4) (0.3) m m (1.2) (0.2) (0.2) (0.1) m (0.7)	m 6.7 2.2 0.5 m 4.8 1.7 0.7 1.2 17.1 m 0.5 m m 1.1 0.5 m m 1.1 2.4 3.0 m 0.3 0.5 0.5 1.4 m 4.7	m (0.3) (0.2) (0.1) m (0.3) (0.2) (0.8) m (0.1) m m (0.2) (0.1) (0.1) (0.2) (0.1) (0.1) (0.2) (0.2) m (0.1) (0.2) (0.2) m (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) m (0.3)	m 16.2 10.0 5.4 m 60.1 41.6 17.4 12.8 33.3 m 2.0 m m m 9.4 2.8 m m 11.8 m 17.7 23.9 m 2.3 4.1 9.9 7.0 m 44.3	m (0.5) (0.6) (0.5) (0.6) (0.5) (0.6) (0.5) (0.7) (0.5) (0.9) m (0.2) m m (0.5) (0.3) m m (0.5) (0.7) (0.4) m (0.3) (0.4) (0.4) m (0.8)	m 19.4 20.9 10.2 m 16.7 33.5 15.3 37.6 19.5 m 10.7 m m 12.6 10.9 m m 12.6 10.9 m m 12.6 10.9 m m 19.5 10.0 37.7 m 10.7 m 10.7 m 10.7 m 10.9 m 10.7 m 10.9 m	m (0.5) (0.9) (0.8) (0.8) (0.6) (0.6) m m m (0.6) m m m (0.5) (0.5) m m (0.6) m m m (0.5) (0.5) m m (0.6) (0.8) (0.7) (1.2) m (0.7)	m 21.6 33.3 22.0 m 8.9 8.9 18.3 30.4 13.2 m 64.1 m m 20.8 68.0 m m 13.0 m 17.2 36.4 33.4 36.1 m 12.9	m (0.5) (0.9) (0.8) m (0.7) (0.4) (0.6) (0.7) m m (1.1) m m m (0.7) (0.7) m m (0.6) (0.9) (0.3) m (0.8) (0.8) (0.6) (1.1) m (0.6)	m 15.4 13.1 40.4 m 4.5 3.4 17.2 11.5 7.8 m 18.4 m m 12.9 14.0 m m 12.9 14.0 m 33.4 4.8 m 33.4 25.2 14.3 13.7 m 3.2	m (0.5) (0.9) (1.0) m (0.4) (0.3) (0.6) (0.4) (0.4) m m (0.7) m m m (0.8) (0.5) m m (0.5) (0.4) (0.2) m (1.0) (0.7) (0.5) (0.5) m (0.3) (0.7) (0.5) m (0.3)	m 17.8 3.4 15.4 m 1.7 1.1.3 4.7 5.2 m 3.4 m m 10.6 3.3 m m 26.9 6.7 4 3.9 m 1.5	(0.2) (0.2)
Algeria Brazil Br-zil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	m 15.1 12.3 11.5 m 8.7 16.0 12.6 17.7 6.4 m 15.9 m m m 17.3 22.1 m m m 8.3 5.7 18.3 m 12.1 24.5 24.9 6.4 m 6.2 16.2	m (0.4) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.6) m m (0.6) (0.6) m m (0.4) (0.3) (0.4) m (0.7) (0.6) (0.5) (0.4) m (0.7) (0.6) (0.7)	m 2.9 17.1 6.1 m 3.4 9.2 19.8 1.8 3.8 m 1.0 m m 23.6 0.5 m m 27.2 4.6 14.3 m 14.0 1.1 1.8 0.6 m 8.9 7.4	m (0.2) (1.3) (0.4) (0.5) (0.9) (0.2) (0.4) m m (0.2) m m m (1.0) (0.1) m m (0.6) (0.4) (0.3) m m (1.2) (0.2) (0.2) (0.1) m m (1.0) (0.3) m m (1.0) (0.3) m m (1.0) (0.3) m m (1.0) (0.3) (0.2) (0.3) (0.2) (0.3) m m (0.6) (0.4) m m (0.7) (0.3)	m 6.7 2.2 0.5 m 4.8 1.7 0.7 1.2 17.1 m 0.5 m m 1.1 0.5 m m 1.1 2.4 3.0 m 0.3 0.5 1.4 m 4.7 3.1	m (0.3) (0.2) (0.1) m (0.3) (0.2) (0.1) (0.2) (0.8) m m (0.1) (0.2) (0.1) m m (0.1) (0.2) (0.2) (0.1) m (0.1) (0.2) m (0.1) (0.1) (0.2) m (0.1) (0.2) m (0.1) (0.2) m (0.1) (0.2) m (0.2) m (0.3) (0.2)	m 16.2 10.0 5.4 m 60.1 41.6 17.4 12.8 33.3 m m 2.0 m m m 9.4 2.8 m m 11.8 123.9 m 2.3 4.1 9.9 7.0 m 44.3 20.9	m (0.5) (0.6) (0.7) (0.5) (0.9) m (0.2) m m (0.5) (0.5) (0.7) (0.5) (0.9) m m (0.5) (0.3) (0.4) (0.4) m (0.3) (0.4) (0.4) m (0.8) (0.5)	m 19.4 20.9 10.2 m 16.7 33.5 15.3 37.6 19.5 m m 10.7 m m m 12.6 10.9 m m 19.5 30.0 37.7 m 24.6 37.2 m 24.6 50.8	m (0.5) (0.9) (0.8) (0.8) (0.6) m m (0.6) m m (0.5) (0.5) (0.5) (0.5) m (0.6) m m (0.6) m m (0.6) (0.7) (1.2) m (0.7) (0.7) (0.7)	m 21.6 33.3 22.0 m 8.9 8.9 18.3 30.4 13.2 m m 64.1 m m 20.8 68.0 m m 20.9 33.1 13.0 m 17.2 36.4 36.1 m 12.9 12.6	(0.5) (0.9) (0.8) m (0.7) (0.7) m m (0.7) (0.7) m m (0.7) (0.7) m m (0.6) (0.9) (0.8) (0.8) (0.8) (0.6) (1.1) m (0.6) (0.5)	m 15.4 13.1 40.4 m 4.5 3.4 17.2 11.5 7.8 m m 18.4 m m m 21.9 8.8 4.8 m 33.4 25.2 14.3 13.7 m 3.2 3.4	m (0.5) (0.9) (1.0) m (0.4) (0.3) (0.6) (0.4) (0.4) m m (0.7) m m m (0.8) (0.5) (0.4) (0.2) m (1.0) (0.5) (0.5) m (0.3) (0.2)	m 17.8 3.4 m 1.7 11.3 4.7 5.2 m m 3.4 m m m 10.6 3.3 m m 6.7 3.5 3.3 m 26.9 9.6 6.7 4.4 3.9 m 1.5 1.8	(0.9.3) (0.2.4
Algeria Brazil Br-zil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	m 15.1 12.3 11.5 m 8.7 16.0 12.6 17.7 6.4 m m 15.9 m m m m m 17.3 21.1 m m 8.3 5.7 18.3 m 12.1 24.5 24.9 6.4 m 6.2 16.2 6.0	m (0.4) (0.5) (0.5) m (0.4) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) m m (0.6) m m m (0.6) (0.6) m m (0.4) (0.3) (0.4) m (0.7) (0.6) (0.5) (0.5) (0.5) (0.7) (0.6) (0.5) (0.4) m (0.4) (0.4) (0.4) (0.4) (0.4) (0.4)	m 2.9 17.1 6.1 m 3.4 9.2 19.8 1.8 3.8 m m 1.0 m m m m 23.6 0.5 m m 27.2 4.6 14.3 m 14.0 1.1 1.8 0.6 m 8.9 7.4 0.8	m (0.2) (1.3) (0.4) m (0.4) (0.5) (0.9) (0.2) (0.4) m m (0.2) m m m (1.0) (0.1) m m (0.6) (0.4) (0.3) m (1.2) (0.2) (0.2) (0.2) (0.2) (0.1) m (0.7) (0.3) (0.1) m (0.7) (0.3) (0.2)	m 6.7 2.2 2.2 0.5 m 4.8 1.7 0.7 1.2 17.1 m m 0.5 m m m 1.1 0.5 m m 1.1 2.4 3.0 m 0.3 0.5 0.5 1.4 m 4.7 3.1 3.4	m (0.3) (0.2) (0.1) m (0.3) (0.2) (0.1) (0.2) (0.8) m m (0.1) (0.2) (0.1) m m (0.1) (0.2) (0.2) m (0.1) (0.1) (0.1) (0.1) (0.1) (0.2) (0.2) m (0.3) (0.2) (0.2)	m 16.2 10.0 5.4 m 60.1 17.4 12.8 33.3 m m 2.0 m m m m m m m 11.8 17.7 23.9 m 2.3 4.1 9.9 7.0 m 44.3 20.9 11.5	m (0.5) (0.6) m (1.3) (0.8) (0.7) (0.5) (0.9) m m (0.2) m m (0.5) (0.3) m m (0.5) (0.7) (0.4) m (0.3) (0.3) (0.4) m (0.4) m (0.5) (0.5) (0.5)	m 19.4 20.9 10.2 m 16.7 33.5 15.3 37.6 19.5 m m 10.7 m m m 12.6 10.9 m m 19.5 30.0 37.7 m 5.8 23.1 32.6 50.8 40.6	m (0.5) (0.9) (0.8) (0.5) (0.7) (0.8) (0.6) (0.7) (0.8) (0.6) (0.7) (0.8) (0.6) (0.7) (0.8) (0.6) (0.7) (0.8) (0.7) (0.7) (0.8)	m 21.6 33.3 22.0 m 8.9 8.9 18.3 30.4 13.2 m m 64.1 m m m 20.8 68.0 m m 17.2 36.4 33.4 36.1 m 12.9 12.6 24.6	m (0.5) (0.9) (0.8) m (0.7) (0.7) m m (0.6) (0.7) (0.7) m m (0.6) (0.7) (0.7) m m (0.6) (0.9) (0.3) m (0.8) (0.8) (0.6) (0.5) (0.7)	m 15.4 13.1 40.4 m 4.5 3.4 17.2 11.5 7.8 m m 18.4 m m m 21.9 8.8 4.8 m 33.4 25.2 14.3 13.7 m 3.2 3.4 13.0	m (0.5) (0.9) (1.0) m (0.4) (0.3) (0.6) (0.4) (0.4) m m (0.7) m m (0.8) (0.5) m m (0.5) (0.4) (0.2) m (0.5) (0.5) m (0.5) (0.6) (0.5) m (0.6) (0.7) (0.5) m (0.6) (0.7) (0.5) m (0.6) (0.6)	m 17.8 3.4 m 1.7 11.3 4.7 5.2 m m 3.4 m m m m 10.6 3.3 m m 6.7 3.5 3.3 m m 26.9 9.6 7.4 3.9 m 1.5 6.2	(0.9.4) (0.9.4
Algeria Brazil Br-zil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia Unuguay Viet Nam	m 15.1 12.3 11.5 m 8.7 16.0 12.6 17.7 6.4 m 15.9 m m m 17.3 22.1 m m m 8.3 5.7 18.3 m 12.1 24.5 24.9 6.4 m 6.2 16.2	m (0.4) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) (0.6) m m (0.6) (0.6) m m (0.4) (0.3) (0.4) m (0.7) (0.6) (0.5) (0.4) m (0.7) (0.6) (0.7)	m 2.9 17.1 6.1 m 3.4 9.2 19.8 1.8 3.8 m 1.0 m m 23.6 0.5 m m 27.2 4.6 14.3 m 14.0 1.1 1.8 0.6 m 8.9 7.4	m (0.2) (1.3) (0.4) (0.5) (0.9) (0.2) (0.4) m m (0.2) m m m (1.0) (0.1) m m (0.6) (0.4) (0.3) m m (1.2) (0.2) (0.2) (0.1) m m (1.0) (0.3) m m (1.0) (0.3) m m (1.0) (0.3) m m (1.0) (0.3) (0.2) (0.3) (0.2) (0.3) m m (0.6) (0.4) m m (0.7) (0.3)	m 6.7 2.2 0.5 m 4.8 1.7 0.7 1.2 17.1 m 0.5 m m 1.1 0.5 m m 1.1 2.4 3.0 m 0.3 0.5 1.4 m 4.7 3.1	m (0.3) (0.2) (0.1) m (0.3) (0.2) (0.1) (0.2) (0.8) m m (0.1) (0.2) (0.1) m m (0.1) (0.2) (0.2) (0.1) m (0.1) (0.2) m (0.1) (0.1) (0.2) m (0.1) (0.2) m (0.1) (0.2) m (0.1) (0.2) m (0.2) m (0.3) (0.2)	m 16.2 10.0 5.4 m 60.1 41.6 17.4 12.8 33.3 m m 2.0 m m m 9.4 2.8 m m 11.8 123.9 m 2.3 4.1 9.9 7.0 m 44.3 20.9	m (0.5) (0.6) (0.7) (0.5) (0.9) m (0.2) m m (0.5) (0.5) (0.7) (0.5) (0.9) m m (0.5) (0.3) (0.4) (0.4) m (0.3) (0.4) (0.4) m (0.8) (0.5)	m 19.4 20.9 10.2 m 16.7 33.5 15.3 37.6 19.5 m m 10.7 m m m 12.6 10.9 m m 19.5 30.0 37.7 m 24.6 37.2 m 24.6 50.8	m (0.5) (0.9) (0.8) (0.8) (0.6) m m (0.6) m m (0.5) (0.5) (0.5) (0.5) m (0.6) m m (0.6) m m (0.6) (0.7) (1.2) m (0.7) (0.7) (0.7)	m 21.6 33.3 22.0 m 8.9 8.9 18.3 30.4 13.2 m m 64.1 m m 20.8 68.0 m m 20.9 33.1 13.0 m 17.2 36.4 36.1 m 12.9 12.6	(0.5) (0.9) (0.8) m (0.7) (0.7) m m (0.7) (0.7) m m (0.7) (0.7) m m (0.6) (0.9) (0.8) (0.8) (0.8) (0.6) (1.1) m (0.6) (0.5)	m 15.4 13.1 40.4 m 4.5 3.4 17.2 11.5 7.8 m m 18.4 m m m 21.9 8.8 4.8 m 33.4 25.2 14.3 13.7 m 3.2 3.4	m (0.5) (0.9) (1.0) m (0.4) (0.3) (0.6) (0.4) (0.4) m m (0.7) m m m (0.8) (0.5) (0.4) (0.2) m (1.0) (0.5) (0.5) m (0.3) (0.2)	m 17.8 3.4 m 1.7 11.3 4.7 5.2 m m 3.4 m m m 10.6 3.3 m m 6.7 3.5 3.3 m 26.9 9.6 6.7 4.4 3.9 m 1.5 1.8	(0.5 (0.6 (0.6 (0.2 (0.2 (0.5 (0.3 (0.2 (0.3 (0.3 (0.3 (0.3 (0.3 (0.3 (0.3 (0.3
Algeria Brazil Br-zil Br-S-J-G (China) Bulgaria CABA (Argentina) Colombia Costa Rica Croatia Cyprus Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	m 15.1 12.3 11.5 m 8.7 16.0 12.6 17.7 6.4 m m 15.9 m m m m m 17.3 21.1 m m 8.3 5.7 18.3 m 12.1 24.5 24.9 6.4 m 6.2 16.2 6.0	m (0.4) (0.5) (0.5) m (0.4) (0.5) (0.5) (0.5) (0.5) (0.5) (0.5) m m (0.6) m m m (0.6) (0.6) m m (0.4) (0.3) (0.4) m (0.7) (0.6) (0.5) (0.5) (0.5) (0.7) (0.6) (0.5) (0.4) m (0.4) (0.4) (0.4) (0.4) (0.4) (0.4)	m 2.9 17.1 6.1 m 3.4 9.2 19.8 1.8 3.8 m m 1.0 m m m m 23.6 0.5 m m 27.2 4.6 14.3 m 14.0 1.1 1.8 0.6 m 8.9 7.4 0.8	m (0.2) (1.3) (0.4) m (0.4) (0.5) (0.9) (0.2) (0.4) m m (0.2) m m m (1.0) (0.1) m m (0.6) (0.4) (0.3) m (1.2) (0.2) (0.2) (0.2) (0.2) (0.1) m (0.7) (0.3) (0.1) m (0.7) (0.3) (0.2)	m 6.7 2.2 2.2 0.5 m 4.8 1.7 0.7 1.2 17.1 m m 0.5 m m m 1.1 0.5 m m 1.1 2.4 3.0 m 0.3 0.5 0.5 1.4 m 4.7 3.1 3.4	m (0.3) (0.2) (0.1) m (0.3) (0.2) (0.1) (0.2) (0.8) m m (0.1) (0.2) (0.1) m m (0.1) (0.2) (0.2) m (0.1) (0.1) (0.1) (0.1) (0.1) (0.2) (0.2) m (0.3) (0.2) (0.2)	m 16.2 10.0 5.4 m 60.1 17.4 12.8 33.3 m m 2.0 m m m m m m m 11.8 17.7 23.9 m 2.3 4.1 9.9 7.0 m 44.3 20.9 11.5	m (0.5) (0.6) m (1.3) (0.8) (0.7) (0.5) (0.9) m m (0.2) m m (0.5) (0.3) m m (0.5) (0.7) (0.4) m (0.3) (0.3) (0.4) m (0.4) m (0.5) (0.5) (0.5)	m 19.4 20.9 10.2 m 16.7 33.5 15.3 37.6 19.5 m m 10.7 m m m 12.6 10.9 m m 19.5 30.0 37.7 m 5.8 23.1 32.6 50.8 40.6	m (0.5) (0.9) (0.8) (0.5) (0.7) (0.8) (0.6) (0.7) (0.8) (0.6) (0.7) (0.8) (0.6) (0.7) (0.8) (0.6) (0.7) (0.8) (0.7) (0.7) (0.8)	m 21.6 33.3 22.0 m 8.9 8.9 18.3 30.4 13.2 m m 64.1 m m m 20.8 68.0 m m 17.2 36.4 33.4 36.1 m 12.9 12.6 24.6	m (0.5) (0.9) (0.8) m (0.7) (0.7) m m (0.6) (0.7) (0.7) m m (0.6) (0.7) (0.7) m m (0.6) (0.9) (0.3) m (0.8) (0.8) (0.6) (0.5) (0.7)	m 15.4 13.1 40.4 m 4.5 3.4 17.2 11.5 7.8 m m 18.4 m m m 21.9 8.8 4.8 m 33.4 25.2 14.3 13.7 m 3.2 3.4 13.0	m (0.5) (0.9) (1.0) m (0.4) (0.3) (0.6) (0.4) (0.4) m m (0.7) m m (0.8) (0.5) m m (0.5) (0.4) (0.2) m (0.5) (0.5) m (0.5) (0.6) (0.5) m (0.6) (0.7) (0.5) m (0.6) (0.7) (0.5) m (0.6) (0.6)	m 17.8 3.4 m 1.7 11.3 4.7 5.2 m m 3.4 m m m m 10.6 3.3 m m 6.7 3.5 3.3 m m 26.9 9.6 7.4 3.9 m 1.5 6.2	r (0.5.2) (0.2.2) (0.2.2) (0.2.2) (0.2.2) (0.2.2) (0.2.2) (0.2.2) (0.2.2) (0.2.2) (0.2.2) (0.2.2) (0.2.2) (0.2.2) (0.2.2) (0.2.2)

^{*} See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink ** Line** http://dx.doi.org/10.1787/888933436513



[Part 1/3]

Table II.6.51 Number of years at pre-primary school, science performance and school characteristics

				N	umber of y	ears atten	ding pre-pi	rimary sch	ool (ISCED	0), in yea	rs¹			
		All stu	udents					By sch	ool socio-e	conomic	orofile ²			
	Ave	rage	Varia	bility	Bottom	quarter	Second	quarter	Third o	quarter	Тор qı	ıarter		ottom irter
	Years	S.E.	S.D.	S.E.	Years	S.E.	Years	S.E.	Years	S.E.	Years	S.E.	Dif.	S.E
Australia Austria	2.1 3.2	(0.0)	1.1 1.0	(0.0)	2.0 3.1	(0.0)	2.1 3.1	(0.0)	2.2 3.2	(0.0)	2.3 3.3	(0.0)	0.3	(0.0
Belgium	3.7	(0.0)	0.9	(0.0)	3.7	(0.0)	3.7	(0.0)	3.7	(0.0)	3.7	(0.0)	-0.1	(0.0
Canada	2.0	(0.0)	1.1	(0.0)	1.9	(0.0)	2.0	(0.0)	2.0	(0.0)	2.3	(0.0)	0.4	(0.1
Chile	2.1	(0.0)	0.9	(0.0)	2.0	(0.0)	2.1	(0.0)	2.2	(0.0)	2.2	(0.0)	0.2	(0.1
Czech Republic	3.4	(0.0)	1.0	(0.0)	3.4	(0.1)	3.5	(0.1)	3.5	(0.0)	3.4	(0.0)	0.1	(0.1
Denmark	3.7	(0.0)	1.0	(0.0)	3.7	(0.0)	3.7	(0.0)	3.8	(0.0)	3.8	(0.0)	0.1	(0.0
Estonia	4.2	(0.0)	1.5	(0.0)	3.8	(0.1)	4.3	(0.1)	4.4	(0.1)	4.4	(0.0)	0.6	(0.1
Finland	3.2	(0.0)	1.5	(0.0)	2.8	(0.1)	3.0	(0.1)	3.3	(0.1)	3.7	(0.1)	0.9	(0.1
France	3.4	(0.0)	1.0	(0.0)	3.4	(0.0)	3.4	(0.0)	3.5	(0.0)	3.5	(0.0)	0.1	(0.0
Germany Greece	3.4 2.8	(0.0)	1.1 1.1	(0.0)	3.3 2.6	(0.1)	3.3 2.8	(0.1)	3.5 2.8	(0.1)	3.4 2.9	(0.0)	0.1 0.3	(0.1
Hungary	3.8	(0.0)	0.9	(0.0)	3.7	(0.0)	3.8	(0.0)	3.8	(0.0)	3.9	(0.0)	0.1	(0.0
Iceland	4.0	(0.0)	1.1	(0.0)	4.0	(0.0)	3.9	(0.0)	3.9	(0.0)	3.9	(0.0)	-0.1	(0.1
Ireland	2.0	(0.0)	1.0	(0.0)	2.1	(0.1)	2.0	(0.1)	2.0	(0.0)	2.2	(0.0)	0.1	(0.1
Israel	3.6	(0.0)	1.2	(0.0)	3.3	(0.1)	3.5	(0.1)	3.7	(0.1)	3.7	(0.0)	0.4	(0.1
Italy	3.2	(0.0)	0.9	(0.0)	3.2	(0.0)	3.2	(0.0)	3.2	(0.0)	3.3	(0.0)	0.1	(0.1
Japan	3.5	(0.0)	1.1	(0.0)	3.5	(0.0)	3.5	(0.1)	3.5	(0.1)	3.5	(0.0)	0.0	(0.1
Korea	3.0	(0.0)	1.2	(0.0)	3.0	(0.1)	3.0	(0.1)	3.0	(0.1)	3.0	(0.0)	0.0	(0.
Latvia	3.9	(0.0)	1.5	(0.0)	3.5	(0.1)	4.0	(0.1)	4.0	(0.1)	4.0	(0.1)	0.4	(0.
Luxembourg	2.9	(0.0)	1.1	(0.0)	2.8	(0.0)	2.8	(0.0)	2.9	(0.0)	3.0	(0.0)	0.1	(0.0
Mexico	2.8	(0.0)	1.0	(0.0)	2.8	(0.1)	2.7	(0.1)	2.7	(0.0)	3.0	(0.1)	0.2	(0.
Netherlands New Zealand	m	(O, O)	m	(O, O)	m	m (0,0)	m	(O, O)	m 2.7	m (0.1)	m 2.8	(O, O)	m O 1	(0.
New Zealand Norway	2.7 3.7	(0.0)	1.1 1.4	(0.0)	2.7 3.5	(0.0)	2.7 3.6	(0.0)	3.8	(0.1)	3.9	(0.0)	0.1 0.4	(0.
Poland	2.5	(0.0)	1.4	(0.0)	1.8	(0.1)	2.3	(0.1)	2.7	(0.1)	3.1	(0.0)	1.4	(0.
Portugal	1.5	(0.0)	1.1	(0.0)	1.3	(0.0)	1.5	(0.2)	1.6	(0.0)	1.7	(0.1)	0.4	(0.
Slovak Republic	3.3	(0.0)	1.2	(0.0)	2.8	(0.1)	3.3	(0.1)	3.4	(0.1)	3.5	(0.0)	0.7	(0.
Slovenia	3.2	(0.0)	1.7	(0.0)	3.0	(0.1)	3.1	(0.1)	3.2	(0.0)	3.4	(0.0)	0.3	(0.
Spain	3.4	(0.0)	1.0	(0.0)	3.2	(0.0)	3.3	(0.0)	3.3	(0.1)	3.6	(0.0)	0.4	(0.
Sweden	4.4	(0.0)	1.6	(0.0)	4.1	(0.1)	4.4	(0.1)	4.5	(0.1)	4.6	(0.1)	0.5	(0.
Switzerland	2.5	(0.0)	0.8	(0.0)	2.5	(0.0)	2.5	(0.0)	2.5	(0.0)	2.5	(0.0)	0.1	(0.
Turkey	1.0	(0.0)	1.2	(0.0)	0.9	(0.0)	0.9	(0.0)	0.9	(0.0)	1.4	(0.1)	0.5	(0.
United Kingdom	2.5	(0.0)	1.1	(0.0)	2.3	(0.0)	2.5	(0.0)	2.5	(0.0)	2.6	(0.0)	0.3	(0.
United States	2.2	(0.0)	1.4	(0.0)	1.9	(0.1)	2.2	(0.1)	2.3	(0.1)	2.6	(0.1)	0.7	(0.1
OECD average	3.0	(0.0)	1.2	(0.0)	2.9	(0.0)	3.0	(0.0)	3.1	(0.0)	3.2	(0.0)	0.3	(0.0
Albania	m	m	m	m	m	m	m	m	m	m	m	m	m	r
Algeria	m	m	m	m	m	m	m	m	m	m	m	m	m	- 1
Brazil	3.3	(0.0)	1.8	(0.0)	3.2	(0.1)	3.2	(0.1)	3.3	(0.1)	3.5	(0.1)	0.2	(0.
B-S-J-G (China)	2.6	(0.1)	1.6	(0.0)	1.7	(0.1)	2.3	(0.2)	3.0	(0.1)	3.5	(0.1)	1.7	(0.2
Bulgaria	3.8	(0.0)	1.5	(0.0)	3.6	(0.1)	3.8	(0.1)	3.9	(0.1)	3.9	(0.1)	0.4	(0.
CABA (Argentina)	m	m	m	m	m	m	m	m	m	m	m	m		
Colombia				(0.0)						(0.4)			m	
Costa Rica	2.0	(0.0)	1.1	(0.0)	1.7	(0.1)	1.8	(0.0)	1.9	(0.1)	2.4	(0.1)	0.7	(0.
	2.0	(0.0) (0.0)	1.1 1.1	(0.0)	1.8	(0.0)	1.8 1.9	(0.0) (0.0)	1.9 1.9	(0.0)	2.4 2.5	(0.1) (0.0)	0.7 0.8	(0. (0.
Croatia	2.0 2.7	(0.0) (0.0) (0.0)	1.1 1.1 1.9	(0.0)	1.8 2.1	(0.0) (0.1)	1.8 1.9 2.6	(0.0) (0.0) (0.1)	1.9 1.9 2.8	(0.0) (0.1)	2.4 2.5 3.3	(0.1) (0.0) (0.1)	0.7 0.8 1.2	(0. (0. (0.
Croatia Cyprus*	2.0 2.7 3.0	(0.0) (0.0) (0.0) (0.0)	1.1 1.1 1.9 1.1	(0.0) (0.0) (0.0)	1.8 2.1 2.8	(0.0) (0.1) (0.0)	1.8 1.9 2.6 3.0	(0.0) (0.0) (0.1) (0.0)	1.9 1.9 2.8 3.1	(0.0) (0.1) (0.0)	2.4 2.5 3.3 3.0	(0.1) (0.0) (0.1) (0.0)	0.7 0.8 1.2 0.2	(0. (0. (0.
Croatia Cyprus* Dominican Republic	2.0 2.7 3.0 2.2	(0.0) (0.0) (0.0) (0.0) (0.0)	1.1 1.1 1.9 1.1 1.5	(0.0) (0.0) (0.0) (0.0)	1.8 2.1 2.8 1.8	(0.0) (0.1) (0.0) (0.1)	1.8 1.9 2.6 3.0 2.0	(0.0) (0.0) (0.1) (0.0) (0.1)	1.9 1.9 2.8 3.1 2.2	(0.0) (0.1) (0.0) (0.1)	2.4 2.5 3.3 3.0 2.8	(0.1) (0.0) (0.1) (0.0) (0.1)	0.7 0.8 1.2 0.2 1.0	(0. (0. (0. (0.
Croatia Cyprus*	2.0 2.7 3.0	(0.0) (0.0) (0.0) (0.0)	1.1 1.1 1.9 1.1	(0.0) (0.0) (0.0)	1.8 2.1 2.8	(0.0) (0.1) (0.0)	1.8 1.9 2.6 3.0	(0.0) (0.0) (0.1) (0.0)	1.9 1.9 2.8 3.1	(0.0) (0.1) (0.0)	2.4 2.5 3.3 3.0	(0.1) (0.0) (0.1) (0.0)	0.7 0.8 1.2 0.2	(0. (0. (0. (0.
Croatia Cyprus* Dominican Republic FYROM	2.0 2.7 3.0 2.2 m	(0.0) (0.0) (0.0) (0.0) (0.0) m	1.1 1.1 1.9 1.1 1.5 m	(0.0) (0.0) (0.0) (0.0) m	1.8 2.1 2.8 1.8 m	(0.0) (0.1) (0.0) (0.1) m	1.8 1.9 2.6 3.0 2.0 m	(0.0) (0.0) (0.1) (0.0) (0.1) m	1.9 1.9 2.8 3.1 2.2 m	(0.0) (0.1) (0.0) (0.1) m	2.4 2.5 3.3 3.0 2.8 m	(0.1) (0.0) (0.1) (0.0) (0.1) m	0.7 0.8 1.2 0.2 1.0	(0. (0. (0. (0.
Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia	2.0 2.7 3.0 2.2 m	(0.0) (0.0) (0.0) (0.0) (0.0) m m	1.1 1.1 1.9 1.1 1.5 m	(0.0) (0.0) (0.0) (0.0) (0.0) m	1.8 2.1 2.8 1.8 m	(0.0) (0.1) (0.0) (0.1) m m	1.8 1.9 2.6 3.0 2.0 m	(0.0) (0.0) (0.1) (0.0) (0.1) m m	1.9 1.9 2.8 3.1 2.2 m	(0.0) (0.1) (0.0) (0.1) m m	2.4 2.5 3.3 3.0 2.8 m	(0.1) (0.0) (0.1) (0.0) (0.1) m m	0.7 0.8 1.2 0.2 1.0 m	(0. (0. (0. (0.
Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan	2.0 2.7 3.0 2.2 m m 3.6 m	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) m	1.1 1.9 1.1 1.5 m m 0.8 m	(0.0) (0.0) (0.0) (0.0) m m (0.0) m	1.8 2.1 2.8 1.8 m m 3.6 m	(0.0) (0.1) (0.0) (0.1) m m (0.0) m	1.8 1.9 2.6 3.0 2.0 m m 3.5 m	(0.0) (0.0) (0.1) (0.0) (0.1) m m (0.0) m	1.9 1.9 2.8 3.1 2.2 m m 3.5 m	(0.0) (0.1) (0.0) (0.1) m m (0.0) m	2.4 2.5 3.3 3.0 2.8 m m 3.6 m	(0.1) (0.0) (0.1) (0.0) (0.1) m m (0.0) m	0.7 0.8 1.2 0.2 1.0 m m 0.1	(0. (0. (0. (0.
Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo	2.0 2.7 3.0 2.2 m m 3.6 m m	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) m	1.1 1.9 1.1 1.5 m m 0.8 m	(0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) m	1.8 2.1 2.8 1.8 m m 3.6 m	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m	1.8 1.9 2.6 3.0 2.0 m m 3.5 m	(0.0) (0.0) (0.1) (0.0) (0.1) m m (0.0) m m	1.9 1.9 2.8 3.1 2.2 m m 3.5 m	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m	2.4 2.5 3.3 3.0 2.8 m m 3.6 m	(0.1) (0.0) (0.1) (0.0) (0.1) m m (0.0) m m	0.7 0.8 1.2 0.2 1.0 m m 0.1 m	(0. (0. (0. (0.
Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon	2.0 2.7 3.0 2.2 m m 3.6 m m	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) m m	1.1 1.1 1.9 1.1 1.5 m m 0.8 m m	(0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) m m	1.8 2.1 2.8 1.8 m m 3.6 m m	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m m	1.8 1.9 2.6 3.0 2.0 m m 3.5 m m	(0.0) (0.0) (0.1) (0.0) (0.1) m m (0.0) m m m	1.9 1.9 2.8 3.1 2.2 m m 3.5 m m	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m m	2.4 2.5 3.3 3.0 2.8 m m 3.6 m m	(0.1) (0.0) (0.1) (0.0) (0.1) m m (0.0) m m m	0.7 0.8 1.2 0.2 1.0 m m 0.1 m	(0. (0. (0. (0.
Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania	2.0 2.7 3.0 2.2 m m 3.6 m m m	(0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) m m m (0.0)	1.1 1.1 1.9 1.1 1.5 m m 0.8 m m m	(0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) m m m (0.0)	1.8 2.1 2.8 1.8 m m 3.6 m m	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m m m (0.1)	1.8 1.9 2.6 3.0 2.0 m m 3.5 m m	(0.0) (0.0) (0.1) (0.0) (0.1) m m (0.0) m m m (0.1)	1.9 1.9 2.8 3.1 2.2 m m 3.5 m m m 3.5	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m m (0.1)	2.4 2.5 3.3 3.0 2.8 m m 3.6 m m	(0.1) (0.0) (0.1) (0.0) (0.1) m m (0.0) m m m m (0.1)	0.7 0.8 1.2 0.2 1.0 m m 0.1 m m 1.5	(0. (0. (0. (0. (0.
Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China)	2.0 2.7 3.0 2.2 m m 3.6 m m m 2.8 3.5	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0) m (0.0) m m m (0.0) (0.0)	1.1 1.1 1.9 1.1 1.5 m m 0.8 m m m m	(0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) m m m (0.0) (0.0)	1.8 2.1 2.8 1.8 m m 3.6 m m m	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m m (0.1) (0.0)	1.8 1.9 2.6 3.0 2.0 m m 3.5 m m m 2.7	(0.0) (0.0) (0.1) (0.0) (0.1) m (0.0) m m m m (0.1) (0.0)	1.9 1.9 2.8 3.1 2.2 m m 3.5 m m m 3.2 3.6	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m m (0.1) (0.0)	2.4 2.5 3.3 3.0 2.8 m m 3.6 m m m 3.6 m	(0.1) (0.0) (0.1) (0.0) (0.1) m m (0.0) m m m (0.1) (0.1)	0.7 0.8 1.2 0.2 1.0 m m 0.1 m m m 1.5	(0. (0. (0. (0. (0.
Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta	2.0 2.7 3.0 2.2 m m 3.6 m m m 2.8 3.5 m	(0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) m m m (0.0) (0.0)	1.1 1.1 1.9 1.1 1.5 m m 0.8 m m m m 1.9 0.8	(0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) m m (0.0) (0.0)	1.8 2.1 2.8 1.8 m m 3.6 m m m 1.9	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m (0.0) m m (0.1) (0.1) m	1.8 1.9 2.6 3.0 2.0 m m 3.5 m m m 2.7 3.5 m	(0.0) (0.0) (0.1) (0.0) (0.1) m m (0.0) m m m (0.1) (0.0)	1.9 1.9 2.8 3.1 2.2 m m 3.5 m m m 3.5 m	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m m (0.1) (0.0)	2.4 2.5 3.3 3.0 2.8 m m 3.6 m m m 3.4 3.5 m	(0.1) (0.0) (0.1) (0.0) (0.1) m m (0.0) m m m (0.1) (0.1) (0.0)	0.7 0.8 1.2 0.2 1.0 m m 0.1 m m m 1.5 0.0	(0. (0. (0. (0. (0.
Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova	2.0 2.7 3.0 2.2 m m 3.6 m m m 2.8 3.5 m	(0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) m m m (0.0) (0.0) m	1.1 1.1 1.9 1.1 1.5 m m 0.8 m m m 1.9 0.8	(0.0) (0.0) (0.0) (0.0) m m (0.0) m m m (0.0) (0.0) (0.0)	1.8 2.1 2.8 1.8 m m 3.6 m m m m 1.9 3.5 m	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m m (0.1) (0.0) m m	1.8 1.9 2.6 3.0 2.0 m m 3.5 m m m 2.7 3.5 m	(0.0) (0.0) (0.1) (0.0) (0.1) m m (0.0) m m m (0.1) (0.0) m	1.9 1.9 2.8 3.1 2.2 m m 3.5 m m m 3.6 m m m 3.6 m m m m 3.7 3.6 m m m	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m (0.0) m m m m (0.1) (0.0)	2.4 2.5 3.3 3.0 2.8 m m 3.6 m m m 3.4 3.5 m	(0.1) (0.0) (0.1) (0.0) (0.1) (0.1) m m (0.0) m m m (0.1) (0.0) m	0.7 0.8 1.2 0.2 1.0 m m 0.1 m m m 1.5 0.0 m m	(0. (0. (0. (0. (0. (0.
Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro	2.0 2.7 3.0 2.2 m m 3.6 m m m 2.8 3.5 m	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) (0.0) (0.0) m m m (0.0) (0.0)	1.1 1.1 1.9 1.1 1.5 m m 0.8 m m m m m m m m m m m m m m m m m m m	(0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) m m m (0.0) (0.0)	1.8 2.1 2.8 1.8 m m 3.6 m m m 1.9 3.5 m	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m (0.0) m m m (0.1) (0.0) m (0.1)	1.8 1.9 2.6 3.0 2.0 m m 3.5 m m m m 2.7 3.5 m	(0.0) (0.0) (0.1) (0.0) (0.1) m m (0.0) m m (0.1) (0.0) m m (0.1)	1.9 1.9 2.8 3.1 2.2 m m 3.5 m m m m 3.2 3.6 m	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m (0.0) m m m (0.1) (0.0) m (0.0)	2.4 2.5 3.3 3.0 2.8 m m 3.6 m m m 3.4 3.5 m	(0.1) (0.0) (0.1) (0.0) (0.1) m m (0.0) m m m (0.1) (0.0) m m (0.1) (0.0)	0.7 0.8 1.2 0.2 1.0 m m 0.1 m m m 1.5 0.0 m	(0. (0. (0. (0. (0. (0.
Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru	2.0 2.7 3.0 2.2 m m 3.6 m m m 2.8 3.5 m	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) m m m (0.0) m m m (0.0) m m m (0.0)	1.1 1.1 1.9 1.1 1.5 m 0.8 m m m m 1.9 0.8 m m m 1.9 0.8	(0.0) (0.0) (0.0) (0.0) m m (0.0) m m m (0.0) (0.0) (0.0)	1.8 2.1 2.8 1.8 m m 3.6 m m m m 1.9 3.5 m m	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m m (0.1) (0.0) m m (0.1) (0.0)	1.8 1.9 2.6 3.0 2.0 m m 3.5 m m m m 2.7 3.5 m m 2.3 2.6	(0.0) (0.0) (0.1) (0.0) (0.1) m (0.0) m m (0.1) m m (0.1) (0.0) m m (0.1) (0.0)	1.9 1.9 2.8 3.1 2.2 m m 3.5 m m m 3.6 m m m 3.6 m m m m 3.7 3.6 m m m	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m m (0.1) (0.0) m m (0.1) (0.0) (0.0) (0.1)	2.4 2.5 3.3 3.0 2.8 m m 3.6 m m m 3.4 3.5 m	(0.1) (0.0) (0.1) (0.1) (0.1) (0.1) (0.1) (0.0) (0.1) (0.1) (0.0) (0.1) (0.0)	0.7 0.8 1.2 0.2 1.0 m m 0.1 m m m 1.5 0.0 m	(0. (0. (0. (0. (0. (0. (0.
Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro	2.0 2.7 3.0 2.2 m m 3.6 m m m 2.8 3.5 m	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) (0.0) (0.0) m m m (0.0) (0.0)	1.1 1.1 1.9 1.1 1.5 m m 0.8 m m m m m m m m m m m m m m m m m m m	(0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) m m m (0.0) (0.0)	1.8 2.1 2.8 1.8 m m 3.6 m m m 1.9 3.5 m	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m (0.0) m m m (0.1) (0.0) m (0.1)	1.8 1.9 2.6 3.0 2.0 m m 3.5 m m m m 2.7 3.5 m	(0.0) (0.0) (0.1) (0.0) (0.1) m m (0.0) m m (0.1) (0.0) m m (0.1)	1.9 1.9 2.8 3.1 2.2 m m 3.5 m m 3.2 3.6 m 2.3 2.9	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m (0.0) m m m (0.1) (0.0) m (0.0)	2.4 2.5 3.3 3.0 2.8 m m 3.6 m m m 3.4 3.5 m	(0.1) (0.0) (0.1) (0.0) (0.1) m m (0.0) m m m (0.1) (0.0) m m (0.1) (0.0)	0.7 0.8 1.2 0.2 1.0 m m 0.1 m m m 1.5 0.0 m	(0. (0. (0. (0. (0. (0. (0. (0. (0.
Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar	2.0 2.7 3.0 2.2 m m 3.6 m m m 2.8 3.5, m m 2.8 2.2, 2, 2	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) m m m (0.0) (0.0) m m (0.0) (0.0) (0.0) (0.0)	1.1 1.1 1.9 1.1 1.5 m 0.8 m m m 1.9 0.8 m m m 1.1 1.1 1.5 m m m m m 1.1 1.1 1.1 1.5 m m m m m m m m m m m m m m m m m m m	(0.0) (0.0) (0.0) (0.0) m m (0.0) m m m (0.0) m m m (0.0) (0.0) m (0.0) (0.0) (0.0) (0.0)	1.8 2.1 2.8 1.8 m m 3.6 m m m m 1.9 3.5 m m m m 2.5 1.9	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m m (0.1) (0.0) m m (0.1) (0.0) m (0.1) (0.0)	1.8 1.9 2.6 3.0 2.0 m m 3.5 m m m 2.7 3.5 m m 2.7 3.5 c	(0.0) (0.0) (0.0) (0.1) (0.0) (0.1) m (0.0) m (0.0) m (0.1) (0.0) m (0.1) (0.0)	1.9 1.9 2.8 3.1 2.2 m m 3.5 m m m 3.2 3.6 m 2.3 2.9 2.2	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m m (0.0) m m (0.1) m (0.0) m (0.1) (0.0) m (0.0) m (0.0)	2.4 2.5 3.3 3.0 2.8 m m 3.6 m m m 3.4 3.5 m m 2.9 3.1 2.5	(0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) m (0.0) m (0.0) m m (0.1) (0.0) m (0.0) (0.1) (0.0)	0.7 0.8 1.2 0.2 1.0 m m 0.1 m m m 1.5 0.0 m m	(0. (0. (0. (0. (0. (0. (0. (0.
Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore	2.0 2.7 3.0 2.2 m 3.6 m m 2.8 3.5 m m 2.8 2.2 m 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) m m m (0.0) (0.0) (0.0) m m m m m m m m m m m m m m m m m m m	1.1 1.1 1.9 1.1 1.5 m m 0.8 m m m 1.9 0.8 m m 1.8 1.3 1.4 m	(0.0) (0.0) (0.0) (0.0) m m (0.0) m m (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	1.8 2.1 2.8 1.8 m m 3.6 m m m 1.9 3.5 m m 3.0 3.5 1.9 m 3.0 3.5	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m m (0.1) (0.0) m m (0.1) (0.0) m m (0.1) (0.0) (0.1) (0.0)	1.8 1.9 2.6 3.0 2.0 m m 3.5 m m m 2.7 3.5 m m 2.3 2.6 2.2 m 4.1 3.6	(0.0) (0.0) (0.0) (0.1) (0.0) (0.1) m (0.0) m (0.0) m m (0.1) (0.0) m m (0.1) (0.0) m m m m m m m m m m m m m m m m m m m	1.9 1.9 2.8 3.1 2.2 m m 3.5 m m m 3.2 3.6 m 2.3 2.9 2.2 m 4.2 3.6	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m m (0.1) (0.0) m (0.0) (0.1) (0.0) m (0.0) (0.1)	2.4 2.5 3.3 3.0 2.8 m m 3.6 m m m 3.4 3.5 m m 2.9 3.1 2.9	(0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) m (0.0) m m (0.1) (0.0) m (0.0) (0.1) (0.0)	0.7 0.8 1.2 0.2 1.0 m m m m m m 1.5 0.0 m m m m m 1.5 0.0 m m m m m m m m m m m m m	(0. (0. (0. (0. (0. (0. (0. (0. (0.
Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei	2.0 2.7 3.0 2.2 m 3.6 m m m 2.8 3.5 m m 2.4 2.8 2.2 m 3.6 3.5	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) m (0.0) m (0.0) (0.0) m (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	1.1 1.1 1.9 1.1 1.5 m 0.8 m m m m 1.9 0.8 m m m 1.9 1.8 1.3 1.4 m 1.9	(0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) m m (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	1.8 2.1 2.8 1.8 m m 3.6 m m m 1.9 3.5 m m 3.0 2.0 2.5 1.9 m 3.0 3.5 3.2	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m m (0.1) (0.0) m m (0.1) (0.0) m (0.1) (0.0) m (0.2) (0.0)	1.8 1.9 2.6 3.0 2.0 m 3.5 m m 2.7 3.5 m m 2.7 3.5 m 4.1 3.6 3.2	(0.0) (0.0) (0.0) (0.1) (0.0) (0.1) m (0.0) m (0.0) m (0.1) (0.0) m (0.1) (0.1) (0.0) m (0.1) (0.0)	1.9 1.9 2.8 3.1 2.2 m m 3.5 m m 3.6 m m 2.3 2.9 m 4.2 3.6 3.2	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m m (0.1) (0.0) m m (0.1) (0.0) m (0.1) (0.0) (0.1) (0.0) (0.1) (0.0)	2.4 2.5 3.3 3.0 2.8 m m 3.6 m m m 3.4 3.5 m m 4.0 3.7 3.3	(0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0)	0.7 0.8 1.2 0.2 1.0 m 0.1 m m 1.5 0.0 m 0.8 0.6 0.6 0.0 0.1	(0. (0. (0. (0. (0. (0. (0. (0. (0. (0.
Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand	2.0 2.7 3.0 2.2 m m 3.6 m m m 2.8 3.5 m m 2.4 2.8 2.2 m 3.8 3.6 3.2	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) m m (0.0) (0.0) m m (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	1.1 1.1 1.9 1.1 1.5 m 0.8 m m m m 1.9 0.8 m m m 1.9 1.9 1.1 1.1 1.5 m m m m m m m m m m m m m m m m m m m	(0.0) (0.0) (0.0) (0.0) m m (0.0) m m (0.0) m m (0.0) m m (0.0) (0.0) m m (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	1.8 2.1 2.8 1.8 m m 3.6 m m m 1.9 3.5 m m 3.0 3.5 m m 3.0 3.5 3.2 2.9	(0.0) (0.1) (0.0) (0.1) m (0.0) m (0.0) m (0.1) (0.0) m (0.1) (0.1) (0.1) (0.0) m (0.2) (0.0) (0.0)	1.8 1.9 2.6 3.0 2.0 m m 3.5 m m m 2.7 3.5 m m 2.3 2.6 2.2 m 4.1 3.6 3.2 3.1	(0.0) (0.0) (0.1) (0.0) (0.1) m (0.0) m m (0.0) m m (0.1) (0.0) m m (0.1) (0.1) (0.0) m (0.1) (0.0) (0.0)	1.9 1.9 2.8 3.1 2.2 m m 3.5 m m 3.5 m m 3.2 3.6 m 4.2 3.6 3.2 3.3	(0.0) (0.1) (0.1) m m (0.0) m m m (0.0) m m (0.1) (0.0) m m (0.1) (0.0) m m (0.1) (0.0) (0.1) (0.0) (0.1)	2.4 2.5 3.3 3.0 2.8 m m 3.6 m m m 3.4 3.5 m m 4.0 3.7 2.9 3.1 2.9 3.1 2.9 3.1 3.3 3.3 3.4 3.5 3.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	(0.1) (0.0) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.0) (0.1) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.0) (0.1)	0.7 0.8 1.2 0.2 1.0 m 0.1 m m m 1.5 0.0 m m 0.6 0.6 0.6 0.1 0.1	(0. (0. (0. (0. (0. (0. (0. (0. (0. (0.
Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago	2.0 2.7 3.0 2.2 m m 3.6 m m m 2.8 3.5 m m 2.8 2.2 m 3.6 3.6 3.6 3.7 3.7 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) m m m (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) m (0.1) (0.0) (0.0) (0.0) (0.0) m m	1.1 1.1 1.9 1.1 1.5 m m 0.8 m m m 1.9 0.8 m m 1.9 1.4 m 1.2 1.2	(0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) m m (0.0) m m (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	1.8 2.1 2.8 1.8 m m 3.6 m m m 1.9 3.5 m m 2.0 2.5 1.9 m 3.0 3.5 3.2 2.9 m	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m (0.1) (0.0) m m (0.1) (0.0) m (0.1) (0.0) m m m (0.1) (0.0) m m m (0.1) (0.0) m m m m (0.1) (0.0) m m m m m m (0.1) (0.0) m m m m m m m m m m m m m m m m m m m	1.8 1.9 2.6 3.0 2.0 m m 3.5 m m m 2.7 3.5 m m 2.3 2.6 2.2 m m 4.1 3.6 3.2 3.1 m	(0.0) (0.0) (0.0) (0.1) (0.1) m m m (0.0) m m m (0.1) (0.0) m (0.1)	1.9 1.9 2.8 3.1 2.2 m m 3.5 m m m 3.2 3.6 m 4.2 3.6 3.2 3.6 3.2 3.6 3.2 3.3 m	(0.0) (0.1) (0.0) (0.1) m (0.0) m m (0.0) m m (0.1) (0.0) m m (0.1) (0.0) m (0.1) (0.0) m (0.1) (0.0) m m m m (0.0) m m m m m (0.0) m m m m m (0.0) m m m m (0.0) m m m m m m m m (0.0) m m m m m m m m m (0.0) m m m m m m m m m m m m m m m m m m m	2.4 2.5 3.3 3.0 2.8 m m m 3.6 m m m 3.4 3.5 m m 2.9 3.1 2.5 m 4.0 3.7 3.3	(0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) m m (0.0) m m (0.0) m (0.0) (0.1) (0.0) m (0.0) (0.1) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	0.7 0.8 1.2 0.2 1.0 m m m m m 1.5 0.0 m m m m 1.5 0.0 0.1 1.0 m m m m m m m m m m m m m	(0. (0. (0. (0. (0. (0. (0. (0. (0. (0.
Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia	2.0 2.7 3.0 2.2 m 3.6 m m m 2.8 3.5 m m 2.4 2.8 2.2 m 3.6 3.5 m m 2.8 3.5 m 2.4 2.8 2.2	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) m (0.0) m m (0.0) (0.0) m (0.0) (0.0) m (0.1) (0.0) (0.0) (0.0) m (0.1) (0.0) (0.0) (0.0) m (0.1)	1.1 1.1 1.9 1.1 1.5 m 0.8 m m m 1.9 0.8 m m 1.9 0.8 m 1.8 1.3 1.4 m 1.9 1.2 1.1 1.1	(0.0) (0.0) (0.0) (0.0) m m (0.0) m m m (0.0) m m (0.0) (0.0) m (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	1.8 2.1 2.8 1.8 m m 3.6 m m m 1.9 3.5 m m 2.0 2.5 1.9 m 3.0 3.5 1.7	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m m (0.1) (0.0) m m (0.1) (0.0) m (0.1) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	1.8 1.9 2.6 3.0 2.0 m m 3.5 m m m 2.7 3.5 m m 2.3 2.6 6 2.2 m 4.1 3.6 3.2 3.1 m 2.0	(0.0) (0.0) (0.0) (0.1) (0.0) (0.1) m (0.0) m m (0.1) (0.0) m (0.1)	1.9 1.9 2.8 3.1 2.2 m m 3.5 m m m 3.2 3.6 m 4.2 2.3 3.3 3.6 3.2 3.3 3.6 m 4.2 2.1	(0.0) (0.1) m m (0.0) m m m (0.0) m m m (0.1) (0.0) m m (0.1) (0.0) m (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0)	2.4 2.5 3.3 3.0 2.8 m m 3.6 m m m 3.4 3.5 m m 4.0 2.9 3.1 2.9 3.1 2.9 3.7 3.3 3.4 4.0 2.1	(0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.0) (0.1) (0.0) (0.0) (0.0) (0.0) (0.0)	0.7 0.8 1.2 0.2 1.0 m 0.1 m m m 1.5 0.0 m 0.8 0.6 m 1.0 0.0 m 0.1 m 0.1 m 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(0. (0. (0. (0. (0. (0. (0. (0. (0. (0.
Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates	2.0 2.7 3.0 2.2 m m 3.6 m m m m 2.8 2.2 m 3.8 3.5 m 2.4 2.8 2.2 m 3.8 3.2 3.2 m 2.2	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) m m m m m m m (0.0) (0.0) m (0.0) (0.0) m (0.0) (0.0) m (0.1) (0.0) (0.0) m (0.0) (0.0) (0.0) (0.0) (0.0)	1.1 1.1 1.9 1.1 1.5 m 0.8 m m m 1.9 0.8 m m 1.9 0.8 m 1.8 1.3 1.4 m 1.9 1.2 1.1	(0.0) (0.0) (0.0) (0.0) m m (0.0) m m (0.0) m m (0.0) (0.0) m m (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	1.8 2.1 2.8 1.8 m m 3.6 m m m 1.9 3.5 m m 2.0 2.5 1.9 m 3.0 3.5 2.9 m 1.7 2.2	(0.0) (0.1) (0.0) (0.1) m (0.0) m (0.0) m (0.1) (0.0) m (0.1) (0.1) (0.0) m (0.1) (0.0) m (0.2) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	1.8 1.9 2.6 3.0 2.0 m m 3.5 m m m 2.7 3.5 m m 2.3 2.6 2.2 m 4.1 3.6 3.2 3.1 m 2.0 2.3	(0.0) (0.0) (0.0) (0.1) (0.0) (0.1) m (0.0) m (0.0) m (0.1) (0.0)	1.9 1.9 1.9 2.8 3.1 2.2 m m 3.5 m m m 3.2 3.6 m m 4.2 3.6 3.2 3.3 m 4.2 3.3 m 2.1 2.3	(0.0) (0.1) m m (0.0) m m m (0.0) m m m (0.1) (0.0) m m m (0.1) (0.0) m m (0.0) (0.1) (0.0) m (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.0) (0.1)	2.4 2.5 3.3 3.0 2.8 m m 3.6 m m m 3.4 3.5 m m 4.0 3.7 m 4.0 3.3 3.3 3.4 3.5 m m 2.9 3.1 2.9 3.1 2.9 3.1 2.9 3.1 4.0 3.1 4.0 3.1 4.0 3.1 4.0 4.0 3.1 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	(0.1) (0.0) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	0.7 0.8 1.2 0.2 1.0 m 0.1 m m m 1.5 0.0 m 0.8 0.6 0.6 0.1 0.1 0.1 0.1 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	(0. (0. (0. (0. (0. (0. (0. (0. (0. (0.
Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	2.0 2.7 3.0 2.2 m m 3.6 m m m 2.8 3.5 m m 2.4 2.8 2.2 m a 3.6 3.6 3.3 3.6 3.6 3.3 3.6 3.6 3.6 3.6	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) m m m (0.0) (0.0) (0.0) (0.0) (0.0) m (0.0)	1.1 1.1 1.9 1.1 1.5 m m 0.8 m m m 1.9 0.8 m m 1.9 0.8 m 1.3 1.4 m 1.2 1.2 1.1 1.1	(0.0) (0.0) (0.0) (0.0) m m (0.0) m m (0.0) m m (0.0) m m (0.0) (0.0) m (0.0) (0.0) (0.0) (0.0) m (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	1.8 2.1 2.8 1.8 m m 3.6 m m m 3.6 m m 2.0 2.5 1.9 m 3.0 3.5 2.0 2.5 1.9 m 3.0 3.5 2.0 2.5 2.9 m 1.7 2.2 2.6	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m m (0.1) (0.0) m m (0.1) (0.0) m (0.1) (0.0) m (0.2) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	1.8 1.9 2.6 3.0 2.0 m m 3.5 m m m 2.7 3.5 m m 2.3 2.6 2.2 m 4.1 3.6 3.2 3.1 m 2.0 2.3 2.8	(0.0) (0.0) (0.0) (0.1) (0.1) m m m (0.0) m m m (0.1) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	1.9 1.9 2.8 3.1 2.2 m m 3.5 m m m 3.2 3.6 6 m 4.2 3.6 3.2 3.6 3.2 3.3 3.0	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m m (0.1) (0.0) m m (0.1) (0.0) m (0.1) (0.0) (0.1) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	2.4 2.5 3.3 3.0 2.8 m m m 3.6 m m m 3.4 3.5 m m m 3.4 3.5	(0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) m m (0.0) m m (0.1) (0.0) m (0.0) (0.1) (0.0) m (0.1) (0.0) m (0.0)	0.7 0.8 1.2 0.2 1.0 m m m m m 1.5 0.0 m m m m 1.5 0.0.0 m m m m m m m m m m m m m	(0. (0. (0. (0. (0. (0. (0. (0. (0. (0.
Croatia Cyprus* Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay Viet Nam	2.0 2.7 3.0 2.2 m m 3.6 m m m m 2.8 2.2 m 3.8 3.5 m 2.4 2.8 2.2 m 3.8 3.2 3.2 m 2.2	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) m m m m m m m (0.0) (0.0) m (0.0) (0.0) m (0.0) (0.0) m (0.1) (0.0) (0.0) m (0.0) (0.0) (0.0) (0.0) (0.0)	1.1 1.1 1.9 1.1 1.5 m 0.8 m m m 1.9 0.8 m m 1.9 0.8 m 1.8 1.3 1.4 m 1.9 1.2 1.1	(0.0) (0.0) (0.0) (0.0) m m (0.0) m m (0.0) m m (0.0) (0.0) m m (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	1.8 2.1 2.8 1.8 m m 3.6 m m m 1.9 3.5 m m 2.0 2.5 1.9 m 3.0 3.5 2.9 m 1.7 2.2	(0.0) (0.1) (0.0) (0.1) m (0.0) m (0.0) m (0.1) (0.0) m (0.1) (0.1) (0.0) m (0.1) (0.0) m (0.2) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	1.8 1.9 2.6 3.0 2.0 m m 3.5 m m m 2.7 3.5 m m 2.3 2.6 2.2 m 4.1 3.6 3.2 3.1 m 2.0 2.3	(0.0) (0.0) (0.0) (0.1) (0.0) (0.1) m (0.0) m (0.0) m (0.1) (0.0)	1.9 1.9 1.9 2.8 3.1 2.2 m m 3.5 m m m 3.2 3.6 m m 4.2 3.6 3.2 3.3 m 4.2 3.3 m 2.1 2.3	(0.0) (0.1) m m (0.0) m m m (0.0) m m m (0.1) (0.0) m m m (0.1) (0.0) m m (0.0) (0.1) (0.0) m (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.0) (0.1)	2.4 2.5 3.3 3.0 2.8 m m 3.6 m m m 3.4 3.5 m m 4.0 3.7 m 4.0 3.3 3.3 3.4 3.5 m m 2.9 3.1 2.9 3.1 2.9 3.1 2.9 3.1 4.0 3.1 4.0 3.1 4.0 3.1 4.0 4.0 3.1 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	(0.1) (0.0) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	0.7 0.8 1.2 0.2 1.0 m 0.1 m m m 1.5 0.0 m 0.8 0.6 0.6 0.1 0.1 0.1 0.1 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	(0.0 (0.0 (0.0 (0.0 (0.0 (0.0 (0.0 (0.0
Croatia Cyprus* Dominican Republic FYROM Georgia Hong Kong (China) Indonesia Jordan Kosovo Lebanon Lithuania Macao (China) Malta Moldova Montenegro Peru Qatar Romania Russia Singapore Chinese Taipei Thailand Trinidad and Tobago Tunisia United Arab Emirates Uruguay	2.0 2.7 3.0 2.2 m m 3.6 m m m 2.8 3.5 m m 2.4 2.8 2.2 m a 3.6 3.6 3.3 3.6 3.6 3.3 3.6 3.6 3.6 3.6	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0) m m (0.0) m m m (0.0) (0.0) (0.0) (0.0) (0.0) m (0.0)	1.1 1.1 1.9 1.1 1.5 m m 0.8 m m m 1.9 0.8 m m 1.9 0.8 m 1.3 1.4 m 1.2 1.2 1.1 1.1	(0.0) (0.0) (0.0) (0.0) m m (0.0) m m (0.0) m m (0.0) m m (0.0) (0.0) m (0.0) (0.0) (0.0) (0.0) m (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	1.8 2.1 2.8 1.8 m m 3.6 m m m 3.6 m m 2.0 2.5 1.9 m 3.0 3.5 2.0 2.5 1.9 m 3.0 3.5 2.0 2.5 2.9 m 1.7 2.2 2.6	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m m (0.1) (0.0) m m (0.1) (0.0) m (0.1) (0.0) m (0.2) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	1.8 1.9 2.6 3.0 2.0 m m 3.5 m m m 2.7 3.5 m m 2.3 2.6 2.2 m 4.1 3.6 3.2 3.1 m 2.0 2.3 2.8	(0.0) (0.0) (0.0) (0.1) (0.1) m m m (0.1) (0.0) m m m (0.1) (0.0) m (0.1) (0.0) m (0.1) (0.0) m (0.1) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	1.9 1.9 2.8 3.1 2.2 m m 3.5 m m m 3.2 3.6 6 m 4.2 3.6 3.2 3.6 3.2 3.3 3.0	(0.0) (0.1) (0.0) (0.1) m m (0.0) m m m (0.1) (0.0) m m (0.1) (0.0) m (0.1) (0.0) (0.1) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	2.4 2.5 3.3 3.0 2.8 m m m 3.6 m m m 3.4 3.5 m m m 3.4 3.5	(0.1) (0.0) (0.1) (0.0) (0.1) (0.0) (0.1) m m (0.0) m m (0.1) (0.0) m (0.0) (0.1) (0.0) m (0.1) (0.0) m (0.0)	0.7 0.8 1.2 0.2 1.0 m m m m m 1.5 0.0 m m m m 1.5 0.0.0 m m m m m m m m m m m m m	(0. (0. (0. (0. (0. (0. (0. (0. (0. (0.



[Part 2/3]

Table II.6.51 Number of years at pre-primary school, science performance and school characteristics

nes	sults based on studer	its seii-re	eports		N	umber of y	oare atton	ding pro p	riman, sch	ool (ISCED	(I) in voc	wc1			
						l location	ears atten	ning pre-p	rimary scii	OOI (ISCED	o), iii yea	By type o	of school		
		Rural area (fewe 3 000 p	r than		wn 00 to	Ci	/ér	City - rı	ıral area	Pul	olic	Priv		Private	– public
		Years	S.E.	Years	S.E.	Years	S.E.	Dif.	S.E.	Years	S.E.	Years	S.E.	Dif.	S.E.
Q	Australia	2.1	(0.1)	2.1	(0.0)	2.2	(0.0)	0.1	(0.1)	2.1	(0.0)	2.2	(0.0)	0.1	(0.0)
OECD	Austria Belgium	3.0	(0.1)	3.1 3.7	(0.0)	3.3	(0.0)	0.3	(0.1)	3.2 w	(0.0) W	3.4 w	(0.1) w	0.3 W	(0.1) w
_	Canada	1.9	(0.1)	1.9	(0.0)	2.1	(0.0)	0.0	(0.1)	2.0	(0.0)	2.2	(0.1)	0.2	(0.1)
	Chile	1.9	(0.3)	2.1	(0.0)	2.2	(0.0)	0.2	(0.3)	2.1	(0.0)	2.2	(0.0)	0.1	(0.0)
	Czech Republic	3.6	(0.1)	3.4	(0.0)	3.5	(0.0)	-0.1	(0.1)	3.5	(0.0)	3.4	(0.0)	-0.1	(0.0)
	Denmark Estonia	3.7	(0.0)	3.8 4.4	(0.0)	3.8 4.3	(0.0)	0.1 0.6	(0.1)	3.7 4.2	(0.0)	3.8 4.3	(0.0)	0.0 0.1	(0.0)
	Finland	2.8	(0.1)	3.1	(0.0)	3.6	(0.0)	0.8	(0.1)	3.2	(0.0)	3.7	(0.1)	0.1	(0.1)
	France	3.6	(0.0)	3.4	(0.0)	3.5	(0.0)	-0.1	(0.1)	3.4	(0.0)	3.4	(0.0)	0.0	(0.0)
	Germany	3.6	(0.2)	3.4	(0.0)	3.4	(0.0)	-0.3	(0.2)	3.4	(0.0)	3.3	(0.1)	-0.1	(0.1)
	Greece Hungary	2.6 3.8	(0.1)	2.8 3.8	(0.0)	2.8 3.8	(0.0)	0.2	(0.1)	2.8 3.8	(0.0)	2.9 3.8	(0.1)	0.1 0.0	(0.1)
	Iceland	4.1	(0.1)	4.0	(0.0)	3.8	(0.0)	-0.2	(0.1)	3.9	(0.0)	C C	(0.0) C	С.0	(0.0) C
	Ireland	1.9	(0.1)	2.0	(0.0)	2.3	(0.0)	0.4	(0.1)	2.0	(0.0)	2.1	(0.0)	0.1	(0.0)
	Israel	3.5	(0.1)	3.5	(0.0)	3.6	(0.0)	0.1	(0.1)	m	m	m	m	m	m
	Italy Japan	3.3 c	(0.0) C	3.3 3.5	(0.0)	3.2 3.5	(0.0)	-0.1 c	(0.1) C	3.3	(0.0)	3.1	(0.1)	-0.1 0.1	(0.1)
	Korea	С	C	3.1	(0.1)	3.0	(0.0)	C	С	3.4	(0.0)	3.0	(0.0)	0.0	(0.0)
	Latvia	3.5	(0.1)	4.0	(0.0)	4.0	(0.1)	0.5	(0.1)	3.9	(0.0)	3.7	(0.4)	-0.2	(0.4)
	Luxembourg	m	m	2.8	(0.0)	2.9	(0.0)	m	m	2.9	(0.0)	3.0	(0.0)	0.1	(0.0)
	Mexico Netherlands	2.7 m	(0.1) m	2.8 m	(0.0) m	2.8 m	(0.0) m	0.1 m	(0.1) m	2.8 m	(0.0) m	3.1 m	(0.1) m	0.3 m	(0.1) m
	New Zealand	2.8	(0.1)	2.7	(0.0)	2.7	(0.0)	0.0	(0.1)	2.7	(0.0)	2.7	(0.1)	0.0	(0.1)
	Norway	3.7	(0.1)	3.7	(0.0)	3.8	(0.1)	0.1	(0.1)	3.7	(0.0)	3.8	(0.2)	0.1	(0.2)
	Poland	2.0	(0.1)	2.6	(0.1)	3.1	(0.1)	1.1	(0.1)	2.4	(0.1)	3.3	(0.2)	0.9	(0.2)
	Portugal Slovak Republic	1.3	(0.1)	1.5 3.3	(0.0)	1.7 3.6	(0.0)	0.5 0.8	(0.1)	1.5 3.3	(0.0)	1.7 3.2	(0.1)	0.1 -0.1	(0.1)
	Slovenia	3.0	(0.1)	3.1	(0.0)	3.4	(0.1)	0.4	(0.1)	3.2	(0.0)	3.3	(0.1)	0.1	(0.1)
	Spain	3.4	(0.1)	3.3	(0.0)	3.4	(0.0)	0.0	(0.1)	3.2	(0.0)	3.6	(0.0)	0.4	(0.0)
	Sweden	4.2	(0.1)	4.4	(0.0)	4.5	(0.1)	0.3	(0.2)	4.4	(0.0)	4.6	(0.1)	0.2	(0.1)
	Switzerland Turkev	2.5 0.8	(0.1)	2.5	(0.0)	2.5 1.0	(0.0)	0.0	(0.1)	2.5 1.0	(0.0)	2.6 1.7	(0.1)	0.1	(0.1)
	United Kingdom	2.6	(0.2)	2.5	(0.0)	2.5	(0.0)	-0.1	(0.2)	2.5	(0.0)	2.8	(0.4)	0.7	(0.4)
	United States	2.1	(0.1)	2.3	(0.0)	2.2	(0.1)	0.1	(0.1)	2.2	(0.0)	2.8	(0.1)	0.6	(0.1)
	OECD average	2.9	(0.0)	3.0	(0.0)	3.1	(0.0)	0.2	(0.0)	3.0	(0.0)	3.1	(0.0)	0.2	(0.0)
rs.	Albania	m	m	m	m	m	m	m	m	m	m	m	m	m	m
Partners	Algeria	m	m (0.2)	m	m	m	m (0,0)	m	m (0.2)	m	m (0,0)	m	m	m	m
Ра	Brazil B-S-J-G (China)	3.0 1.9	(0.2)	3.2 2.4	(0.0)	3.5 3.1	(0.0)	0.5 1.3	(0.2)	3.2 2.6	(0.0)	3.7 2.7	(0.1)	0.5 0.0	(0.1)
	Bulgaria	3.5	(0.2)	3.8	(0.0)	3.9	(0.0)	0.4	(0.2)	3.8	(0.0)	С	C	С	C
	CABA (Argentina)	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Costa Rica	1.8	(0.1)	1.8 2.1	(0.1)	2.1 1.9	(0.0)	0.4 0.0	(0.1)	1.8 2.0	(0.0)	2.5 1.9	(0.1)	0.7 -0.1	(0.1)
	Costa Rica Croatia	1.9 c	(U.U)	2.1	(0.0)	3.2	(0.1)	0.0 C	(U.1)	2.7	(0.0)	3.0	(0.1)	0.3	(0.1)
	Cyprus*	2.8	(0.1)	3.0	(0.0)	3.0	(0.0)	0.2	(0.1)	3.0	(0.0)	2.9	(0.0)	0.0	(0.1)
	Dominican Republic	1.8	(0.1)	2.2	(0.1)	2.6	(0.1)	0.8	(0.1)	2.0	(0.0)	2.8	(0.1)	0.8	(0.1)
	FYROM	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Georgia Hong Kong (China)	m m	m m	m m	m m	3.6	(0.0)	m m	m m	m 3.6	(0.0)	3.6	(0.0)	m -0.1	(0.0)
	Indonesia	m	m	m	m	m	(0.0) m	m	m	m	(0.0) m	m	(0.0) m	m	(0.0) m
	Jordan	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Kosovo	m	m m	m	m	m	m m	m	m	m	m	m	m m	m	m
	Lebanon Lithuania	1.7	(0.1)	2.8	m (0.1)	m 3.4	(0.0)	m 1.8	(0.1)	2.8	(0.0)	m 3.2	(0.2)	m 0.4	(0.2)
	Macao (China)	C	(0.1) C	2.0 C	(0.1) C	3.5	(0.0)	С.	(O.1)	2.0 C	(0.0) C	3.5	(0.0)	С. Т	(0.2) C
	Malta	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Moldova	m	m	m	m (0,0)	m	m (0,0)	m	m	m 2.4	m (0,0)	m	m	m	m
	Montenegro Peru	2.6	(0.1)	2.2	(0.0)	2.8 2.9	(0.0)	0.3	(0.1)	2.4 2.7	(0.0)	3.1	(0.0)	0.4	(0.1)
	Qatar	1.8	(0.1)	2.1	(0.0)	2.3	(0.0)	0.5	(0.1)	2.0	(0.0)	2.5	(0.0)	0.5	(0.0)
	Romania	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Russia	2.9	(0.2)	3.9	(0.1)	4.0	(0.1)	1.1	(0.2)	3.8	(0.1)	C 2.4	(O 1)	C	(O 1)
	Singapore Chinese Taipei	m C	m C	m 3.3	m (0.0)	3.6	(0.0)	m C	m c	3.6 3.2	(0.0)	3.4	(0.1)	-0.2 0.0	(0.1)
	Thailand	3.0	(0.1)	3.2	(0.0)	3.3	(0.0)	0.3	(0.1)	3.1	(0.0)	3.3	(0.1)	0.2	(0.1)
	Trinidad and Tobago	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Tunisia	1.5	(0.2)	2.0	(0.0)	2.2	(0.0)	0.7	(0.3)	2.0	(0.0)	2.2	(0.2)	0.2	(0.2)
	United Arab Emirates Uruguay	2.3	(0.1)	2.2	(0.0)	2.3 3.2	(0.0)	0.1 0.7	(0.1)	2.2	(0.0)	2.3 3.8	(0.0)	0.1 0.9	(0.0)
	Viet Nam	m 2.5	(0.1) m	m	(0.0) m	m	(0.0) m	m	(0.1) m	2.9 m	(0.0) m	m	(0.1) m	m	(0.1) m
	Argentina**	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Kazakhstan**	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Malaysia**	2.3	(0.1)	2.4	(0.1)	2.8	(0.0)	0.5	(0.1)	2.5	(0.0)	3.3	(0.1)	0.8	(0.1)

^{1.} Students who did not attend are given a value of «0». Students who attended between 0 and 1 years are given a value of «0.5» years, students who attended between 1 and 2 years are given a value of «1.5»; and the same logic applies for other responses.

2. The socio-economic profile is measured by the PISA index of economic, social and cultural status

Note: Values that are statistically significant are indicated in bold (see Annex A3).

*See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

StatLink *** Indicated the state of


[Part 3/3]

Table II.6.51 Number of years at pre-primary school, science performance and school characteristics

			eports		N	umber of	years atten	ding pre-pr	imary sch	ool (ISCEE	0), in yea	rs¹			
				By educa	tion level		,	Before	e account ools' socio	ing for stu	dents' c profil ²		r accounti		
		educ	econdary cation ED 2)	Upper se	econdary ation ED 3)	ISCED 3	- ISCED 2	Chan the scien per year a pre-prima	ge in ce score attending	Explained in str perfor	d variance udent rmance red x 100)	Chan the scien	nge in nce score attending nry school	Explained in st perfor	d variance udent rmance red x 100)
		Years	S.E.	Years	S.E.	Dif.	S.E.	Score dif.	S.E.	%	S.E.	Score dif.	S.E.	%	S.E.
	Australia	2.1	(0.0)	2.0	(0.0)	-0.1	(0.0)	3	(1.1)	0.1	(0.1)	-2	(1.0)	16.3	(1.2)
2	Austria	3.3	(0.3)	3.2	(0.0)	-0.2	(0.3)	-1	(1.9)	0.0	(0.1)	-7	(1.6)	31.8	(1.9)
	Belgium	3.7	(0.1)	3.7	(0.0)	0.0	(0.1)	0	(1.6)	0.0	(0.0)	0	(1.2)	36.3	(2.1)
	Canada Chile	2.0	(0.1)	2.0	(0.0)	-0.2	(0.1)	2 -1	(1.2)	0.1	(0.1)	-2 -6	(1.1)	11.4	(1.0)
	Czech Republic	3.6	(0.1)	3.3	(0.0)	-0.2 -0.3	(0.1)	6	(2.4)	0.0	(0.1)	4	(1.9)	26.5 34.6	(1.6)
	Denmark	3.7	(0.0)	C	(0.0) C	C	(0.0) C	7	(1.4)	0.7	(0.3)	5	(1.3)	12.7	(1.4)
	Estonia	4.2	(0.0)	3.3	(0.3)	-0.9	(0.3)	0	(1.0)	0.0	(0.0)	-3	(1.0)	11.1	(1.3)
	Finland	3.2	(0.0)	С	С	С	С	5	(1.1)	0.8	(0.3)	1	(1.0)	10.7	(1.3)
	France	3.3	(0.0)	3.5	(0.0)	0.2	(0.0)	9	(2.1)	0.7	(0.4)	5	(1.5)	38.0	(2.0)
	Germany	3.4	(0.0)	3.3	(0.1)	-0.1	(0.1)	7	(1.8)	0.7	(0.3)	5	(1.4)	34.2	(2.0)
	Greece Hungary	2.5 3.8	(0.2)	2.8 3.8	(0.0)	0.3	(0.2)	7	(1.4)	0.6	(0.3)	3	(1.3)	22.9 44.9	(2.6)
	Iceland	4.0	(0.0)	m	(0.0) m	m	(0.1) m	0	(2.1)	0.0	(0.2)	0	(2.2)	5.2	(1.0)
	Ireland	2.1	(0.0)	1.9	(0.0)	-0.3	(0.0)	0	(1.6)	0.0	(0.0)	-2	(1.4)	14.2	(1.3)
	Israel	3.8	(0.1)	3.5	(0.0)	-0.3	(0.1)	3	(1.9)	0.1	(0.2)	-3	(1.3)	23.6	(2.5)
	Italy	2.5	(0.2)	3.2	(0.0)	0.8	(0.2)	7	(1.7)	0.5	(0.2)	5	(1.5)	24.2	(2.2)
	Japan	m	m	3.5	(0.0)	m	m	-3	(1.4)	0.1	(0.1)	-3	(1.1)	28.6	(2.4)
	Korea	3.1	(0.1)	3.0	(0.0)	-0.1	(0.1)	-2	(1.3)	0.1	(0.1)	-2	(1.3)	17.8	(2.1)
	Latvia	3.9	(0.0)	3.1	(0.1)	-0.8	(0.1)	0	(1.1)	0.0	(0.0)	-2 2	(1.0)	13.1	(1.6)
	Luxembourg Mexico	2.8 2.9	(0.0)	2.9	(0.0)	0.1 -0.1	(0.0)	6	(1.5) (1.7)	0.4	(0.2)	-3	(1.3)	35.1 17.1	(1.1)
	Netherlands	m	(0.0) m	m	(0.0) m	m	(0.1) m	m	m	m	(0.1) m	m	m	m	(2.0) m
	New Zealand	2.6	(0.1)	2.7	(0.0)	0.2	(0.1)	3	(1.9)	0.1	(0.1)	1	(1.7)	18.5	(1.6)
	Norway	3.7	(0.0)	С	С	С	С	7	(1.1)	1.0	(0.3)	3	(1.1)	9.2	(1.0)
	Poland	2.5	(0.1)	С	С	С	C	8	(1.1)	2.3	(0.6)	0	(1.1)	15.8	(1.6)
	Portugal	1.5	(0.0)	1.5	(0.0)	0.0	(0.0)	2	(1.5)	0.1	(0.1)	-3	(1.5)	20.2	(2.2)
	Slovak Republic	3.3	(0.0)	3.3	(0.0)	0.0	(0.1)	11	(1.9)	2.0	(0.7)	-3	(1.3)	30.5	(2.3)
	Slovenia Spain	2.9 3.4	(0.2)	3.2 c	(0.0) C	0.3 c	(0.2) C	1 12	(1.0)	0.0 2.0	(0.1)	7	(0.8)	35.9 15.2	(1.3)
	Sweden	4.4	(0.0)	4.1	(0.2)	-0.3	(0.2)	10	(1.5)	2.7	(0.8)	6	(1.4)	17.3	(1.2)
	Switzerland	2.5	(0.0)	2.4	(0.0)	-0.2	(0.0)	-14	(2.1)	1.5	(0.4)	-15	(1.9)	27.7	(2.0)
	Turkey	0.8	(0.1)	1.0	(0.0)	0.2	(0.1)	2	(1.8)	0.2	(0.2)	-5	(1.2)	27.3	(4.1)
	United Kingdom	2.5	(0.1)	2.5	(0.0)	0.0	(0.1)	13	(1.4)	1.8	(0.4)	7	(1.2)	18.1	(1.6)
	United States	2.3	(0.1)	2.2	(0.0)	0.0	(0.1)	4	(1.2)	0.3	(0.2)	-3	(1.0)	13.9	(1.5)
	OECD average	3.0	(0.0)	2.9	(0.0)	-0.1	(0.0)	4	(0.3)	0.6	(0.1)	0	(0.2)	22.3	(0.3)
	Albania	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Algeria	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Brazil	3.5	(0.1)	3.3	(0.0)	-0.2	(0.1)	-2	(0.8)	0.2	(0.1)	-4	(0.6)	24.0	(2.1)
	B-S-J-G (China)	2.5	(0.1)	2.8	(0.1)	0.3	(0.1)	20	(1.9)	9.6	(1.6)	4	(1.3)	35.3	(3.0)
	Bulgaria CABA (Argentina)	3.0 m	(0.4) m	3.8 m	(0.0) m	0.9 m	(0.4) m	4 m	(1.3) m	0.3 m	(0.2) m	-1 m	(1.0) m	38.3 m	(2.7) m
	Colombia	2.0	(0.0)	1.9	(0.0)	-0.1	(0.0)	5	(1.7)	0.4	(0.3)	-6	(1.1)	21.7	(2.4)
	Costa Rica	2.0	(0.0)	2.0	(0.0)	0.0	(0.0)	7	(1.5)	1.1	(0.5)	-2	(1.1)	22.0	(2.1)
	Croatia	С	С	2.7	(0.0)	С	С	4	(0.9)	0.7	(0.3)	-3	(0.8)	25.1	(2.0)
	Cyprus*	3.0	(0.1)	3.0	(0.0)	0.0	(0.1)	4	(1.5)	0.2	(0.2)	1	(1.4)	17.6	(1.1)
	Dominican Republic	2.0	(0.1)	2.2	(0.0)	0.2	(0.1)	4	(1.3)	0.8	(0.5)	-3	(1.0)	26.2	(2.9)
	FYROM	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Georgia	3.6	(0.0)	m	(O, O)	-0.1	(O, O)	m 3	m (2.2)	0.1	(0.1)	m 1	m (1.9)	13.1	(2.0)
	Hong Kong (China) Indonesia	3.6 m	(0.0) m	3.5 m	(0.0) m	-0.1	(0.0) m	m	(2.2) m	m	(0.1) m	m	(1.9) m	13.1 m	(2.0) m
	Jordan	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Kosovo	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Lebanon	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Lithuania	2.8	(0.0)	С	С	С	C	3	(1.0)	0.4	(0.3)	-4	(0.8)	22.1	(2.4)
	Macao (China)	3.6	(0.0)	3.5	(0.0)	-0.1	(0.0)	3	(2.0)	0.1	(0.1)	3	(2.0)	2.1	(0.5)
	Malta Moldova	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m
	Montenegro	2.2	(0.3)	2.4	(0.0)	0.2	(0.3)	-1	(0.7)	0.0	(0.1)	-5	(0.7)	18.4	(1.1)
	Peru	2.7	(0.1)	2.8	(0.0)	0.1	(0.1)	4	(1.2)	0.5	(0.1)	-3	(0.9)	29.9	(2.2)
	Qatar	2.2	(0.0)	2.2	(0.0)	0.0	(0.0)	2	(0.9)	0.1	(0.1)	-3	(0.8)	12.8	(0.6)
	Romania	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Russia	3.9	(0.1)	3.0	(0.2)	-0.9	(0.2)	1	(1.1)	0.0	(0.1)	-2	(0.9)	9.3	(1.8)
	Singapore	3.0	(0.2)	3.6	(0.0)	0.6	(0.2)	8	(1.5)	0.9	(0.3)	4	(1.2)	26.5	(1.8)
	Chinese Taipei Thailand	3.4	(0.0)	3.1	(0.0)	-0.2	(0.0)	-2 3	(1.1)	0.1	(0.1)	-4 -2	(1.0)	27.5	(2.7)
	Trinidad and Tobago	3.0 m	(0.0) m	3.2 m	(0.0) m	0.2 m	(0.0) m	m m	(1.3) m	0.2 m	(0.1) m	-2 m	(1.0) m	17.8 m	(3.1) m
	Tunisia	1.9	(0.1)	2.0	(0.0)	0.1	(0.1)	0	(1.2)	0.0	(0.1)	-4	(1.1)	19.9	(3.2)
	United Arab Emirates	2.3	(0.1)	2.3	(0.0)	0.0	(0.1)	-1	(1.2)	0.0	(0.0)	-4	(1.1)	13.6	(1.8)
	Uruguay	2.7	(0.0)	3.1	(0.0)	0.4	(0.0)	16	(1.3)	5.1	(0.8)	4	(1.0)	26.3	(1.8)
	Viet Nam	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Argentina**	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Kazakhstan**	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Malaysia**	2.8	(0.2)	2.5	(0.0)	-0.3	(0.2)	8	(2.0)	1.3	(0.6)	-2	(1.3)	18.2	(2.4)

^{1.} Students who did not attend are given a value of «0». Students who attended between 0 and 1 years are given a value of «0.5» years, students who attended between 1 and 2 years are given a value of «1.5»; and the same logic applies for other responses.

2. The socio-economic profile is measured by the PISA index of economic, social and cultural status

Note: Values that are statistically significant are indicated in bold (see Annex A3).

** See note at the beginning of this Annex.

** Coverage is too small to ensure comparability (see Annex A4).

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[Part 1/1]

Table II.6.53 Compulsory and intended instruction time, by age (2016)

Number of hours per year for 5-15 year-olds in public institutions

	mber of hours per y		3 13 year	Olds III p	abile ilise		hours per y	ear of total	intended in	struction tin	ne		
		Source	Age 51	Age 6 ¹	Age 7	Age 8	Age 9	Age 10	Age 11	Age 12	Age 13	Age 14	Age 15 (typical programme)
0	Australia	a	m	m	m	m	m	m	m	m	m	m	m
OECD	Austria	a	a	m	m	m	m	m	m	m	m	m	a
0	Belgium (Fl.) Belgium (Fr.)	a	a a	826 m	826 m	826 m	826 m	826 m	826 m	952 m	952 m	952 m	952 m
	Canada	a	a	914	914	922	922	922	923	928	937	925	940
	Chile	a	a	994	994	1 061	1 061	1 061	1 061	1 072	1 071	1 168	1 164
	Czech Republic ²	a	a	m	m	m	m	m	m	m	m	m	a
	Denmark England (UK)	a	a m	1 000 m	1 000 m	1 000	1 000 m	1 120	1 120 m	1 120 m	1 200 m	1 200 m	1 200 a
	Estonia ²	a	a	a	595	595	595	726	726	726	823	823	823
	Finland ²	a	a	a	610	610	671	671	724	678	901	901	901
	France	a	a	864	864	864	864	864	964	1 000	1 252	1 144	1 144
	Germany ³	a	a	632	656	756	768	870	893	913	922	937	946
	Greece Hungary	a	a a	1 067 679	1 067 679	1 059 679	1 059 625	1 068 760	1 068 760	785 842	785 697	785 945	972
	Iceland ²	a	a	680	680	680	680	793	793	793	839	839	839
	Ireland	a	a	915	915	915	915	915	915	935	935	935	935
	Israel ²	а	a	910	910	967	987	997	997	978	1 005	1 014	1 107
	Italy	a	a	891 689	891 734	891 760	891 797	891 797	990 797	990 895	990 895	915 895	915
	Japan Korea ²	a	a a	560	560	657	657	725	725	842	842	842	a a
	Latvia	a	a	a	m	m	m	m	m	m	m	m	m
	Luxembourg ²	a	a	899	949	924	924	924	924	845	845	845	845
	Mexico	a	a	800	800	800	800	800	800	1 167	1 167	1 167	990
	Netherlands ⁴ New Zealand	a	a m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m a
	Norway ²	a	a	748	748	748	748	748	748	748	874	874	874
	Norway ² Poland ^{2, 5}	a	a	a	612	612	612	765	776	776	874	874	874
	Portugal	a	a	1 080	1 080	1 080	1 080	958	958	945	918	893	972
	Scotland (UK)	a	m	m	m	m	m	m	m	m	m	m	m
	Slovak Republic Slovenia	a	a a	630 739	659 712	716 739	745 844	774 896	831 844	860 962	860 975	860 848	1 031 a
	Spain	a	a	790	791	792	791	792	790	1 042	1 041	1 049	1 060
	Sweden ²	a	a	m	m	m	m	m	m	m	m	m	m
	Switzerland	a	a	m	m	m	m	m	m	m	m	m	a
	Turkey United States ⁶	a	a a	720 m	720 m	720 m	720 m	843 m	843 m	843 m	842 m	960 m	960 m
rs.	Albania	b	m	m	m	m	m	m	m	m	m	m	m
Ę,	Algeria	b	m	900	900	900	900	900	900	1 080	m 1 080	1 080	m 1 080
Partners	Argentina / Brazil	a	a	m	m			m		m	m	m	a a
_	B-S-J-G (China)	b	m	m	m	m	m	m	m	m	m	m	m
	Bulgaria ⁸	b	a	a	470	485	619	619	867	867	867	867	972
	Colombia	a	a	m	m	m	m	m	m	m	m	m	a
	Costa Rica Croatia ⁹	b	m a	m a	m 525	525	m 525	578	735	761	m 840	840	840
	Cyprus*10	b	a	817	817	817	817	817	817	851	851	851	799
	Dominican Republic	b	a	746	746	746	746	746	746	826	826	991	991
	FYROM	b	a	552	624	696	720	792	864	816	864	888	863
	Georgia Hong Kong (China)	b	a a	411 950	528 950	587 950	599 950	714 950	714 950	714 1 045	778 1 045	842 1 045	816 1 140
	Indonesia	b	m	m	m	m	m	m	m	m	m	m	m
	Iordan	Ь	m	m	m	m	m	m	m	m	m	m	m
	Kazakhstan ¹¹	b	a	459	765	765	765	918	918	918	918	918	995
	Kosovo Lebanon	b	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m
	Lithuania	b	a	a	445	600	624	600	672	765	791	816	867
	Macao (China)11	b	a	697	697	697	697	697	697	720	720	720	720
	Malaysia	b	m	m	m	m	m	m	m	m	m	m	m
	Maltá ¹² Moldova	b	822 m	822 m	822 m	812 m	812 m	784 m	783 m	783 m	783 m	783 m	783 m
	Montenegro ¹³	b	a	510	510	510	599	650	663	765	765	698	891
	Peru	Ь	a	825	825	825	825	825	825	900	900	900	900
	Qatar	b	m	m	m	m	m	m	m	m	m	m	m
	Romania	Ь	m	m	m	m	m	m	m	m	m	m	m
	Russia Singapore	a b	a a	884	858	803	803	803	572	765	793	782	m 675
	Chinese Taipei	b	a	613	613	773	773	853	853	1 050	1 050	1 050	1 333
	Thailand .	b	a	a	833	833	833	833	833	833	1 000	1 000	1 000
	Trinidad and Tobago	b	m	m	m	m	m	m	m	m	m	m	m
	Tunisia United Arab Emirates	b	m a	m 919	919	919	919	919	1 021	m 1 021	m 1 021	1 021	m 1 021
	Uruguay Emirates	b	a	774	774	774	774	774	774	630	630	630	630
	Viet Nam	b	m	m	m	m	m	m	m	m	m	m	m

- 1. Only if applicable to primary education.
- Year of reference 2015.

- Year of reference 2015.
 Estimated instruction time per age, as the allocation of instruction time across multiple grades is flexible.
 Excludes the last year of pre-vocational secondary education (VMBO) for 15-year-old students.
 In the 2015/16 school year, primary education was compulsory for six-year-old children, but in 2016/17 school year, primary school is compulsory for seven-year-old children and admission of six-year-olds to grade 1 of primary school is left to the parents' discretion.
 Year of reference 2015.
 Year of reference 2015.
 In the 2015/16 school year, primary education was compulsory for six-year-old students.
 In the 2015/17 school year, primary school is compulsory for seven-year-old children and admission of six-year-olds to grade 1 of primary school is left to the parents' discretion.
 Year of reference 2015.
 Year
- in the length of the school year (180 days) may also exist. These estimates include breaks between classes or other types of interruptions as well a for festivities, such as national holidays.

 8. Minimum instruction time in general education, compulsory for all schools. Instruction time may vary depending on the type of schools/tracks.

 9. General and vocational programmes combined.

 10. Reference year 2013/14.

- 10. Reference year 2013/14.

 11. Reference year 2014/15.

 12. The duration of class sessions in primary education (ages 5 to 10) varies from 30 to 60 minutes.

 13. Typical programme for 15-year-olds is the first grade of non-compulsory secondary education. Least demanding programme refers to the final year of compulsory education for 15-year-old students who repeated a grade. A three-year vocational school is not reported since it is not compulsory.

 *See note at the beginning of this Annex.

 *Sources: a) Education at a Glance 2016: OECD Indicators (OECD, 2016).

 *b) PISA system-level data collection in 2016.

 **See Note: **ATM New York (As a display 1898) (1998) (1

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[Part 1/4]

Table II.6.54 Teachers' salaries (2014)

								Teachers	with minin	num trainin	g				
				Ratio of sa	laries after to per ca	15 years of pita GDP	experience			Rat	io of salary to startii		cale		to top dary ation
			Lo	wer second	ary	Up	per second	ary	Lo	wer second	ary	Uį	per second	ary	ting
		Source	All education programmes	General	Vocational programmes	All education programmes	General programmes	Vocational programmes	All education programmes	© General programmes	Vocational programmes	All education programmes	General programmes	Vocational programmes	Years from starting to top salary (lower secondary education, all education programmes)
0	Australia ¹	a	m	1.22	m	(4) m	1.20	m	m	1.50	m (9)	(10) m	1.51	(12) m	8
OECD	Austria	a	m	0.98	m	m	1.06	m	m	1.94	m	m	2.07	m	34
0	Belgium (Fl.)	а	m	m	m	m	m	m	m	1.73	m	m	1.76	m	27
	Belgium (Fr.)	а	m	m	m	m	m	m	m	1.60	m	m	1.60	m	27
	Canada	а	m	1.33	m	m	1.34	m	m	1.58	m	m	1.58	m	11
	Chile	а	m	1.11	m	m	1.17	m	m	1.85	m	m	1.85	m	30
	Czech Republic	а	m	0.58	m	m	0.58	m	m	1.14	m	m	1.14	m	27
	Denmark ²	a	m	1.17	m	m	1.28	m	m	1.15 1.58	m	m	1.27	m	12
	England (UK) Estonia	a	m m	m m	m m	m m	m m	m m	m m	m 1.56	m m	m m	m	m m	m m
	Finland ^{1, 2}	a	m	1.04	m	m	1.13	m	m	1.30	m	m	1.32	m	20
	France ³	a	m	0.93	m	m	0.94	m	m	1.74	m	m	1.73	m	29
	Germany	а	m	1.53	m	m	1.62	m	m	1.32	m	m	1.39	m	28
	Greece	а	m	0.92	m	m	0.92	m	m	1.89	m	m	1.89	m	45
	Hungary	а	m	0.78	m	m	0.86	m	m	1.90	m	m	1.90	m	15
	Iceland	а	m	m	m	m	m	m	m	m	m	m	m	m	m
	Ireland	а	m	1.14	m	m	1.14	m	m	2.01	m	m	2.01	m	22
	Israel	а	m	0.89	m	m	0.73	m	m	2.12	m	m	1.93	m	36
	Italy Japan ²	a	m m	1.01	m m	m m	1.03	m m	m m	1.50 2.20	m m	m m	1.57 2.26	m m	35 34
	Korea	a	m m	1.33	m m	m	1.33	m	m	2.20	m m	m m	2.26	m m	37
	Latvia	a	m	m	m	m	m	m	m	m	m	m	m	m	m
	Luxembourg ²	a	m	1.15	m	m	1.15	m	m	1.74	m	m	1.74	m	30
	Mexico	а	m	1.64	m	m	2.56	m	m	1.66	m	m	1.26	m	14
	Netherlands	а	m	1.38	m	m	1.38	m	m	1.74	m	m	1.74	m	12
	New Zealand	а	m	1.17	m	m	1.18	m	m	1.52	m	m	1.53	m	7
	Norway	а	m	0.67	m	m	0.72	m	m	1.22	m	m	1.17	m	16
	Poland	а	m	0.87	m	m	1.00	m	m	1.69	m	m	1.71	m	20
	Portugal	а	m	1.35	m	m	1.35	m	m	1.69	m	m	1.69	m	34
	Scotland (UK)	a	m	m 0.53	m	m	0.53	m	m	1.60 1.35	m	m	1.60 1.35	m	6 32
	Slovak Republic Slovenia	a	m m	0.53 a	m m	m m	0.53 a	m m	m m	1.35 a	m m	m m	a a	m m	25
	Spain	a	m	1.40	m	m	1.41	m	m	1.40	m	m	1.41	m	38
	Sweden ⁴	a	m	0.84	m	m	0.88	m	m	1.33	m	m	1.34	m	a
	Switzerland	a	m	m	m	m	m	m	m	1.53	m	m	1.53	m	26
	Turkey	а	m	1.52	m	m	1.52	m	m	1.14	m	m	1.14	m	27
	United States ⁵	а	m	0.91	m	m	0.97	m	m	1.54	m	m	1.48	m	m

- 1. Statutory salaries do not include the part of social security contributions and pension-scheme contributions paid by employees.
- Statutory salaries include the part of social security contributions and pension-scheme contributions paid by employers.
 Includes the average of fixed bonuses for overtime hours for lower and upper secondary teachers.
 Actual base salaries for 2013.

- 5. Actual base salaries.
- 6. At the lower secondary level, there is no distinction between general and vocational programmes. 7. Reference year 2015/2016.
- 8. Reference year 2014/2015.
- 9. Gross annual salaries reported for vocational programmes include base pay, employer's contribution to retirement schemes, and performance bonus. The salaries of teachers in general programmes include base pay and employer's contribution to retirement funds (there are no performance bonus for these teachers).
- 10. Reference year 2016.
- 11. Salaries include the employer's contribution to retirement as well as transportation and housing allowances. Transportation allowances are provided to all teachers. Housing allowances vary by marital status and are paid to all teachers, except married female teachers if their husbands receive a similar allowance from the government. Teachers in the role of supervisors may be awarded additional allowances.
- 12. Salaries vary depending on teacher's marital status.

- Salaries vary depending on teacher's marital status.
 Reference year 2015.
 Salaries of part-time classroom teachers.
 See note at the beginning of this Annex.
 Sources: a) Education at a Clance 2016: OECD Indicators (OECD, 2016).
 b) PISA system-level data collection in 2016.
 c) GDP and population data: World Bank, International Comparison Program database.
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[Part 2/4]

Table II.6.54 Teachers' salaries (2014)

								Teachers	with minin	num trainin	g				
				Ratio of sa	laries after to per ca	15 years of pita GDP	experience			Rat		at top of song salary	cale		to top dary ation
			Lo	wer second	ary	Up	per second	ary	Lo	wer second	ary	Up	per second	ary	ting
		Source	All education programmes	General	Vocational programmes	(F) All education programmes	General programmes	Vocational programmes	All education programmes	General programmes	Vocational programmes	All education programmes	General	Vocational programmes	Years from starting to top salary (lower secondary education, all education programmes)
-5	Albania	b	m	m	m	m	m	m	m	m	m	m	m	m	m
Partners	Algeria	Ь	m	m	m	m	m	m	m	m	m	m	m	m	m
Par	Argentina	b	0.66	0.66	m	0.66	0.66	m	1.60	1.60	m	1.60	1.60	m	24
	Brazil	a	m	m	m	m	m	m	m	m	m	m	m	m	m
	B-S-J-G (China)	b	m	m	m	m	m	m	m	m	m	m	m	m	m
	Bulgaria	b	0.85	0.85	0.85	0.85	0.85	0.85	2.00	2.00	2.00	2.00	2.00	2.00	20
	Colombia Costa Rica	a b	m m	2.17 m	m	m	2.17	m m	m	1.79	m	m	1.79 m	m m	9 m
	Croatia ⁶	b	m	m	m a	m m	m m	m	m 1.48	m 1.48	m a	m 1.69	m	m	40
	Cyprus*	b	1.98	1.98	1.98	1.98	1.98	1.98	2.43	2.43	2.43	2.43	2.43	2.43	22
	Dominican Republic ⁷	b	1.94	1.94	a	2.31	2.31	2.31	1.15	1.15	a	1.15	1.15	1.15	15
	FYROM	Ь	0.47	0.47	0.47	0.50	0.50	0.50	1.49	1.49	1.49	1.53	1.53	1.53	40
	Georgia	b	m	0.66	a	m	0.66	0.61	m	1.06	a	m	1.06	5.00	m
	Hong Kong (China)8, 9	b	m	1.63	m	m	1.96	m	m	1.80	1.43	m	2.56	1.43	m
	Indonesia	b	m	m	m	m	m	m	m	m	m	m	m	m	m
	Jordan	b	m	m	m	m	m	m	m	m	m	m	m	m	m
	Kazakhstan ⁸ Kosovo	b	0.39	0.39	a	0.39	0.39	0.44	1.18	1.18	a	1.18	1.18	1.21	> 25
	Lebanon	b	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m
	Lithuania ¹⁰	b	0.52	0.53	0.52	0.52	0.53	0.52	1.03	1.01	1.05	1.03	1.01	1.05	15
	Macao (China)8	b	0.73	0.73	0.73	0.73	0.73	0.73	1.54	1.54	1.54	1.54	1.54	1.54	>33
	Malaysia	Ь	m	m	m	m	m	m	m	m	m	m	m	m	m
	Malta ⁶	b	1.18	1.18	a	1.16	1.16	m	1.32	1.32	a	1.32	1.32	m	18
	Moldova	b	m	m	m	m	m	m	m	m	m	m	m	m	m
	Montenegro	b	1.36	1.36	a	1.54	1.54	1.54	1.28	1.28	a	1.30	1.30	1.30	40
	Peru	b	1.00	1.00	1.00	1.00	1.00	1.00	2.52	2.52	2.52	2.52	2.52	2.52	30
	Qatar ¹¹	b	2.00	2.00	m	2.00	2.00	m	2.53	2.53	m	2.53	2.53	m	20
	Romania Russia	b a	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m
	Singapore	b	1.30	1.30	a	1.30	1.30	a	2.81	2.81	a	2.81	2.81	a	m
	Chinese Taipei	b	1.10	1.10	a	1.10	1.10	1.10	1.86	1.86	a	1.86	1.86	1.86	25
	Thailand	b	1.48	1.48	a	1.48	1.48	1.48	1.64	1.64	a	1.64	1.64	1.64	13
	Trinidad and Tobago	b	m	m	m	m	m	m	m	m	m	m	m	m	m
	Tunisia	b	m	m	m	m	m	m	m	m	m	m	m	m	m
	United Arab Emirates 12	b,c	1.80	1.80	1.80	1.80	1.80	1.80	m	m	m	m	m	m	m
	Uruguay ^{13, 14}	b	0.74	0.74	0.74	0.76	0.76	0.76	1.46	1.46	1.46	1.44	1.44	1.44	35
_	Viet Nam	b	m	m	m	m	m	m	m	m	m	m	m	m	m

- 1. Statutory salaries do not include the part of social security contributions and pension-scheme contributions paid by employees.
- Statutory salaries include the part of social security contributions and pension-scheme contributions paid by employers.
 Includes the average of fixed bonuses for overtime hours for lower and upper secondary teachers.
 Actual base salaries for 2013.
- 5. Actual base salaries.
- At the lower secondary level, there is no distinction between general and vocational programmes.
 Reference year 2015/2016.
- 8. Reference year 2014/2015.
- 9. Gross annual salaries reported for vocational programmes include base pay, employer's contribution to retirement schemes, and performance bonus. The salaries of teachers in general programmes include base pay and employer's contribution to retirement funds (there are no performance bonus for these teachers).
- 10. Reference year 2016.
- 11. Salaries include the employer's contribution to retirement as well as transportation and housing allowances. Transportation allowances are provided to all teachers. Housing allowances vary by marital status and are paid to all teachers, except married female teachers if their husbands receive a similar allowance from the government. Teachers in the role of supervisors may be awarded additional allowances.
- 12. Salaries vary depending on teacher's marital status.
- 13. Reference year 2015.

- 13. Referrice year 2013.

 14. Salaries of part-time classroom teachers.

 * See note at the beginning of this Annex.

 * Sources: a) Education at a Clance 2016: OECD Indicators (OECD, 2016).

 b) PISA system-level data collection in 2016.
 c) GDP and population data: World Bank, International Comparison Program database.

 * StatLink** | http://dx.doi.org/10.1787/888933436513



[Part 3/4]

Table II.6.54 Teachers' salaries (2014)

							7	Teachers	with ty	pical tr	aining							
			Ratio		es after o per ca			rience	Rati	o of sala	ıry at top sal		e to star	ting	top ry on	teaching	ding perform used as a cri salary and ad	teria for
			Lowe	er secon	dary	Upp	er secon	dary	Low	er secon	dary	Upp	er secon	dary	g to nda cati	payments	in public ins	
		Source	All education programmes	General programmes	Vocational programmes	Years from starting to top salary (lower secondary education, all education programmes)	Decisions on position in base salary scale	Decisions on supplemental payments that are paid every year	Decisions on supplemental incidental payments									
_			(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)
OECD	Australia ¹	а	m	1.23	m	m	1.21	m	m	1.44	m	m	1.42	m	8	m	m	m
O.E.	Austria	а	m	0.98	m	m	1.06	m	m	1.94	m	m	2.07	m	34	m	m	m
	Belgium (Fl.)	а	m	m	m	m	m	m	m	1.73	m	m	1.76	m	27	m	m	m
	Belgium (Fr.)	а	m	m	m	m	m	m	m	1.72	m	m	1.75	m	27	m	m	m
	Canada	а	m	1.50	m	m	1.50	m	m	1.66	m	m	1.66	m	11	m	m	m
	Chile	а	m	1.20	m	m	1.27	m	m	2.11	m	m	2.11	m	30	m	m	m
	Czech Republic	а	m	0.60	m	m	0.60	m	m	1.22	m	m	1.22	m	27	m	m	m
	Denmark ²	а	m	1.17	m	m	1.28	m	m	1.15	m	m	1.27	m	12	m	m	m
	England (UK)	а	m	m	m	m	m	m	m	1.70	m	m	1.70	m	m	m	m	m
	Estonia	а	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Finland ^{1, 2}	а	m	1.04	m	m	1.13	m	m	1.30	m	m	1.32	m	20	m	m	m
	France ³	а	m	0.93	m	m	0.94	m	m	1.74	m	m	1.73	m	29	m	m	m
	Germany	а	m	1.53	m	m	1.62	m	m	1.32	m	m	1.39	m	28	m	m	m
	Greece	а	m	0.92	m	m	0.92	m	m	1.89	m	m	1.89	m	45	m	m	m
	Hungary	а	m	0.78	m	m	0.86	m	m	1.73	m	m	1.90	m	15	m	m	m
	Iceland	а	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Ireland	а	m	1.20	m	m	1.20	m	m	2.11	m	m	2.11	m	22	m	m	m
	Israel	а	m	0.92	m	m	0.74	m	m	2.63	m	m	2.07	m	36	m	m	m
	Italy	а	m	1.01	m	m	1.03	m	m	1.50	m	m	1.57	m	35	m	m	m
	Japan ²	а	m	1.35	m	m	1.35	m	m	2.20	m	m	2.26	m	34	m	m	m
	Korea	а	m	1.43	m	m	1.43	m	m	2.80	m	m	2.80	m	37	m	m	m
	Latvia	а	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Luxembourg ²	а	m	1.15	m	m	1.15	m	m	1.74	m	m	1.74	m	30	m	m	m
	Mexico	а	m	2.11	m	m	2.99	m	m	2.12	m	m	1.37	m	14	m	m	m
	Netherlands	а	m	1.38	m	m	1.38	m	m	1.74	m	m	1.74	m	12	m	m	m
	New Zealand	а	m	1.20	m	m	1.24	m	m	1.50	m	m	1.51	m	7	m	m	m
	Norway	а	m	0.74	m	m	0.84	m	m	1.18	m	m	1.24	m	16	m	m	m
	Poland	а	m	1.00	m	m	1.00	m	m	1.71	m	m	1.71	m	20	m	m	m
	Portugal	а	m	1.35	m	m	1.35	m	m	1.91	m	m	1.91	m	34	m	m	m
	Scotland (UK)	а	m	m	m	m	m	m	m	1.60	m	m	1.60	m	6	m	m	m
	Slovak Republic	а	m	0.60	m	m	0.60	m	m	1.52	m	m	1.52	m	32	m	m	m
	Slovenia	а	m	1.27	m	m	1.27	m	m	1.81	m	m	1.81	m	25	m	m	m
	Spain	а	m	1.41	m	38	m	m	m									
	Sweden ⁴	а	m	0.84	m	m	0.88	m	m	1.33	m	m	1.34	m	a	m	m	m
	Switzerland	а	m	m	m	m	m	m	m	1.53	m	m	1.53	m	26	m	m	m
	Turkey	а	m	1.52	m	m	1.52	m	m	1.14	m	m	1.14	m	27	m	m	m
	United States ⁵	а	m	1.16	m	m	1.14	m	m	1.52	m	m	1.57	m	m	m	m	m

- 1. Statutory salaries do not include the part of social security contributions and pension-scheme contributions paid by employees.
- 2. Statutory salaries include the part of social security contributions and pension-scheme contributions paid by employers.

 3. Includes the average of fixed bonuses for overtime hours for lower and upper secondary teachers.

 4. Actual base salaries for 2013.

- 5. Actual base salaries.
- 6. At the lower secondary level, there is no distinction between general and vocational programmes. 7. Reference year 2015/2016.
- 8. Reference year 2014/2015.
- 9. Gross annual salaries reported for vocational programmes include base pay, employer's contribution to retirement schemes, and performance bonus. The salaries of teachers in general programmes include base pay and employer's contribution to retirement funds (there are no performance bonus for these teachers). 10. Reference year 2016.
- 11. Salaries include the employer's contribution to retirement as well as transportation and housing allowances. Transportation allowances are provided to all teachers. Housing allowances vary by marital status and are paid to all teachers, except married female teachers if their husbands receive a similar allowance from the government. Teachers in the role of supervisors may be awarded additional allowances.
- 12. Salaries vary depending on teacher's marital status.
- 13. Reference year 2015.

- 13. Referrince year 2013.

 14. Salaries of part-time classroom teachers.

 * See note at the beginning of this Annex.

 Sources: a) Education at a Clance 2016: OECD Indicators (OECD, 2016).

 b) PISA system-level data collection in 2016.
- c) GDP and population data: World Bank, International Comparison Program database.

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[Part 4/4]

Table II.6.54 Teachers' salaries (2014)

							1	Teachers	s with ty	pical tr	aining							
			Ratio	of salario to		15 years pita GD		rience	Rati	o of sala	ıry at to sal		e to sta	rting	top on	teaching	ding perform used as a cri salary and ac	teria for
			Lowe	er secon	dary	Upp	er secon	dary	Low	er secon	dary	Upp	er secor	ndary	g to inda icati		s in public ins	
		Source	All education programmes	General programmes	Vocational programmes	All education programmes	General programmes	Vocational programmes	All education programmes		Vocational programmes	All education programmes	General programmes	Vocational programmes	Years from starting to top salary (lower secondary education, all education programmes)	Decisions on position in base salary scale	Decisions on supplemental payments that are paid every year	Decisions on supplemental incidental payments
			(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)
Partners	Albania	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
rta	Algeria	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
9	Argentina	b	0.66	0.66	m	0.66	0.66	m	1.60	1.60	m	1.60	1.60	m	24	No	No	No
	Brazil	a	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	B-S-J-G (China)	Ь	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Bulgaria	b	0.85	0.85	0.85	0.85	0.85	0.85	2.00	2.00	2.00	2.00	2.00	2.00	20	Yes	Yes	Yes
	Colombia	a	m	2.44	m	m	2.44	m	m	2.04	m	m	2.04	m	9	m	m	m
	Costa Rica	Ь	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Croatia ⁶	Ь	m	m	a	m	m	m	1.48	1.48	a 2.42	1.69	m	m	40	No	Yes	No
	Cyprus*	b	1.98	1.98	1.98	1.98	1.98	1.98	2.43	2.43	2.43	2.43	2.43	2.43	22	No	No	No
	Dominican Republic ⁷	b	1.94	1.94	a	2.31	2.31	2.31	1.15	1.15	a 1 40	1.15	1.15	1.15	15	No	No	No
	FYROM	b	0.47	0.47	0.47	0.50	0.50	0.50	1.49	1.49	1.49	1.53	1.53	1.53	40	Yes	Yes	Yes
	Georgia	Ь	m	0.89	a	m	0.89	0.75	m	2.53	a 1 2 4	m	2.53	8.57	m	Yes	No	No
	Hong Kong (China) ^{8, 9}	b	m	1.63	m	m	2.14	m	m	1.62	1.34	m	2.32	1.34	m	No	No	No
	Indonesia	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Jordan	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Kazakhstan ⁸	b	0.41	0.41	a	0.41	0.41	0.48	1.17	1.17	a	1.17	1.17	1.20	> 25	No	Yes	Yes
	Kosovo	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Lebanon	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Lithuania ¹⁰	b	0.58	0.58	0.58	0.58	0.58	0.58	1.05	1.05	1.05	1.05	1.05	1.05	15	No	No	Yes
	Macao (China) ⁸	b	0.95	0.95	0.95	0.95	0.95	0.95	1.74	1.74	1.74	1.74	1.74	1.74	>33	No	No	No
	Malaysia	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Malta ⁶	b	1.18	1.18	a	1.16	1.16	m	1.32	1.32	a	1.32	1.32	m	18	No	No	No
	Moldova	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Montenegro	b	1.54	1.54	a	1.54	1.54	1.54	1.30	1.30	a	1.30	1.30	1.30	40	Yes	Yes	Yes
	Peru	b	m	m	m	m	m	m	2.52	2.52	2.52	2.52	2.52	2.52	30	No	No	Yes
	Qatar ¹¹	b	2.00	2.00	m	2.00	2.00	m	2.53	2.53	m	2.53	2.53	m	20	Yes	Yes	Yes
	Romania	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Russia	a	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	Singapore	b	1.30	1.30	a	1.30	1.30	a	2.81	2.81	a	2.81	2.81	a	m	Yes	Yes	Yes
	Chinese Taipei	b	1.34	1.34	a	1.34	1.34	1.34	1.87	1.87	a	1.87	1.87	1.87	23	No	Yes	Yes
	Thailand	b	1.92	1.92	a	1.92	1.92	1.92	2.57	2.57	a	2.57	2.57	2.57	23	No	No	No
	Trinidad and Tobago Tunisia	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
			m	m	1 0 4	m	m	m	m	m	m	m	m	m	m	m N-	m N-	m N-
	United Arab Emirates ¹²	b,c	1.84	1.84	1.84	1.84	1.84	1.84	1 41	1 41	1 41	1 20	1 20	1 20	m	No	No	No
	Uruguay ^{13, 14}	b	0.85	0.85	0.85	0.87	0.87	0.87	1.41	1.41	1.41	1.39	1.39	1.39	35	Yes	No	No
_	Viet Nam	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m

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- 2. Statutory salaries include the part of social security contributions and pension-scheme contributions paid by employers.
- 3. Includes the average of fixed bonuses for overtime hours for lower and upper secondary teachers.
- 4. Actual base salaries for 2013.
- 5. Actual base salaries.
- 6. At the lower secondary level, there is no distinction between general and vocational programmes.
- 7. Reference year 2015/2016. 8. Reference year 2014/2015.
- 9. Gross annual salaries reported for vocational programmes include base pay, employer's contribution to retirement schemes, and performance bonus. The salaries of teachers in general programmes include base pay and employer's contribution to retirement funds (there are no performance bonus for these teachers). 10. Reference year 2016.
 11. Salaries include the employer's contribution to retirement as well as transportation and housing allowances. Transportation allowances are provided to all teachers. Housing
- allowances vary by marital status and are paid to all teachers, except married female teachers if their husbands receive a similar allowance from the government. Teachers in the role of supervisors may be awarded additional allowances.

 12. Salaries vary depending on teacher's marital status.

 13. Reference year 2015.

- 14. Salaries of part-time classroom teachers.
- **See note at the beginning of this Annex.

 **Sources: a) Education at a Glance 2016: OECD Indicators (OECD, 2016).

 b) PISA system-level data collection in 2016.
 c) GDP and population data: World Bank, International Comparison Program database.

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[Part 1/1]

Table II.6.55 Teachers' actual teaching time (2014)

Actual average teaching hours in general programmes, over the school year, in public institutions

	Source	Lower secondary	Upper secondary
Australia	a	848	834
Australia Austria Belgium (Fl.)	a	m	m
Belgium (Fl.)	a	m	m
Belgium (Fr.)	a	m	m
Canada	a	m	m
Chile	a	m	m
Czech Republic	a	611	583
Denmark ¹	a	663	386
England	a	745	745
Estonia	a	601	591
Finland	a	m	m
France	a	666	655
Germany	a	m	m
Greece	a	m	m
Hungary	a	648	644
Iceland	a	m	m
Ireland	a	m	m
Israel	a	m	m
Italy	a	a (11	a
Japan	a	611	513
Korea	a	m	m
Latvia	a	m 720	m 720
Luxembourg Mexico	a	739 m	739 m
Netherlands	a	m m	m m
New Zealand	a	m	m
Norway	a	m	m
Poland	a	546	545
Portugal	a	603	585
Scotland	a	m	m
Slovak Republic	a	m	m
Slovenia	a	665	604
Spain	a	m	m
Sweden	a	m	m
Switzerland	a	m	m
Turkey	a	m	m
United States	a	981	m
Albania	Ь	m	m
Albania Algeria Argentina	Ь	m	m
Argentina	b	720	720
Brazil	a	m	m
B-S-J-G (China)	b	m	m
Bulgaria ²	b	520	520
Colombia	a		
Costa Rica		m	m
Costa itica	Ь	m	m
Croatia	b b	m 604	m 551
Croatia Cyprus*	b b b	m 604 600	m 551 510
Croatia Cyprus* Dominican Republic ^{3, 4}	b b b	m 604 600 1 194	m 551 510 1 194
Croatia Cyprus* Dominican Republic ^{3, 4} FYROM	b b b b	m 604 600 1 194 480	m 551 510 1 194 540
Croatia Cyprus* Dominican Republic ^{3, 4} FYROM Georgia	b b b b	m 604 600 1 194 480 576	m 551 510 1 194 540 544
Croatia Cyprus* Dominican Republic ^{3, 4} FYROM Georgia Hong Kong (China)	b b b b b b b b b	m 604 600 1 194 480 576 m	m 551 510 1 194 540 544 m
Croatia Cyprus* Dominican Republic ^{3, 4} FYROM Georgia Hong Kong (China) Indonesia	b b b b b b b b b b	m 604 600 1 194 480 576 m m	m 551 510 1 194 540 544 m m
Croatia Cyprus* Dominican Republic ^{3, 4} FYROM Georgia Hong Kong (China) Indonesia Jordan	b b b b b b b b b b b	m 604 600 1 194 480 576 m m	m 551 510 1 194 540 544 m m
Croatia Cyprus* Dominican Republic ^{3, 4} FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan ⁵	b b b b b b b b b b b b b b	m 604 600 1 194 480 576 m m m	m 551 510 1 194 540 544 m m m
Croatia Cyprus* Dominican Republic ^{3, 4} FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan ⁵ Kosovo	b b b b b b b b b b b b b b b b	m 604 600 1 194 480 576 m m m	m 551 510 1 194 540 544 m m m 510
Croatia Cyprus* Dominican Republic ^{3, 4} FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan ⁵ Kosovo Lebanon	b b b b b b b b b b b b b b b b b b b	m 604 600 1 194 480 576 m m m 510	m 551 510 1 194 540 544 m m m 510 m
Croatia Cyprus* Dominican Republic ^{3, 4} FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan ⁵ Kosovo Lebanon Lithuania	b b b b b b b b b b b b b b b b b b b	m 604 600 1 194 480 576 m m 510 m	m 551 510 1 194 540 544 m m 510 m m 675
Croatia Cyprus* Dominican Republic ^{3, 4} FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan ⁵ Kosovo Lebanon Lithuania Macao (China) ⁵	b b b b b b b b b b b b b b b b b b b	m 604 600 1 194 480 576 m m 510 m 634	m 551 510 1 194 540 544 m m m m m 675
Croatia Cyprus* Dominican Republic ^{3, 4} FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan ⁵ Kosovo Lebanon Lithuania Macao (China) ⁵ Malaysia	b b b b b b b b b b b b b b b b b b b	m 604 600 1 194 480 576 m m 510 m 634 720 m	m 551 510 1 194 540 544 m m 510 m m 675 720 m
Croatia Cyprus* Dominican Republic ^{3, 4} FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan ⁵ Kosovo Lebanon Lithuania Macao (China) ⁵	b b b b b b b b b b b b b b b b b b b	m 604 600 1 194 480 576 m m 510 m 634	m 551 510 1 194 540 544 m m m m m 675
Croatia Cyprus* Dominican Republic ^{3, 4} FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan ⁵ Kosovo Lebanon Lithuania Macao (China) ⁵ Malaysia Malaysia Malaysia	b b b b b b b b b b b b b b b b b b b	m 604 600 1 194 480 576 m m 510 m 634 720 m 414	m 551 510 1 194 540 544 m m 510 m 675 720 m 414
Croatia Cyprus* Dominican Republic ^{3, 4} FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan ⁵ Kosovo Lebanon Lithuania Macao (China) ⁵ Malaysia Malta ³ Moldova Montenegro ⁶ Peru	b b b b b b b b b b b b b b b b b b b	m 604 600 1 194 480 576 m m 510 m 634 720 m 414 m 536	m 551 510 1 194 540 544 m m 510 m 675 720 m 414 m 567 720
Croatia Cyprus* Dominican Republic ^{3, 4} FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan ⁵ Kosovo Lebanon Lithuania Macao (China) ⁵ Malaysia Malta ³ Moldova Montenegro ⁶ Peru Qatar	b b b b b b b b b b b b b b b b b b b	m 604 600 1 194 480 576 m m 510 m 634 720 m 414 m 536	m 551 510 1 194 540 544 m m m 510 m 675 720 m 414 m 567
Croatia Cyprus* Dominican Republic ^{3, 4} FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan ⁵ Kosovo Lebanon Lithuania Macao (China) ⁵ Malaysia Malta ³ Moldova Montenegro ⁶ Peru Qatar Romania	b b b b b b b b b b b b b b b b b b b	m 604 600 1 194 480 576 m m 510 m 634 720 m 414 m 536 720 385 m	m 551 510 1 194 540 544 m m m 510 m 675 720 m 414 m 567 720 359 m
Croatia Cyprus* Dominican Republic ^{3, 4} FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan ⁵ Kosovo Lebanon Lithuania Macao (China) ⁵ Malaysia Malta ³ Moldova Montenegro ⁶ Peru Qatar Romania Russia	b b b b b b b b b b b b b b b b b b b	m 604 600 1 194 480 576 m m 510 m 634 720 m 414 m 536 720 385 m 483	m 551 510 1 194 540 544 m m m 510 m 675 720 m 414 m 567 720 359 m 483
Croatia Cyprus* Dominican Republic ^{3, 4} FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan ⁵ Kosovo Lebanon Lithuania Macao (China) ⁵ Malaysia Malta ³ Moldova Montenegro ⁶ Peru Qatar Romania Russia Singapore	b b b b b b b b b b b b b b b b b b b	m 604 600 1 194 480 576 m m 510 m 634 720 m 414 m 536 720 385 m 483	m 551 510 1 194 540 544 m m m standard m m m 414 m 414 m 567 720 359 m 483 640
Croatia Cyprus* Dominican Republic ^{3, 4} FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan ⁵ Kosovo Lebanon Lithuania Macao (China) ⁵ Malaysia Malta ³ Moldova Montenegro ⁶ Peru Qatar Romania Russia Singapore Chinese Tainei	b b b b b b b b b b b b b b b b b b b	m 604 600 1 194 480 576 m m 510 m 634 720 m 414 m 536 720 385 m 483 640	m 551 510 1 194 540 544 m m m 510 m 675 720 m 414 m 567 720 359 m 483 640 486
Croatia Cyprus* Dominican Republic ^{3, 4} FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan ⁵ Kosovo Lebanon Lithuania Macao (China) ⁵ Malaysia Malta ³ Moldova Montenegro ⁶ Peru Qatar Romania Russia Singapore Chinese Taipei Thailand ^{7, 8}	b b b b b b b b b b b b b b b b b b b	m 604 600 1 194 480 576 m m 510 m 634 720 m 414 m 536 720 385 m 483 640 465	m 551 510 1 194 540 544 m m m 510 m 675 720 m 414 m 567 720 359 m 483 640 486 648
Croatia Cyprus* Dominican Republic ^{3, 4} FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan ⁵ Kosovo Lebanon Lithuania Macao (China) ⁵ Malaysia Malta ³ Moldova Montenegro ⁶ Peru Qatar Romania Russia Singapore Chinese Taipei Thailand ^{7, 8} Trinidad and Tobago	b b b b b b b b b b b b b b b b b b b	m 604 600 1 194 480 576 m m m 510 m m 414 484 720 m 414 484 485 640 485 648 m	m 551 510 1 194 540 544 m m m 510 m 510 m m 414 m 567 720 m 414 m 567 720 359 m 483 640 486 648 m
Croatia Cyprus* Dominican Republic ^{3, 4} FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan ⁵ Kosovo Lebanon Lithuania Macao (China) ⁵ Malaysia Malta ³ Moldova Montenegro ⁶ Peru Qatar Romania Russia Singapore Chinese Taipei Thailand ^{7, 8} Trinidad and Tobago Tunisia	b b b b b b b b b b b b b b b b b b b	m 604 600 1 194 480 576 m m m 510 m 634 720 m 414 m 536 720 385 m 483 640 465 648 m m m	m 551 510 1 194 540 544 m m m m standard m m m m 414 m 414 m 5667 720 m 414 m 5667 720 359 m 483 640 486 648 m m m m m m m m m m m m m m m m m m m
Croatia Cyprus* Dominican Republic ^{3, 4} FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan ⁵ Kosovo Lebanon Lithuania Macao (China) ⁵ Malaysia Malta ³ Moldova Montenegro ⁶ Peru Qatar Romania Russia Singapore Chinese Taipei Thailand ^{7, 8} Trinidad and Tobago Tunisia United Arab Emirates	b b b b b b b b b b b b b b b b b b b	m 604 600 1 194 480 576 m m 576 m m 404 600 1 194 600 600 600 600 600 600 600 600 600 60	m 551 510 1 194 540 544 m m m 510 m m 675 720 m 414 m 567 720 359 m 483 640 486 648 m m m m m m m m m m m m m m m m m m m
Croatia Cyprus* Dominican Republic ^{3, 4} FYROM Georgia Hong Kong (China) Indonesia Jordan Kazakhstan ⁵ Kosovo Lebanon Lithuania Macao (China) ⁵ Malaysia Malta ³ Moldova Montenegro ⁶ Peru Qatar Romania Russia Singapore Chinese Taipei Thailand ^{7, 8} Trinidad and Tobago Tunisia	b b b b b b b b b b b b b b b b b b b	m 604 600 1 194 480 576 m m m 510 m 634 720 m 414 m 536 720 385 m 483 640 465 648 m m m	m 551 510 1194 540 544 m m m m 510 m sm 675 720 m 414 m 5667 720 359 m 483 6640 486 648 m m m m m m m m m m m m m m m m m m m

^{1.} Reference year for upper secondary education is 2015.
2. Estimated average teaching time. Teaching time varies depending on the subject taught.
3. Reference year 2015/16.
4. Estimates based on regular school schedule (5 hours per day).
5. Reference year 2014/15.
6. Estimates based on 21 lessons/week. An average teacher teaches 20 lessons/week.
7. Reference year 2013.
8. Estimates based on minimum statutory time.
9. Reference year 2015.
9. Reference year 2015.
Sources: a) Education at a Glance 2016: OECD Indicators (OECD, 2016).
b) PISA system-level data collection in 2016.
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[Part 1/3]

Table II.6.56 Pre-service teacher training requirements in public institutions (2013)

General programmes

eneral programn		Competitive example of the competitive example e	nination required	to enter pre-service	e teacher training	Durati	on of teacher-train	ning programme, i	n years
	Source	Pre-primary education	Primary education	Lower secondary education	Upper secondary education	Pre-primary education	Primary education	Lower secondary education	Upper secondary education
Australia ¹	a	(1) No	(2) No	(3) No	(4) No	(5) 4	(6)	(7)	(8)
Austria ² Belgium (Fl.) ³	a	Yes	No	a	a	5	4	4.5	4.5
Belgium (Fl.) ³	a	a	a	a	a	3	3	3	5
Belgium (Fr.)	a	a	a	a	a	3	3	3	5
Canada	a	m	m	m	m	m	m	m	m
Chile ⁴	a	a	a	a	a	5	5	5	5.5
Czech Republic	a	Yes	Yes	Yes	Yes	3	5	5	5
Denmark	a	No	No	No	No	3.5	4	4	6
England	a	No	No	No	No	4	4	4	4
Estonia	a	No	No	No	No	3	5	5	5
Finland	a	Yes	Yes	Yes	Yes	3	5	5	5
France	a	a	a	a	a	5	5	5	5
Germany	a	m	a	a	a	3	6.5	6.5	6.5
Greece	a	Yes	Yes	Yes	Yes	4	4	4	4.0
Hungary ⁵	a	No	No	No	No	3	4	5	6
Iceland '	a	a	a	a	a	5	5	5	5
Ireland	a	m V	No	No	No	m	4.6	5	5
Israel	a	Yes	Yes	Yes	Yes	4	4	4	4
Italy	a	Yes	Yes	m	m m	5		6	6
Japan ⁶ Korea ⁶	a	m Voc	m Voc	m Voc	m Voc	2.4 2-4	4	4	4
	a	Yes m	Yes m	Yes m	Yes	2- 4 m	m	m 4	4.0
Luvembourg	a				m	m 4	m 4		m 6.5
Luxembourg Mexico	a	a a	a a	a a	a a	4	4	6.5	6.5
Netherlands	a	a	a	a	a	4	4	4	5.5
New Zealand	a	m	m	m	m	m	m	m	m
Norway	a	a	No	No	No	3	4	4	4-6
Poland	a	a	a	a	a	5.3	5.3	5	5
Portugal	a	Yes	Yes	Yes	Yes	3	3	5	5
Scotland	a	m	m	m	m	4	4	5	5
Slovak Republic	a	No	No	No	No	4	5	5	5
Slovenia	a	No	No	No	No	3	5	5	5
Spain	a	No	No	No	No	4	4	5	5
Sweden ⁷	a	No	No	No	No	3.5	4	4.5	5
Switzerland	a	a	a	a	a	3	3	5	6
Turkey	a	Yes	Yes	Yes	Yes	4	4	4	5
United States	a	m	m	m	m	4	4	4	4
_∞ Albania	Ь	m	m	m	m	m	m	m	m
Algeria	Ď	m	m	m	m	m	m	m	m
Algeria Argentina Brazil	Ď	No	No	No	No	4	4	4	4
Brazil	a	Yes	Yes	Yes	Yes	4	4	4	4
B-S-J-G (China)	b	m	m	m	m	m	m	m	m
Bulgaria	b	Yes	Yes	Yes	Yes	3	3	3	3
Colombia	a	m	m	m	m	m	m	m	m
Costa Rica	b	m	m	m	m	m	m	m	m
Croatia	b	Yes	Yes	Yes	Yes	5	5	5	5
Cyprus*	. b	Yes	Yes	Yes	Yes	4	4	4	4
Dominican Repub		No	No	No	No	4	4	4	4
FYROM	b	No	No	No	No	4	4	4	4
Georgia	-\8 b	Yes	Yes	Yes	Yes	3	4	4	4
Hong Kong (China	a) ⁸ b	a	Yes	Yes	Yes	a	5	5 m	5
Indonesia	b	m	m	m	m	m	m m	m m	m
Jordan Kazakhstan ⁹	b	m Yes	m Yes	m Yes	m Yes	m 4	m 4	m 4	m 4
Kosovo	b								
Lebanon	b	m m	m m	m m	m m	m m	m m	m m	m m
Lithuania	b	Yes	Yes	Yes	Yes	3	4	4	4
Macao (China)9	b	Yes	Yes	Yes	Yes	4	4	4	4
Malaysia	b	m	m	m	m	m	m	m	m
Malta ⁹	b	No	No	No	No	2	4	4	4
Moldova	b	m	m	m	m	m	m	m	m
Montenegro	b	No	No	No	No	4	4	4	4
Peru	Ď	Yes	Yes	Yes	Yes	5	5	5	5
Qatar	b	No	No	No	No	m	m	m	m
Romania	Ď	m	m	m	m	m	m	m	m
Russia	a	Yes	Yes	Yes	Yes	4	4	4	4
Singapore ¹⁰	b	No	No	No	No	2-3	1	1	1
Chinese Taipei	b	Yes	Yes	Yes	Yes	4	4	4	4
Thailand	b	No	No	No	No	m	m	m	m
Trinidad and Toba	go b	m	m	m	m	m	m	m	m
Tunisia	b	m	m	m	m	m	m	m	m
United Arab Emira		a	a	a	a	a	a	a	a
Uruguay ¹¹	b	No	No	No	No	4	4	4	4
Viet Nam	Ь	m	m	m	m	m	m	m	m

- 1. For all levels of education, the awarded qualifications can be a bachelor's or a graduate diploma up to the master's level.
- 2. Lower secondary refers to «academic secondary school, lower level».
 3. Includes all teachers in regular public lower secondary education (col. 19); all teachers in regular public upper secondary education (col. 20).
- Includes all teachers, irrespective of the level of education they teach (columns 17-20).
 Reference year 2014.
 ISCED-1997 classification (column 13).

- 7. Includes lower secondary teachers (col. 18), primary teachers (col. 19), teachers teaching general and vocational subjects (col. 20).

 8. Columns 6-8 refer to the number of years of study for B.Ed. graduates. However, there are candidates pursuing one-year, full-time postgraduate diploma as their pre-service teacher training programme. 9. Reference year 2014/15.

10. The length of pre-service training for pre-primary teachers ranges from 2 to 3 years, depending on the type of training programme (col. 5). The duration in columns 6-8 refers to the Postgraduate Diploma in Education programme, which is the training received by most trainee teachers. This training is required for those whose bachelor's degree is not specific to education. The duration of other full-time initial teacher preparation programmes offered at the National Institute of Education varies according to the programme: Bachelor of Arts/Science (Education) – 4 years; Diploma in Education – 1 to 2 years (depending on whether general or specialisation track); and Postgraduate Diploma in Education (Physical Education) – 2 years.

11. Reference year 2015.

Note: Federal states or countries with highly decentralised school systems may have different regulations in states, provinces or regions.

*See note at the beginning of this Annex.

Sources: a) Education at a Glance 2014: OECD Indicators (OECD, 2014).

b) PISA system-level data collection in 2016.

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[Part 2/3]

Table II.6.56 Pre-service teacher training requirements in public institutions (2013)

General programmes

	8		Teaching practicum required	· · · · · · · · · · · · · · · · · · ·	
	Source	Pre-primary education	Primary education	Lower secondary education	Upper secondary education
!! 1		(9)	(10)	(11)	(12)
Australia ¹ Austria ²	a	Mandatory	Mandatory	Mandatory	Mandatory
Belgium (Fl.) ³	a	Mandatory	Mandatory	Mandatory	Mandatory
	a	Mandatory	Mandatory	Mandatory	Mandatory
Belgium (Fr.) Canada	a	Mandatory m	Mandatory m	Mandatory m	Mandatory m
Chile ⁴	a	Discretion of institutions	Discretion of institutions	Discretion of institutions	Discretion of institutions
Czech Republic	a	Discretion of institutions	Mandatory	Discretion of institutions	Discretion of institutions
Denmark	a	Mandatory	Mandatory	Mandatory	Mandatory
England	a	Mandatory	Mandatory	Mandatory	Mandatory
Estonia	a	Mandatory	Mandatory	Mandatory	Mandatory
Finland	a	Mandatory	Mandatory	Mandatory	Mandatory
France	a	Discretion of institutions	Discretion of institutions	Discretion of institutions	Discretion of institutions
Germany	a	Mandatory	Mandatory	Mandatory	Mandatory
Greece	a	Mandatory	Mandatory	Mandatory	Mandatory
Hungary ⁵	a	Mandatory	Mandatory	Mandatory	Mandatory
Iceland	a	Mandatory	Mandatory	Mandatory	Mandatory
Ireland	a	m	Mandatory	Mandatory	Mandatory
Israel	a	Mandatory	Mandatory	Mandatory	Mandatory
Italy	a	Mandatory	Mandatory	Mandatory	Mandatory
Japan ⁶	a	Mandatory	Mandatory	Mandatory	Mandatory
Korea ⁶	a	Mandatory	Mandatory	Mandatory	Mandatory
Latvia	a	m	m	m	m
Luxembourg	a	Mandatory	Mandatory	Mandatory	Mandatory
Mexico	a	Mandatory	Mandatory	Mandatory	Discretion of students
Netherlands	a	Mandatory	Mandatory	Mandatory	Mandatory
New Zealand	a	m	m	m	m
Norway	a	Mandatory	Mandatory	Mandatory	Mandatory
Poland	a	Mandatory	Mandatory	Mandatory	Mandatory
Portugal	a	Mandatory	Mandatory	Mandatory	Mandatory
Scotland	a	Mandatory	Mandatory	Mandatory	Mandatory
Slovak Republic	a	Mandatory	Mandatory	Mandatory	Mandatory
Slovenia	a	Mandatory	Mandatory	Mandatory	Mandatory
Spain	a	Mandatory	Mandatory	Mandatory	Mandatory
Sweden ⁷			Mandatory	Mandatory	Mandatory
Switzerland	a	Mandatory Mandatory	Mandatory	Mandatory	Mandatory
				Mandatory	Mandatory
Turkey	a	Mandatory	Mandatory		
United States	a	Discretion of institutions	Discretion of institutions	Discretion of institutions	Discretion of institutions
Albania	b	m	m	m	m
Algeria	Ь	m	m	m	m
Argentina	b	Mandatory	Mandatory	Mandatory	Mandatory
Brazil		Mandatory	Mandatory	Mandatory	Mandatory
B-S-J-G (China)	a b	m	m	m ′	m
Bulgaria	b	Mandatory	Mandatory	Mandatory	Mandatory
Colombia	a	m	m	m	m
Costa Rica	b	m	m	m	m
Croatia	b	Discretion of institutions	Discretion of institutions	Discretion of institutions	Discretion of institutions
Cyprus*	b	Mandatory	Mandatory	Discretion of institutions	Discretion of institutions
Dominican Republic	b	Mandatory	Mandatory	Mandatory	Mandatory
FYROM	b	Mandatory	Mandatory	Mandatory	Mandatory
Georgia	b	Discretion of institutions	Discretion of institutions	Discretion of institutions	Discretion of institutions
Hong Kong (China)8	h	a	Mandatory	Mandatory	Mandatory
Indonesia	b b	m	m	m	m
lordan	b	m	m	m	m
Kazakhstan ⁹	b	Mandatory	Mandatory	Mandatory	Mandatory
Kosovo	b	m	m	m	m
Lebanon	b	m	m	m	m
Lithuania	b	Mandatory	Mandatory	Mandatory	Mandatory
Macao (China) ⁹	b	Discretion of institutions	Discretion of institutions	Discretion of institutions	Discretion of institutions
Malaysia	b	m	m Discretion of institutions	Discretion of Institutions m	Discretion of institutions m
Malta ⁹	b				Mandatory
	D	Mandatory	Mandatory	Mandatory	
Moldova	b	m Mandatani	Mandatan	M Mandaton	M
Montenegro	b	Mandatory	Mandatory	Mandatory	Mandatory
Peru	b b	Mandatory	Mandatory	Mandatory	Mandatory
Qatar		a	a	a	a
Romania	Ь	m	m	m	m
Russia	a	Mandatory	Mandatory	Mandatory	Mandatory
Singapore ¹⁰	b	Mandatory	Mandatory	Mandatory	Mandatory
Chinese Taipei	b	Mandatory	Mandatory	Mandatory	Mandatory
Thailand .	b	Mandatorý	Mandatorý	Mandatorý	Mandatorý
Trinidad and Tobago	b	m ,	m ′	m ′	m ′
Tunisia	b	m	m	m	m
United Arab Emirates	b	a	a	a	a
Uruguay ¹¹	Ď	Mandatory	Mandatory	Mandatory	Mandatory
	b				

- 1. For all levels of education, the awarded qualifications can be a bachelor's or a graduate diploma up to the master's level.
- 2. Lower secondary refers to «academic secondary school, lower level».
 3. Includes all teachers in regular public lower secondary education (col. 19); all teachers in regular public upper secondary education (col. 20).

- 3. Includes all teachers; irrespective of the level of education they teach (columns 17-20).

 5. Reference year 2014.

 6. ISCED-1997 classification (column 13).

 7. Includes lower secondary teachers (col. 18), primary teachers (col. 19), teachers teaching general and vocational subjects (col. 20).

 8. Columns 6-8 refer to the number of years of study for B.Ed. graduates. However, there are candidates pursuing one-year, full-time postgraduate diploma as their pre-service teachers (col. 18).
- 8. Columns 6-8 refer to the number of years of study for B.Ed. graduates. However, there are candidates pursuing one-year, nun-time postgraduate unpoint as their pre-service teacher training programme.

 9. Reference year 2014/15.

 10. The length of pre-service training for pre-primary teachers ranges from 2 to 3 years, depending on the type of training programme (col. 5). The duration in columns 6-8 refers to the Postgraduate Diploma in Education programme, which is the training received by most trainee teachers. This training is required for those whose bachelor's degree is not specific to education. The duration of other full-time initial teacher preparation programmes offered at the National Institute of Education varies according to the programme: Bachelor of Arts/Science (Education) 4 years; Diploma in Education 1 to 2 years (depending on whether general or specialisation track); and Postgraduate Diploma in Education (Physical Education) 2 years Bachelor of Arts/Science (Education) – 4 years; Diploma in Education – 1 to 2 years (depending on whether general or specialisation (Physical Education) – 2 years.

 11. Reference year 2015.

 Note: Federal states or countries with highly decentralised school systems may have different regulations in states, provinces or regions.

 * See note at the beginning of this Annex.

 Sources: a) Education at a Glance 2014: OECD Indicators (OECD, 2014).

 b) PISA system-level data collection in 2016.

 StatLink **** http://dx.doi.org/10.1787/888933436513



[Part 3/3]

Table II.6.56 Pre-service teacher training requirements in public institutions (2013)

General programmes

Gei	ierai programmes		ISCED 2011 a	ttainment level at	the end of the tea	acher training	Percentage of cu	ırrent teacher sto	ck with this type	of qualification
		Source	Pre-primary education	Primary education	Lower secondary education	Upper secondary education	Pre-primary education	Primary education	Lower secondary education	Upper secondary education
	A . P 1		(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
OECD	Australia ¹	а	6	6, Other	6, Other	6, Other	86	m	m	m
- W	Austria ² Belgium (Fl.) ³	а	4 6	6	7	7	100	m	m	m 95
0	Balairan (Fr.)	a		6	6	6 7	86	77	96 70	53
	Belgium (Fr.)	a	5	5	5	,	m	m		
	Canada Chile ⁴	a	m 6	m 6	m 6	m 6	m 95	m 95	m 95	m 95
	Czech Republic	a	6	7	7	7		95 m	m 95	95 m
	Denmark	a	5	5	5	7	m m	95	95	95
	England		7	7	7	7		95 m	m	95 m
	Estonia	a	6	7	7	7	m 62	93	93	93
	Finland	a	6	7	7	7	95	94	90	96
	France	a	7	7	7	7	m	m	m	m
	Germany	a	5	7	7	7	90	100	100	100
	Greece	a	6	6	6	6	100	100	100	m
	Hungary ⁵	a	6	6	7	7	m	m	m	m
	Iceland	a	7	7	7	7	m	m	m	m
	Ireland	a	m	6	6	6	m	m	m	m
	Israel	a	6	6	6	6	83	90	94	94
	Italy	a	7	7	7	7	m	m	m	m
	Japan ⁶	a	5B, 5A	6	6	6	m	m	m	m
	Korea ⁶	a	5B, 5A	6	6	6	m	m	m	m
	Latvia	a	m	m	m	m	m	m	m	m
	Luxembourg	a	6	6	7	7	m	21	m	m
	Mexico	a	6	6	6	6	84	96	92	95
	Netherlands	a	6	6	6	7	100	100	82	82
	New Zealand	a	m	m	m	m	m	m	m	m
	Norway	a	6_	6_	6_	7	m	m	m	m
	Poland [']	a	6, 7	6, 7	6, 7	7	95	99	99	99
	Portugal	a	6	6	7	7	87	90	95	96
	Scotland	a	6	6	6	6	100	100	100	100
	Slovak Republic	a	3	7	7 7	7 7	m	m	m	m
	Slovenia	a	6		7	7	m 100	m 100	m 100	m 100
	Spain Sweden ⁷	a	6 6	6 7	7	7	93	86	86	79
	Switzerland	a	6	6	7	7	m	m	m	m
	Turkey	a	6	6	6	6	96	91	99	99
	United States	a	6	6	6	6	m	97	97	95
_										
S	Albania	b	m	m	m	m	m	m	m	m
ž.	Algeria	b	m	m	m	m	m	m	m	m
Partners	Argentina	b	4 5	4 5	4 5	4 5	m 57	m 69	m 82	m 96
٩	Brazil B-S-J-G (China)	a b	m	m m	m	m	m	m	m 02	96 m
	Bulgaria	b	6	6	6	6	99	99	99	99
	Colombia	a	m	m	m	m	m	m	m	m
	Costa Rica	b	m	m	m	m	m	m	m	m
	Croatia	b	5	5	5	5	100	100	100	100
	Cyprus*	b	6	6	6	6	100	100	100	100
	Dominican Republic	b	6	6	6	6	m	m	m	m
	FYROM .	b	6	6	6	6	67	77	77 77	97
	Georgia	b	5	6	6	6	m	73		82
	Hong Kong (China)8	b	a	6	6	6	a	m	m	m
	Indonesia	b	m	m	m	m	m	m	m	m
	Jordan	b	m	m	m	m	m	m	m	m
	Kazakhstan ⁹ Kosovo	b	6 m	6 m	6 m	6 m	61 m	87 m	87 m	90 m
	Lebanon Lithuania	b	m 6	m 6	m 6	m 6	m m	m m	m m	m m
	Macao (China) ⁹	b	6	6	6	6	m m	m m	m m	m m
	Malaysia	b	m	m	m	m	m	m	m	m
	Malta ⁹	b	4	6	6	6	85	88	88	88
	Moldova	b	m	m	m	m	m	m	m	m
	Montenegro	b	6	6	6	6	50	66	74	95
	Peru	b	5	5	5	5	m	m	m	m
	Qatar	b	m	m	m	m	m	m	m	m
	Romania	b	m	m	m	m	m	m	m	m
	Russia	a	5	6	6	6	m	m	m	m
	Singapore ¹⁰	b	5	6	6	6	86	70	94	94
	Chinese Taipei	b	6	6	6	6	m	m	m	m
	Thailand	b	5	5	5	5	m	m	m	m
	Trinidad and Tobago Tunisia	b	m m	m m	m m	m m	m m	m m	m m	m m
	United Arab Emirates	b	m a	m a	m a	m a	m a	m a	m a	m a
	Uruguay ¹¹	b	6	6	6	6	100	100	56	67
	Viet Nam	Ď	m	m	m	m	m	m	m	m

- 1. For all levels of education, the awarded qualifications can be a bachelor's or a graduate diploma up to the master's level.
 2. Lower secondary refers to academic secondary school, lower level».
 3. Includes all teachers in regular public lower secondary education (col. 19); all teachers in regular public upper secondary education (col. 20).
 4. Includes all teachers, irrespective of the level of education they teach (columns 17-20).

- 4- includes an leading, interpretation of the level of education they lead in Columns 17-20).

 5. Reference year 2014.

 6. ISCED-1997 classification (column 13).

 7. Includes lower secondary teachers (col. 18), primary teachers (col. 19), teachers teaching general and vocational subjects (col. 20).

 8. Columns 6-8 refer to the number of years of study for B.Ed. graduates. However, there are candidates pursuing one-year, full-time postgraduate diploma as their pre-service
- 8. Columns 6-8 refer to the number of years of study for B.Ed. graduates. However, there are candidates pursuing one-year, full-time postgraduate diploma as their pre-service teacher training programme.

 9. Reference year 2014/15.

 10. The length of pre-service training for pre-primary teachers ranges from 2 to 3 years, depending on the type of training programme (col. 5). The duration in columns 6-8 refers to the Postgraduate Diploma in Education programme, which is the training received by most trainee teachers. This training is required for those whose bachelor's degree is not specific to education. The duration of other full-time initial teacher preparation programmes offered at the National Institute of Education varies according to the programme:

 Bachelor of Arts/Science (Education) 4 years; Diploma in Education 1 to 2 years (depending on whether general or specialisation track); and Postgraduate Diploma in Education (Physical Education) 2 years.
- 11. Reference year 2015.

 Note: Federal states or countries with highly decentralised school systems may have different regulations in states, provinces or regions.



Table II.6.57 Requirements for entry into the teaching profession and for professional development in public institutions (2013)

General programmes

Australia	Ger	neral programmes																					
Australia 2				r	equired	l to ente	er	ir ed	ı additi ucatior	on to th i diplon	ne na,	in add diplom	ition to a, requi	the edu ired to k	ication become	requir	is a con ement i	npulsor for teac	y hers to	requir	s a con ement	npulsor for pro	y motion
Australia a No No No No No No No			urce	Pre-primary education	Primary education	Lower secondary education	Upper secondary education	Pre-primary education	Primary education	Lower secondary education	Upper secondary education	Pre-primary education	Primary education	Lower secondary education	Upper secondary education	Pre-primary education	Primary education	Lower secondary education	Upper secondary education	Pre-primary education	Primary education	Lower secondary education	Upper secondary education
Material				(1)		(3)	(4)	(5)			(8)	(9)				(13)				(17)		(19)	(20)
Ecologium (Fr.)	9																						
Ecologium (Fr.)	O.E	Belgium (Fl.)																No					
Chief Chie																							
Demark		Chile																					
Estohani			a	a	a	a	a	a	a	a	a	a		a	a			Yes					
Finland a a a a a a a a a																		Yes					
France		Estonia	a		a	a	a	a	a	a		a		a	a	Yes	Yes	Yes	Yes	No	No	No	No
Greece a bes Ves Ves Ves Ves Ves Ves Ves Ves Ves V																							
Hungany		Germany								a	a	a			a	m	Yes	Yes	Yes	m	No	No	
Internal																							
Instance																							
Italy		Ireland ³	a, b	m	a	a	a	No	Yes	Yes	Yes	m	No	No	No	m	No	No	No	m	No	No	No
Japain																							
Latavia		Japan	a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	a	a	a	a	Yes	Yes	Yes	Yes	No	No	No	No
Lucembourg			а																				
Netherlands			а																				
New Zealand		Mexico										a			a								
Norway																							
Portugal		Norway		a	a	a	a	a	a	a	a	a	a	a	a	No	No	No	No	No	No	No	
Scotland																							
Slovenia		Scotland																		No		No	
Spain																							
Switzerland																							
Turkey																							
Albania																							
Ageria																							
B-S-J-G (China) b m m m m m m m m m	Ş	Albania	Ь	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
B-S-J-G (China) b m m m m m m m m m	,uer		b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	
B-S-J-G (China) b m m m m m m m m m	Part																						
Colombia		B-S-J-G (China)	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
Costa Rica																							
Cyprus*		Costa Rica	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
Dominican Republic																		Yes					
Ceorgia		Dominican Republic	b							No		No		No		No		No	No	Yes		Yes	
Hong Kong (China)																							
Indonesia		Hong Kong (China)																					
Kazakhstan ⁴		Indonesia																					
Kosovo																							
Lithuania		Kosovo	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
Macao (China) ⁴ b No																							
Maltá		Macao (China)4	b																				No
Moldova																							
Peru																							
Qatar b No Yes Yes Yes No No <t< td=""><th></th><th>Montenegro</th><td>b</td><td>No</td><td>No</td><td>No</td><td>No</td><td>No</td><td>No</td><td>No</td><td>No</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td><td>Yes</td></t<>		Montenegro	b	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Romania																							
Singapore b		Romania	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
Chinese Taipei																							
Trinidad and Tobago b m m m m m m m m m		Chinese Taipei	b	Yes	Yes	Yes	Yes	No	No	No	No	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No
Tunisia																							
United Arab Emirates b Yes Yes Yes No No<		Tunisia	b				m			m													
		United Arab Emirates	b	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
																							No m

^{1.} Lower secondary refers to «academic secondary school, lower level».
2. Reference year 2014.
3. For columns 5-8, source «b» is used; source «a» is used for all other columns.
4. Reference year 2014/15.
5. Reference year 2015.
* See note at the beginning of this Annex.

Sources: a) Education at a Glance 2014: OECD Indicators (OECD, 2014).
b) PISA system-level data collection in 2016.

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Table II.6.58 Cumulative expenditure by educational institutions per student aged 6 to 15 (2013)

In equivalent USD converted using PPPs for GDP, by level of education, based on full-time equivalents

			Avera; for	ge theore students (in y	s aged 6	ıration -15	Annual ex		on educa nt for all s		titutions	Cumulat	ive expen		student o of studies dollars)	ver the th	eoretical
		Source	Pre-primary education	Primary education	Lower secondary	Upper secondary education	Pre-primary education (for children 3 years and older)	Primary education	Lower secondary education	Upper secondary education	All secondary education	Pre-Primary education	Primary education	Lower secondary	Upper secondary education	All secondary education	Total 6 to 15 year-olds
_	!!		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
OECD	Australia Austria	a	0	7	3	2	13 171 8 737	8 289 10 780	11 431 14 831	10 203 15 255	10 932 15 024	0	58 024 43 120	34 292 59 325	30 510	32 797 90 141	92 316 132 955
Ě	Relgium1	a	0	6	2	2	7 576	9 957	12 267	13 020	12 763	0	59 741	24 535	26 040	51 052	110 316
_	Canada ^{1, 2, 3}	a	0	6	3	1	m	9 130	x(6)	12 086	m	m	82 168	x(11)	12 086	m	94 254
	Chile Czech Republic	a	0	5	2	2	6 408 4 655	4 021 4 730	4 099 8 061	4 141 7 682	4 127 7 861	0	24 128 23 652	8 197 32 242	8 282 7 682	16 507 39 303	40 607 63 576
	Denmark ⁴	a	1	6	3	0	m	11 355	11 906	10 165	10 933	m	68 132	35 719	0	32 798	103 852
	Estonia ⁴	а	1	6	3	0	m	7 138	7 009	5 909	6 417	m	42 829	21 028	0	19 252	63 858
	Finland ¹ France	a	0	5	3	0	10 477 7 507	8 519 7 201	13 312 9 947	8 786 13 643	10 237 11 482	10 477	51 114 36 003	39 937 39 789	0 13 643	30 712 57 410	101 527 89 435
	Germany	a	0	4	6	0	9 167	8 103	9 967	13 093	11 106	0	32 414	59 800	0	66 639	92 214
	Greece	a	0	6	3	1	m 5 074	5 435	3 994	m 4 439	4 236	5 074	m 21 739	m 15 977	m 4 439	21 182	m 47 229
	Hungary Iceland	a	0	7	3	0	10 956	10 569	11 276 10 773	7 743	9 041	0	73 983	33 828	0	27 124	107 811
	Ireland ⁵	а	0	6	3	1	6 532	8 002	10 773	10 840	10 804	0	48 011	32 320	10 840	43 215	91 171
	Israel ¹ Italy	a	0	5	3	1 2	4 302 6 233	6 941 8 392	x(9) 8 797	5 831 9 174	5 831 9 023	0	41 647 41 961	x(14) 26 392	5 831 18 348	23 325 45 116	64 973 86 701
	Japan ¹	a	Ö	6	3	ī	6 247	8 748	10 084	10 459	10 273	0	52 489	30 252	10 459	41 091	93 200
	Korea Latvia	a	0	6	3	1	6 227 4 854	7 957 5 974	7 324 6 016	9 801 6 005	8 592 6 010	0	47 745 35 847	21 971 18 047	9 801 6 005	34 366 24 039	79 517 59 899
	Luxembourg ³	a	0	6	3	1	19 233	17 959	20 076	19 473	19 762	0	107 757	60 229	19 473	79 049	187 459
	Mexico	а	0	6	3	1	m	2 717	2 473	4 126	3 065	m	16 303	7 420	4 126	12 258	27 848
	Netherlands New Zealand	a	0	6	3	0	8 305 10 252	8 371 7 354	12 334 9 191	12 200 11 328	12 269 10 198	0	50 228 44 125	37 002 36 764	12 200 0	49 076 40 791	99 430 80 890
	Norway ¹	a	0	7	3	0	14 704	13 274	14 103	16 153	15 283	0	92 917	42 310	0	45 849	135 227
	Poland ¹	a	1	6	3	0	5 552 6 604	6 919 7 258	6 900 9 667	6 178	6 505	5 552	41 514 43 545	20 701 29 002	10 503	19 516 40 295	67 767 83 050
	Portugal ¹ Slovak Republic ³	a	0	4	5	1	4 996	5 942	5 755	5 839	5 795	0	23 767	28 775	5 839	34 769	58 382
	Slovenia	а	0	6	3	1	8 101	9 121	10 085	7 872	8 739	0	54 723 41 734	30 254	7 872 0	34 955	92 850
	Spain ¹ Sweden	a	0	6	3	0	6 021 12 833	6 956 10 664	8 303	8 729 11 389	8 520 11 354	12 833	63 983	33 213 33 917	0	34 079 34 062	74 947 110 733
	Switzerland ^{1, 5}	a	Ö	6	3	1	5 479	15 930	19 698	18 479	18 994	0	95 580	59 093	18 479	75 977	173 151
	Turkey United Kingdom	a	0	6	4	2	3 172 8 727	2 894 10 669	3 337 13 092	3 914 11 627	3 590 12 200	0	11 575 64 016	13 350 39 277	7 827 11 627	21 538 48 801	32 752 114 920
	United States	a	0	6	3	1	9 986	10 959	11 947	13 587	12 740	0	65 752	35 840	13 587	50 959	115 180
ers	Albania Algeria ^{5, 6}	b	m m	m m	m m	m m	m a	m x(9)	m x(9)	m x(9)	2 744	m m	m m	m m	m m	m m	m m
Partners	Argentina	b	0	6	3	1	3 411	3 701	6 802	6 335	6 604	0	22 207	20 406	6 335	26 416	48 947
Pa	Brazil ⁵ B-S-J-G (China)	a	0	5 m	4 m	1 m	m	3 826	3 802	3 852	3 822	0	19 129	15 210	3 852	19 112	38 190
	Bulgaria ²	b	m 1	m 4	m 4	m 1	m 4 082	2 529	3 144	3 205	3 179	4 082	10 117	12 576	3 205	15 893	29 980
	Colombia	a	0	5	4	1	m	2 074	2 728	3 117	2 835	m	10 368	10 910	3 117	14 177	24 395
	Costa Rica ⁷ Croatia ^{5, 8}	b	0	6	3	1	3 553 5 194	4 143 5 005	5 249 x(6)	5 924 5 491	5 456 m	5 194	24 860 x(12)	15 747 40 037	5 924 5 491	21 822 m	46 531 50 722
	Cyprus*2, 5	b	Ö	6	3	i	6 643	9 231	14 048	14 603	14 337	0	55 386	42 144	14 603	57 347	112 133
	Dominican Republic ⁵ FYROM	b	0	5	3	1	2 790 m	2 495 m	2 388 m	2 128 m	2 226 m	0 m	14 970 m	7 165 m	2 128 m	8 904 m	24 264 m
	Georgia ⁶	b	0	6	3	1	m	x(9)	x(9)	x(9)	1 170	m	x(15)	x(15)	x(15)	x(15)	11 704
	Hong Kong (China)	b	0	6	3	1	m	m	m	m	m	m	m	m	m	m	m
	Indonesia Jordan	b	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m
	Kazakhstan ^{9, 10}	b	0	4	5	1	1 890	792	x(9)	x(9)	3 253	0	3 170	x(14)	x(14)	19 519	22 689
	Kosovo Lebanon	b	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m
	Lithuania ¹¹	a	1	4	5	0	5 093	5 079	4 596	5 345	4 826	5 093	20 316	22 980	0	22 980	48 389
	Macao (China) ⁹ Malaysia	b	0 m	6 m	3 m	m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m	m m
	Maltá	Ь	0	5	3	2	7 258	9 680	13 662	11 697	12 535	0	48 402	40 985	23 394	62 673	112 780
	Moldova	b	m	m	m	m	m	m	2 F70	m	m	m	m	m 23 129	m	m	m
	Montenegro ⁵ Peru ⁹	b	0	5 6	3	1	2 632 1 634	1 756	2 570 x(9)	2 657 x(9)	2 395	0	x(12) 10 533	x(14)	2 657 x(14)	9 580	25 786 20 114
	Qatar	b	0	6	3	1	m	m	m	m	m	m	m	m	m	m	m
	Romania Russia ^{1, 4}	b a	m 1	m 4	m 5	m 0	m 5 588	m x(8)	m x(8)	5 100	5 100	5 588	x(14)	x(14)	m 0	45 903	m 51 492
	Singapore ⁵	b	0	6	2	2	a	11 644	x(9)	x(9)	15 187	a	69 865	x(14)	x(14)	60 747	130 611
	Chinese Taipei Thailand ¹²	b	0	6	3	1	3 835 x(9)	4 652 x(9)	x(6) x(9)	4 140 x(9)	2 722	x(15)	x(12) x(15)	41 869 x(15)	4 140 x(15)	x(15)	46 009 27 220
	Trinidad and Tobago	b	m	m	m	m	x(9)	(9) m	(9) m	(9) m	2 / 2 2 m	x(13)	x(13)	X(13)	X(13)	X(13)	27 220 m
	Tunisia	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
	United Arab Emirates Uruguay ^{5, 9, 12}	b	0	5 6	3	1	m x(6)	3 068	m x(9)	m x(9)	3 351	x(11)	18 408	x(14)	x(14)	13 403	31 811
_	Viet Nam	b	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m

- 1. Includes data from another category: Belgium (colums 8, 9), Canada (column 6), Finland (columns 8, 9), Israel (column 8), Japan (columns 8, 9), Norway (columns 8, 9), Poland (column 8, Portugal (columns 8, 9), Russia (columns 8, 9), Spain (columns 8, 9), Switzerland (columns 8, 9).

 2. Reference year 2012.

 3. Public institutions only for tertiary level.

 4. Total expenditure data excludes pre-primary education.

- Total expenditure data excludes pre-primary education.
 Public institutions only.
 Data reported for «all secondary education» includes primary education in public and private independent institutions (there are no government-dependent private institutions in Georgia). Enrolment data for public vocational programmes (ISCED 3) are estimated based on weighted data for academic years 2013/14 and 2014/15 (private institutions do not receive public funding for similar programmes).
 Combined public and government dependent private institutions.
 Reference year 2015.
 Reference year 2014.
 Combined public and independent private institutions.
 Includes ISCED 0.1.
 Total expenditure data includes pre-primary education.

- 11. Includes ISCEL 0.1.

 12. Total expenditure data includes pre-primary education.

 * See note at the beginning of this Annex.

 Sources: a) Education at a Glance 2016: OECD Indicators (OECD, 2016).

 b) PISA system-level data collection in 2016.

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Table II.6.59 Per capita GDP at the system level (2013, 2014)

		Per capita GDP, in equivaler	nt USD converted using PPPs
	Source	2013	2014
Australia	a, c	47 245	45 925
Austria	a, c	47 571	47 682
Belgium	a, c	43 142	43 435
Canada	a, c	42 460	45 066
Chile	a, c	21 345	22 071
Czech Republic	a, c	30 038	31 186
Denmark	a, c	45 781	45 537
Estonia	a, c	27 090	28 140
Finland	a, c	41 044	40 676 39 328
France Germany	a, c	39 428 44 245	46 401
Greece	a, c a, c	26 689	26 851
Hungary	a, c	23 999	25 069
Iceland	a, c	42 968	43 993
Ireland	a, c	47 674	49 393
Israel	a, c	33 696	33 703
Italy	a, c	36 036	35 463
Japan	a, c	36 353	36 619
Korea	a, c	32 664	33 395
Latvia	a, c	22 434	23 548
Luxembourg	a, c	97 057	98 460
Mexico	a, c	17 141	17 315
Netherlands	a, c	48 025	48 253
New Zealand	a, c	36 381	37 679
Norway	a, c	52 920	65 614
Poland	a, c	24 479	25 262
Portugal	a, c	27 850	28 760
Slovak Republic	a, c	27 427	28 327
Slovenia	a, c	29 114	30 403
Spain	a, c	32 767	33 629
Sweden	a, c	45 277	45 297
Switzerland	a, c	59 723	59 540 19 788
Turkey United Kingdom	a, c	19 193 38 853	40 233
United States	a, c a, c	51 764	54 629
Albania	С	10 410	11 108
Algeria	b	13 847	14 244
Argentina Brazil	b	22 407 15 944	21 795 15 893
B-S-J-G (China)	a, c	m	m
Bulgaria ¹	b	16 617	17 260
Colombia	a, c	12 771	13 357
Costa Rica	b	14 442	14 885
Croatia ²	b	20 584	20 939
Cyprus*3	b	30 656	29 790
Dominican Republic	b	12 950	13 964
FYROM	Ь	12 752	13 523
Georgia	С	6 526	6 666
Hong Kong (China)	b	53 149	55 195
Indonesia	С	9 995	10 517
Jordan	С	11 782	12 050
Kazakhstan	b	23 045	23 429
Kosovo	С	8 899	9 114
Lebanon	С	17 074	17 462
Lithuania	b	26 384	27 581
Macao (China)	Ь	132 007	127 051
Malaysia	C	24 194	25 639
Malta Moldova	b	31 102 4 692	31 661 4 983
Montenegro	c b	14 627	14 656
Peru Peru	b	11 682	12 043
Qatar	b	144 369	138 050
Romania	C	19 577	20 348
Russia	a, c	22 548	22 990
Singapore	b	79 996	82 515
Chinese Taipei	b	21 916	22 648
Thailand	b	16 595	16 804
Trinidad and Tobago	C	31 397	31 967
Tunisia	C	11 086	11 436
		64 111	67 674
United Arab Emirates	C	07 111	
United Arab Emirates Uruguay	b	19 955	20 881

^{1.} Per capita GDP in 2012: 16 146.
2. Estimated per capita GDP in 2015: 21 581 (International Monetary Fund, World Economic Outlook Database, April 2016).
3. Per capita GDP in 2012: 31 920 (World Bank, International Comparison Program database).
Note: For OECD countries, Brazil, Colombia and Russia source «a» is used for 2013 and source «c» for 2014.

* See note at the beginning of this Annex.

Sources: a) Education at a Clance 2016: OECD Indicators (OECD, 2016).
b) PISA system-level data collection in 2016.
c) World Bank, International Comparison Program database.

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ANNEX B2

RESULTS FOR REGIONS WITHIN COUNTRIES

[Part 1/1]

Table B2.II.4 Science-specific resources at school

Results based on school principals' reports

	Percen	tage of st	tudents i	n schools	where th	ne princij	oal report	ted that t	he follov	ing state	ements ar	e true fo	r the sch	ool's scie	nce depa	artment
	to o depart our so <school departr well-eo</school 	pared ther ments, hool's science nent> is juipped	some fundin share g impro of our scie teac	ver have e extra g, a big oes into vement <school nce> ching</school 	scier teache amon best-ed staff m	ers are ig our lucated embers	well-eq labor	schools, ave a juipped atory	The m for had active in <se science in good</se 	nds-on vities chool ce> is I shape	We have labor materi all cour regularl	atory al that ses can ly use it	labor staff the support scien teac	at helps <school nce> hing</school 	spend mon up-to <sci scie equip</sci 	school s extra ey on o-date hool nce> oment
211	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Belgium Flemish community French community	85.7	(2.5)	33.5	(3.8)	71.8	(3.5)	79.2	(3.1)	90.8	(2.2)	87.1	(2.4)	8.4	(2.3)	77.1	(3.3)
French community	79.3	(4.2)	31.2	(4.9)	52.8	(5.8)	71.1	(5.1)	92.1	(2.7)	61.7	(5.6)	16.6	(4.0)	67.9	(5.4)
German-speaking community	92.9	(0.1)	34.1	(0.5)	62.4	(0.5)	83.8	(0.3)	92.9	(0.1)	73.4	(0.4)	0.0	(-1.0) C	75.1	(0.4)
Canada	32.3	(011)	3	(0.5)	02.1	(0.5)	03.0	(0.5)	32.3	(0.1)	, , , , , ,	(0.1)	0.0		, 5.1	(0.1)
Alberta	89.6	(3.4)	30.6	(5.5)	79.7	(4.6)	88.8	(3.5)	88.3	(4.0)	93.5	(1.9)	60.9	(5.3)	57.0	(6.0)
British Columbia	89.6	(4.9)	22.0	(6.4)	65.6	(5.8)	79.3	(5.6)	91.2	(3.7)	77.8	(6.4)	32.6	(6.1)	48.1	(6.0)
Manitoba	96.3	(1.7)	37.0	(2.8)	71.7	(2.9)	85.1	(2.9)	96.4	(1.1)	92.9	(2.6)	46.5	(2.7)	71.9	(3.3)
New Brunswick	85.5	(2.6)	39.4	(2.3)	77.4	(2.6)	83.7	(2.5)	81.2	(2.7)	77.5	(2.8)	12.5	(0.6)	48.4	(2.5)
Newfoundland and Labrador	97.1	(1.6)	36.5	(1.8)	86.3	(1.9)	95.6	(1.6)	94.3	(3.4)	93.4	(1.1)	8.4	(1.5)	70.1	(3.0)
Nova Scotia	86.4	(5.2)	14.3	(2.5)	0.08	(4.2)	86.3	(3.7)	89.8	(3.8)	71.2	(5.5)	5.5	(2.5)	56.8	(5.6)
Ontario	93.7	(2.6)	35.9	(5.1)	79.9	(4.2)	88.8	(3.6)	94.8	(2.6)	93.8	(2.3)	13.6	(3.8)	44.0	(5.2)
Prince Edward Island	96.2	(3.0)	9.0	(2.2)	62.5	(3.1)	79.3	(3.6)	80.5	(3.0)	83.4	(1.2)	10.9	(4.7)	49.4	(2.8)
Quebec	96.1	(2.5)	41.8	(6.6)	56.1	(6.2)	90.2	(4.1)	97.7	(1.4)	88.7	(3.9)	95.4	(2.7)	62.5	(5.4)
Saskatchewan	91.8	(1.9)	22.4	(3.8)	87.1	(2.3)	91.8	(1.5)	85.9	(3.1)	92.3	(1.6)	17.5	(2.6)	47.8	(4.2)
Italy Bolzano	l m	m	34.5	(0.4)	64.2	(0.4)	80.8	(0.3)	88.2	(0.3)	92.2	(0.2)	65.7	(0.4)	73.2	(0.4)
Campania	m m	m m	79.0	(5.3)	64.4	(7.7)	78.7	(5.6)	79.7	(5.2)	54.0	(6.9)	70.9	(6.5)	60.2	(6.9)
Lombardia	m	m	64.4	(6.0)	67.3	(6.4)	73.7	(7.0)	81.3	(5.5)	69.3	(7.3)	66.8	(6.8)	60.8	(6.3)
Trento	m	m	50.5	(1.6)	44.7	(1.0)	70.4	(1.6)	92.6	(1.7)	81.8	(1.5)	81.1	(1.8)	64.0	(1.4)
Portugal			30.5	(1.0)	11.7	(1.0)	70.1	(1.0)	32.0	(1.7)	01.0	(1.5)	01.1	(1.0)	01.0	(11)
Região Autónoma dos Açores	84.4	(0.3)	63.3	(0.5)	37.7	(0.5)	59.9	(0.5)	88.2	(0.2)	63.8	(0.6)	58.3	(0.5)	44.3	(0.7)
Spain														(0.0)		
Andalusia •	60.8	(6.2)	39.7	(7.2)	77.2	(5.1)	61.6	(6.4)	68.6	(5.7)	47.8	(6.3)	3.1	(2.5)	40.6	(5.2)
Aragon*	78.6	(5.7)	39.4	(6.5)	71.1	(7.1)	70.3	(6.9)	85.9	(5.1)	63.4	(7.4)	4.3	(3.1)	38.7	(7.0)
Asturias*	80.1	(4.8)	43.6	(7.4)	81.5	(5.2)	79.6	(5.9)	86.7	(4.9)	66.5	(6.7)	4.3	(3.0)	49.2	(6.4)
Balearic Islands*	80.4	(3.4)	35.4	(6.0)	87.5	(5.2)	63.1	(5.5)	86.1	(4.3)	63.7	(5.4)	15.8	(5.2)	50.3	(7.3)
Basque Country •	68.1	(5.2)	24.4	(5.2)	44.1	(4.9)	68.8	(5.4)	74.1	(4.6)	76.7	(4.2)	9.8	(3.7)	30.2	(5.7)
Canary Islands*	70.9	(6.3)	36.1	(7.1)	66.0	(6.8)	70.8	(6.8)	68.6	(7.1)	40.6	(7.4)	5.9	(3.1)	33.9	(6.5)
Cantabria •	82.3	(4.3)	41.9	(6.0)	80.5	(4.8)	73.6	(4.9)	86.0	(4.2)	64.7	(5.2)	5.3	(3.1)	47.2	(6.6)
Castile and Leon*	75.8	(5.8)	43.3	(8.0)	73.1	(5.6)	64.3	(6.2)	91.6	(4.0)	56.4	(6.8)	1.9	(2.0)	25.2	(5.9)
Castile-La Mancha*	76.8	(6.7)	46.6	(5.4)	67.1	(6.8)	62.5	(6.5)	66.4	(6.5)	41.1	(7.0)	0.0	С	31.1	(6.7)
Catalonia •	86.1	(3.5)	43.8	(6.5)	78.5	(5.7)	76.8	(5.6)	85.1	(4.3)	73.5	(6.3)	9.3	(4.0)	62.2	(7.2)
Comunidad Valenciana*	83.2	(4.2)	34.9	(6.4)	78.6	(6.5)	71.0	(6.4)	85.6	(3.6)	58.1	(7.4)	4.3	(3.0)	59.3	(7.5)
Extremadura •	73.4	(6.5)	29.7	(6.3)	74.9	(6.6)	64.0	(7.1)	74.0	(6.1)	45.2	(6.8)	2.0	(2.0)	30.8	(7.3)
Galicia• La Rioja•	76.9 91.3	(5.2) (0.1)	30.4 49.1	(6.6) (0.4)	87.2 74.6	(5.3) (0.3)	65.2 81.3	(6.5) (0.2)	80.2 88.8	(4.6) (0.2)	53.2 68.7	(7.1) (0.3)	7.9 10.0	(3.9) (0.3)	39.2 30.7	(6.4)
Madrid•	88.7	(4.9)	27.7	(6.5)	71.9	(6.8)	82.1	(6.2)	82.0	(6.0)	63.3	(8.1)	11.0	(4.0)	47.9	(7.7)
Murcia •	74.6	(5.3)	54.5	(6.6)	79.4	(5.6)	63.1	(6.8)	74.4	(5.8)	42.6	(7.0)	5.7	(3.2)	41.2	(6.2)
Navarre*	79.4	(5.4)	13.1	(4.0)	44.1	(5.5)	66.6	(5.7)	83.2	(4.5)	56.0	(6.1)	3.6	(2.6)	27.7	(4.8)
United Kingdom	7 7.1	(3.1)	13.1	(-1.0)		(3.3)	00.0	(3.7)	03.2	(1.5)	30.0	(0.1)	3.0	(2.0)	27.7	(1.0)
England	85.7	(3.2)	34.5	(4.3)	69.1	(3.8)	79.0	(3.6)	84.6	(3.4)	92.0	(2.1)	91.4	(2.6)	57.1	(4.1)
Northern Ireland	95.6	(1.9)	29.6	(5.5)	74.7	(5.0)	79.0	(4.6)	95.8	(2.8)	91.5	(3.0)	88.0	(3.8)	58.4	(5.5)
Scotland	85.3	(3.7)	42.8	(6.1)	58.5	(5.3)	77.6	(5.2)	86.6	(3.8)	88.0	(3.7)	82.9	(3.8)	62.4	(6.1)
Wales	82.7	(3.2)	41.8	(3.9)	68.2	(3.7)	67.8	(4.2)	79.4	(3.6)	83.5	(3.5)	90.3	(2.8)	40.1	(3.9)
United States																
Massachusetts*	92.4	(2.1)	49.3	(6.6)	81.3	(6.2)	81.1	(4.0)	93.6	(3.3)	90.0	(4.2)	9.6	(3.1)	58.6	(6.3)
North Carolina®	85.7	(5.4)	40.7	(7.5)	80.0	(5.9)	69.0	(7.0)	83.8	(4.8)	62.5	(6.8)	16.5	(5.3)	48.6	(6.5)
Puerto Rico*	35.5	(6.5)	64.0	(7.2)	96.0	(3.0)	25.1	(4.9)	51.3	(7.0)	26.4	(5.9)	22.7	(5.2)	25.8	(5.9)
Colombia																
Rogotá	77.5	(7.7)	60.2	(7.5)	90.1	(5.2)	62.5	(9.8)	80.1	(6.8)	59.6	(9.1)	22.7	(6.0)	39.7	(6.6)
Cali	50.6	(7.0)	60.9	(8.5)	95.2	(3.2)	43.8	(6.8)	56.7	(7.3)	40.6	(7.7)	10.5	(4.1)	45.6	(7.2)
Cali Manizales	78.3	(4.1)	69.3	(6.4)	95.3	(2.4)	69.5	(4.3)	74.8	(3.7)	53.2	(4.7)	6.1	(2.8)	65.1	(4.7)
Medellín	61.5	(6.0)	78.6	(7.0)	89.5	(4.5)	56.4	(6.8)	64.4	(6.6)	40.1	(7.0)	3.1	(2.8)	59.7	(8.3)
United Arab Emirates	,	(5.0)	. 5.0	(0)	23.3	()		(5.0)		(5.0)		(0)	5	(=10)		(0.0)
Abu Dhabi*	92.8	(3.4)	82.7	(3.5)	87.2	(3.5)	91.3	(2.9)	94.0	(2.5)	90.0	(3.2)	83.4	(3.8)	79.9	(3.9)
Ajman	90.4	(8.0)	85.5	(2.3)	84.2	(7.5)	100.0	C	85.9	(6.4)	68.9	(7.6)	68.0	(9.6)	66.2	(6.2)
Dubai*	98.0	(0.0)	65.5	(0.2)	87.3	(0.1)	90.9	(0.1)	95.1	(0.0)	93.1	(0.1)	80.7	(0.2)	80.9	(0.2)
Fujairah	100.0	C	78.8	(2.8)	92.5	(2.3)	97.9	(2.1)	96.0	(2.2)	95.3	(0.3)	60.8	(4.3)	85.4	(5.0)
Ras Al Khaimah	93.9	(5.3)	79.2	(7.8)	82.6	(6.8)	85.1	(7.3)	86.0	(7.6)	85.1	(6.6)	55.6	(8.7)	87.2	(7.1)
Sharjah	94.0	(4.9)	81.2	(10.9)	90.5	(3.4)	87.3	(8.0)	94.0	(4.9)	79.5	(7.2)	77.7	(7.2)	77.4	(10.1)
Umm Al Quwain	100.0	C	79.4	(0.6)	73.1	(0.6)	100.0	C	100.0	C	97.6	(0.4)	81.8	(0.3)	84.3	(0.6)

* PISA adjudicated region.

Notes: Results for the province of Quebec in this table should be treated with caution due to a possible non-response bias.

For Massachusetts and North Carolina, the desired target population covers 15-year-old students in grade 7 or above in public schools only (see Annex A2). Puerto Rico is an unincorporated territory of the United States. As such, PISA results for the United States do not include Puerto Rico.

See Table II.2.5 for national data.

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Table B2.II.5 Science teaching staff

		In schools attended by 15-year-old		
	Fully co by the approp	ertified riate authority	With a university deg and a majo	ree (ISCED Level 5A) r in science
	%	S.E.	%	S.E.
Belgium				
Flemish community*	85.3	(2.4)	45.7	(1.8)
French community	83.5	(3.4)	50.2	(2.3)
German-speaking community	80.6	(0.5)	56.6	(0.2)
Canada				
Alberta	97.5	(1.5)	75.5	(3.9)
British Columbia	95.6	(2.2)	86.6	(3.8)
Manitoba	99.3	(0.1)	84.9	(2.4)
New Brunswick	91.3	(1.0)	73.1	(2.2)
Newfoundland and Labrador	100.0	C	91.0	(2.3)
Nova Scotia	95.2	(1.9)	78.4	(3.3)
Ontario	99.1	(0.2)	79.1	(3.5)
Prince Edward Island	100.0	С	87.2	(2.0)
Quebec	93.1	(2.9)	87.8	(3.6)
Saskatchewan	94.3	(1.8)	64.2	(3.5)
Italy		'		
Bolzano	70.3	(0.3)	14.2	(0.1)
Campania	93.8	(2.7)	2.1	(1.1)
Lombardia	87.2	(2.9)	10.5	(2.6)
Trento	68.8	(1.7)	30.6	(1.6)
	00.0	(1.7)	50.6	(1.0)
Portugal	02.2	(0.2)	07.2	(0.4)
Região Autónoma dos Açores	93.2	(0.2)	87.3	(0.4)
Spain				
Andalusia•	94.3	(3.1)	84.5	(5.0)
Aragon*	94.4	(3.1)	92.4	(3.1)
Asturias*	88.0	(3.7)	89.3	(3.8)
Balearic Islands*	92.8	(3.2)	33.1	(5.6)
Basque Country*	87.1	(3.9)	78.0	(3.6)
Canary Islands*	93.2	(3.3)	81.0	(4.8)
Cantabria*	98.7	(0.7)	85.9	(3.9)
Castile and Leon*	92.3	(3.9)	90.2	(3.4)
Castile-La Mancha*	97.6	(2.0)	87.9	(4.5)
Catalonia •	95.8	(2.6)	42.5	(6.7)
Comunidad Valenciana*	97.5	(2.0)	79.6	(5.1)
Extremadura*	95.2	(3.0)	93.7	(2.2)
Galicia*	89.7	(3.2)	78.7	(4.8)
La Rioja•	98.6	(0.1)	96.6	(0.1)
Madrid*	91.7	(4.0)	91.3	(2.1)
Murcia*	95.4	(2.8)	83.7	(3.9)
Navarre*	97.1	(0.7)	86.6	(2.7)
United Kingdom		· ·		
England	95.4	(1.3)	93.2	(1.9)
Northern Ireland	97.2	(1.9)	96.9	(2.0)
Scotland	96.9	(1.8)	89.3	(3.6)
Wales	98.0	(1.1)	96.9	(1.4)
United States	70.0	(1.1)	50.5	(1.4)
	07.4	(1.2)	07.2	(4.5)
Massachusetts•	97.4	(1.2)	97.3	(1.5)
North Carolina•	96.9	(1.0)	96.7	(2.0)
Puerto Rico*	88.6	(4.3)	82.7	(4.2)
Colombia				
Bogotá	6.6	(3.0)	83.8	(3.7)
Cali			94.4	
	23.8	(8.1)		(2.9)
Manizales	11.1	(1.8)	83.6	(4.1)
Medellín	5.9	(2.7)	78.8	(5.2)
United Arab Emirates				
Abu Dhabi*	82.0	(2.7)	86.3	(3.8)
Ajman	79.3	(8.1)	89.9	(1.0)
Dubai•	88.6	(0.1)	94.2	(0.0)
Fujairah	64.3	(5.2)	95.1	(0.8)
Ras Al Khaimah	59.0	(7.2)	99.5	(0.0)
	80.4	(6.5)	93.6	(5.0)
Sharjah				

[•] PISA adjudicated region.

Notes: Results for the province of Quebec in this table should be treated with caution due to a possible non-response bias.

For Massachusetts and North Carolina, the desired target population covers 15-year-old students in grade 7 or above in public schools only (see Annex A2). Puerto Rico is an unincorporated territory of the United States. As such, PISA results for the United States do not include Puerto Rico.

See Table II.2.8 for national data.

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[Part 1/3]

Table B2.II.10 Enquiry-based science teaching and learning practices

Results based on students' reports

						Perce	ntage	of stu	dents	who r	eporte	ed tha	t the	follow	ing thi	ings ha	appen	in the	ir scie	nce le	essons				
			Stud	ents a				nities		St					he lak		ry				are re				
		In	all		nost	their In s			er or	In	all		nost		erime ome		er or	In			scien	Ė	ome	Nev	er or
		less	S.E.	less %	S.E.	less %	ons S.E.	ev %	er' S.E.	less	S.E.	less	S.E.	less	S.E.	ev %	er' S.E.	less %	S.E.	less	S.E.	less	S.E.	%	ver' S.E.
۵	Belgium	70	J.L.	/0	J.L.	/0	J.L.	70	J.L.	/0	J.L.	/0	J.L.	/0	J.L.	/0	J.L.	/0	J.L.	/0	J.L.	/0	J.L.	76	J.L.
OECD	Flemish community*	26.5	(0.9)	37.1	(0.7)	25.6	(0.7)	10.8	(0.6)	3.8	(0.3)	8.0	(0.5)	47.3	(1.3)	40.9	(1.4)	3.7	(0.3)	9.2	(0.5)	31.7	(0.9)	55.3	(1.1
٥	French community	39.2	(1.2)	28.5	(0.8)	22.7	(1.0)	9.6	(0.7)	4.2	(0.5)	7.5	(0.6)	31.0	(1.3)	57.3	(1.5)	8.6	(0.8)	18.1	(0.8)	38.4	(0.9)	34.9	(1.1
	German-speaking community	32.5	(2.3)	32.5	(2.6)	24.5	(2.3)	10.5	(1.6)	6.5	(1.6)	11.2	(2.1)	43.1	(2.7)	39.1	(2.7)	7.6	(1.5)	24.5	(2.4)	40.8	(2.9)	27.2	(2.8
	Canada																								
	Alberta	36.7				18.3			(0.5)			1		1	(1.5)			1						29.3	
	British Columbia	34.2 37.0			(1.6)	20.2			(0.8)	7.8	(0.9)		(1.2)	1	(1.8)	19.4 16.0		i	(0.9)	15.9	(0.9)		(1.7)		
	Manitoba New Brunswick		(2.1)		(1.6)	21.9			(0.6)	1	(0.8)	ı	(1.3)	1		23.0		8.9	(1.1)	l	(1.2)			28.8 33.5	
	Newfoundland and Labrador		(1.4)		(1.8)	1			(0.8)		(1.1)		(1.0)	1	(1.9)	35.1		1	(1.0)	1	(1.0)		(1.7)	ł	
	Nova Scotia	36.9	(1.8)		(1.7)	i i			(0.8)		(0.9)	i i	(1.0)	1	(2.0)	21.5		i	(0.9)	l			(1.3)		
	Ontario	41.6	(1.2)	37.0	(1.1)	17.3	(0.9)		(0.4)	10.3	(0.7)	24.3	(1.2)	1	(1.2)	8.8	(0.8)	11.2	(0.8)	21.7		1	(1.1)		(1.1
	Prince Edward Island	42.1	(2.8)	37.3	(2.8)	17.8	(2.4)	2.8	(1.1)	10.8	(2.0)	11.8	(1.7)	52.0	(3.1)	25.4	(2.7)	6.9	(1.5)	19.5	(2.4)	36.0	(2.7)	37.6	(3.0
	Quebec	47.0	(1.3)	31.6	(1.1)	15.8	(0.9)	5.6	(0.7)	6.3	(0.7)	16.6	(1.0)	67.2	(1.5)	9.9	(1.4)	9.3	(0.8)	19.1	(0.9)	43.0	(1.4)	28.6	(1.4
	Saskatchewan	34.2	(1.6)	38.5	(1.3)	21.6	(1.2)	5.7	(0.8)	9.5	(0.8)	18.8	(1.5)	50.4	(1.7)	21.4	(2.0)	10.5	(0.9)	19.2	(1.2)	39.4	(1.4)	30.8	(1.9
	Italy	-																							
	Bolzano			34.4		1			(0.8)			ł		1	(1.2)			ł		1				24.6	
	Campania			35.1		1			(0.6)		(0.9)				(2.1)	1		1	(0.9)			1		19.8	
	Lombardia Trento			35.6 40.2		1			(0.6)		(0.7)	1	(1.0)	1	(1.5)			1						27.5 25.1	
	Portugal	54.4	(1.7)	10.2	(1.5)	20.0	(1.1)	5.4	(0.5)	7.7	(0.7)	17.0	(1.1)	45.0	(1.5)	20.5	(1.2)	0.5	(0.7)	15.7	(1.0)	10.7	(1.2)	25.1	(1.1
	Região Autónoma dos Açores	49.0	(1.8)	32.1	(1.8)	14.8	(1.3)	4.1	(0.8)	7.8	(0.9)	11.9	(1.2)	53.8	(1.6)	26.5	(1.1)	13.4	(1.2)	22.9	(1.4)	40.3	(1.6)	23.3	(1.4
	Spain	1.010	(110)		(110)		(110)		(010)				()	100.0	(110)		(111)		()		()	1010	(110)		(
	Andalusia •	37.7	(1.8)	35.3	(1.4)	21.6	(1.2)	5.3	(0.8)	2.2	(0.4)	2.9	(0.6)	24.8	(2.3)	70.1	(2.6)	4.8	(0.7)	9.9	(0.9)	44.2	(1.6)	41.1	(1.8
	Aragon•	33.4	(1.5)	32.9	(1.2)	25.7	(1.0)	7.9	(0.9)	2.5	(0.5)	3.7	(0.7)	31.0	(2.9)	62.8	(3.1)	4.7	(0.4)	10.2	(1.0)	36.5	(1.6)	48.6	(2.1
	Asturias*	34.2	(1.5)	34.6	(1.3)	22.1	(1.1)	9.1	(1.0)	3.3	(0.5)	4.6	(0.6)	42.8	(2.7)	49.3	(3.1)	6.1	(0.7)	9.5	(0.9)	39.2	(1.3)	45.2	(1.5
	Balearic Islands*		(2.1)		(1.5)	1			(0.8)		(0.4)	1	(0.7)	1	(1.9)	62.9			(0.7)	l	(1.5)		(1.4)		(2.1
	Basque Country •		(1.1)			23.0		8.0			(0.5)	1	(1.1)		(1.4)	63.6		1		1		35.5			
	Canary Islands*		(1.6)			24.0			(1.0)		(0.6)	i i	(0.6)	1	(2.1)	64.6		i	(0.7)	l			(1.6)	1	(2.3
	Cantabria • Castile and Leon •	36.9	(1.1) (1.9)	33.7	(1.2)	1		7.3 8.3		3.1	(0.4)	1	(0.7)	1	(2.5)	60.5 54.2		1	(0.5)	10.4	(1.0)	1	(1.6)	1	(2.0
	Castile-La Mancha•		(1.2)	31.8		1	(1.4)		(0.6)		(0.7)	1	(0.6)		(2.8)	64.4			(0.7)	1			(1.7)		(1.4
	Catalonia*	42.1	(1.2)	33.5		i .		5.0			(0.5)	i i	(0.5)	1	(3.3)	52.0		i	(0.8)	l	(1.4)			25.9	
	Comunidad Valenciana*		(1.5)		(1.0)			7.6			(0.4)	1	(0.8)	1		65.3		1	(0.6)	12.7		1	(1.3)		(2.1
	Extremadura •	37.2	(1.7)	30.2	(1.3)	24.1	(1.1)	8.5	(0.8)	2.2	(0.3)	3.3	(0.5)	24.1	(2.6)	70.4	(2.8)	5.2	(0.6)	11.1	(0.8)	39.5	(1.4)	44.2	(1.7
	Galicia•	32.7	(1.2)	34.8	(1.0)	25.3	(1.3)	7.2	(0.8)	1.8	(0.3)	2.8	(0.5)	32.9	(2.2)	62.5	(2.3)	9.1	(1.0)	23.2	(1.8)	43.2	(1.6)	24.5	(2.3
	La Rioja•	33.5	(1.4)	34.5	(1.3)	23.9	(1.4)	8.2	(0.9)	4.1	(0.7)	5.4	(0.7)	32.0	(1.3)	58.5	(1.5)	5.7	(0.7)	12.4	(1.0)	38.9	(1.5)	43.0	(1.5
	Madrid*	32.1	(1.6)			24.4		7.5			(0.4)	1	(0.8)	1	(3.0)	53.6		3.0		9.3					(1.9
	Murcia •			33.1		1			(1.0)		(0.4)	1	(0.8)			49.7		ł	(0.7)	1				45.0	
	Navarre*	32.9	(1.4)	37.0	(1.5)	21.0	(1.3)	9.1	(0.9)	3.1	(0.7)	8.3	(1.4)	31.3	(2.0)	5/.3	(2.6)	4.3	(0.5)	13.3	(1.4)	38.4	(1.5)	44.0	(2.1
	United Kingdom England	373	(O Q)	37.7	(0.8)	10.8	(0.7)	5.2	(0.3)	3.6	(0.3)	153	(0.8)	62.5	(1.0)	186	(O Q)	5.0	(0.3)	117	(0.7)	36.8	(1.0)	46.5	(1.0
	Northern Ireland		(1.0)		(1.2)	i i			(0.9)		(0.5)	1	(1.0)	1	(1.3)	17.5		1	(0.6)	l		34.0		ł	
	Scotland			41.0			,	7.7			(0.4)		,		(1.0)	1			(0.5)			1		26.2	
	Wales	1		39.6		1		9.3	(0.6)			1		1	(1.3)	22.2	(1.1)	5.3	(0.5)	12.2	(0.7)	35.1	(0.7)	47.4	(1.2
	United States																								
	Massachusetts*			36.1		1									(1.3)										
	North Carolina•			37.6											(1.6)										
	Puerto Rico*	44.7	(1.8)	27.9	(1.8)	20.9	(1.3)	6.5	(1.0)	8.0	(1.0)	11.6	(1.0)	41.0	(2.1)	39.4	(2.3)	25.1	(1.8)	30.6	(1.3)	35.1	(1.6)	9.2	(1.3
2	Colombia																								
Partners	Bogotá	41.0	(1.3)	28.0	(0.9)	25.9	(1.6)	5.1	(0.7)	4.5	(0.7)	8.3	(1.1)	53.3	(2.8)	33.9	(3.8)	9.0	(0.8)	17.0	(0.7)	45.2	(1.1)	28.7	(1.5
Fa.	Cali	44.0	(1.4)	27.0	(1.1)	24.1	(1.4)	4.9	(0.8)	4.5	(0.9)	6.6	(0.9)	32.6	(3.0)	56.4	(3.4)	12.8	(1.0)	15.2	(1.1)	41.8	(1.5)	30.2	(1.4
	Manizales			28.0		1			(0.7)		(0.7)				(2.2)										
	Medellín	40.5	(1.7)	28.9	(1.2)	25.3	(1.0)	5.2	(0.8)	5.1	(0.7)	7.4	(1.0)	45.0	(2.1)	42.5	(2.8)	9.2	(0.8)	15.2	(1.2)	43.7	(1.4)	31.9	(1.9
	United Arab Emirates	1																							
	Abu Dhabi*			34.6		1						1		1	(1.3)			1							
	Ajman Dubai•	1		36.8 35.9		1									(2.1)										
	Fujairah			36.1		l .						1		1	(2.0)	1		l				1			
	Ras Al Khaimah			32.7		1						1		1	(1.8)	1		1							
	Sharjah			34.1											(3.5)										
	Umm Al Quwain			33.6		1					(1.8)	1		1		1		l				1			

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[•] PISA adjudicated region.

Notes: Results for the province of Quebec in this table should be treated with caution due to a possible non-response bias.

For Massachusetts and North Carolina, the desired target population covers 15-year-old students in grade 7 or above in public schools only (see Annex A2). Puerto Rico is an unincorporated territory of the United States. As such, PISA results for the United States do not include Puerto Rico.

See Table II.2.26 for national data.



[Part 2/3]

Table B2.II.10 Enquiry-based science teaching and learning practices

Results based on students' reports

Res	ults based on students' repo	rts										1.0													
						Perce	ntage	of stu	dents	who r					ing thi		appen	in the	eir scie	nce le	essons				
								nclusio		te	schoo o a nu . the r	l scier imber nover	of dit nent o	dea c feren of obj	ns how an be t phen ects, s erties	applio omen ubsta	ıa						to de		
		less	all	less	nost	less		hai ev	er or dly er	less	all	less		less	ome	har ev	er'	less	all	less	nost	less	ome	har ev	/er′
	Polgium	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
OECD	Belgium Flemish community	9.8	(0.5)	31.9	(0.7)	42.6	(0.8)	15.7	(0.8)	20.3	(0.9)	38.8	(0,9)	29.2	(0.8)	11.7	(0,6)	2.9	(0.3)	5.6	(0.4)	20.0	(0.9)	71.6	(1.0)
0	French community	12.2				1		1				1		1	(0.8)			1	(0.6)				(0.8)	1	
	German-speaking community Canada	10.6	(2.0)	21.3	(2.4)	41.6	(2.9)	26.5	(2.2)	16.4	(2.4)	38.1	(2.7)	32.1	(2.7)	13.3	(1.9)	2.4	(0.9)	3.8	(1.1)	13.8	(2.0)	80.0	(2.5)
	Alberta				(1.3)			1			(1.4)	1		1			(0.6)	1	(0.9)						
	British Columbia				(1.3)			1	(1.4)		(1.5)	1					(0.7)	1	(1.0)				(1.5)		(2.6)
	Manitoba New Brunswick		(1.2)		(1.6) (1.4)	38.2		1	(0.7)		(1.3)	39.9			(1.4)		(0.7)	1	(0.9)		(1.3)		(2.2)		(1.7) (1.7)
	Newfoundland and Labrador		(1.3)	21.2		48.1		i	(1.5)	1	(1.7)	35.0		31.4			(0.7)	1	(0.9)			25.5			(2.2)
	Nova Scotia		(1.2)	32.5		41.8		1	(1.3)	27.2		38.9		27.5			(0.8)	I	(1.1)				(1.4)	1	(2.2)
	Ontario	19.8	(0.9)	39.6	(1.3)	35.5	(1.4)	5.1	(0.5)	30.5	(1.1)	40.7	(0.9)	23.2	(1.0)	5.6	(0.5)	8.6	(0.7)	13.2	(0.9)	30.5	(1.2)	47.7	(1.6)
	Prince Edward Island		(2.0)		(2.9)	1	(2.7)	1	(1.9)		(2.8)	1		1			(1.7)	l .	(1.5)				(2.8)	1	(3.1)
	Quebec			28.2		52.6		!	(1.0)		(1.8)	1			(0.9)		(0.5)	1	(0.7)	10.5			(1.7)	1	
	Saskatchewan Italy	1/.5	(1.1)	35.2	(1.5)	3/.5	(1.2)	9.9	(1.6)	25.1	(1.3)	38./	(1.2)	28.2	(1.1)	/.9	(1.1)	9.0	(0.8)	16.2	(1.0)	32.5	(1.3)	42.4	(1.9)
	Bolzano	12.0	(0.8)	28.2	(1.0)	38.1	(1.2)	21.7	(0.8)	13.7	(0.9)	34 1	(1.1)	35.0	(1.1)	17 2	(0.7)	3.6	(0.5)	8.0	(0.6)	18.0	(1.1)	70.5	(1.2)
	Campania	8.9				l .		1				l .		1	(1.3)			1	(0.9)				(1.7)	I	
	Lombardia	5.1				1		1				1		1	(1.3)			1	(0.3)				(1.1)	1	
	Trento	8.7	(0.8)	22.6	(1.2)	41.7	(1.2)	27.0	(1.0)	9.3	(0.8)	30.8	(1.3)	44.5	(1.3)	15.5	(1.0)	2.7	(0.4)	8.8	(0.9)	20.7	(1.2)	67.8	(1.5)
	Portugal	1																							
	Região Autónoma dos Açores Spain	14.5	(1.2)	25.4	(1.8)	45.6	(1.8)	14.4	(1.0)	22.7	(1.6)	35.1	(1.5)	34.3	(2.0)	7.9	(0.9)	6.8	(0.8)	11.5	(1.0)	28.5	(1.6)	53.2	(1.9)
	Andalusia •	7.5	(1.1)	16.8	(1.4)	33.3	(1.5)	42.4	(2.6)	20.1	(1.6)	31.4	(1.6)	34.3	(1.5)	14.2	(1.2)	4.1	(0.6)	6.8	(0.9)	18.0	(1.3)	71.1	(1.8)
	Aragon•	7.3	(0.7)	16.6	(1.3)	38.6	(1.6)	37.5	(2.6)	15.7	(1.1)	33.3	(1.7)	35.2	(1.5)	15.9	(1.5)	4.0	(0.6)		(0.8)	18.6	(1.8)	71.6	(2.5)
	Asturias*	10.8			(1.3)	l .		1			(1.6)	l .		l .				1	(0.6)				(1.3)	1	(1.6)
	Balearic Islands Balearic Grantus	11.1			(1.3)			32.2				1			(1.4)			1	(0.6)				(1.3)		(1.7)
	Basque Country Canary Islands	8.8 9.6			(1.2)	l .	(1.2)	36.8	(1.9)		(0.8)	I	(1.0)	1	(1.1)	16.5		I	(0.6)		(1.0)		(1.0)	1	(1.9)
	Cantabria•	6.7			(1.2)		(1.4)	1	(1.9)		(0.9)	1	(1.5)	1	(1.5)			1	(0.6)				(1.1)		(1.7)
	Castile and Leon•	7.6			(1.4)	l .	(1.6)	1	(2.5)		(1.3)	1	(1.3)	1	(1.5)	12.5			(0.6)		(0.7)		(1.3)	1	(2.1)
	Castile-La Mancha*	9.1	(1.0)	17.5	(1.1)	37.7	(1.7)	35.8	(2.6)	19.8	(1.3)	31.5	(1.2)	34.4	(1.7)	14.3	(1.1)	4.0	(0.6)	6.8	(0.7)	21.4	(1.4)	67.8	(1.8)
	Catalonia*	14.9	(1.2)	25.7	(1.7)	37.3	(1.4)	22.1	(2.0)	22.1	(1.5)	38.4	(1.4)	29.6	(1.6)	9.9	(0.8)	4.3	(0.5)	7.1	(0.8)	23.9	(1.5)	64.7	(1.7)
	Comunidad Valenciana*		(0.8)		(1.4)		(1.8)	1	(2.3)		(1.1)	1	(1.7)	1	(1.6)	13.1		1	(0.7)				(1.8)	1	(2.4)
	Extremadura*	7.3			(1.1)	I	(1.6)	1				I		l	(1.5)				(0.5)				(1.4)	I	
	Galicia• La Rioja•	6.2	(0.7)		(1.3)		(1.4)	38.8 35.4	(1.4)		(1.3)		(1.2)		(1.1)	14.1 15.8		i	(0.4)		(0.7)		(1.1)		(1.6)
	Madrid*		(1.2)		(1.3)	l .		1				l .		1	(1.6)			1	(0.5)				(1.2)	1	
	Murcia•				(1.3)	41.5	(1.1)	31.5	(1.8)	18.5	(1.0)	34.3	(1.4)	34.6	(1.2)	12.6	(0.9)	4.2	(0.6)	7.0	(0.7)	24.3	(1.4)	64.4	(1.8)
	Navarre*	8.4	(0.9)	21.8	(1.8)	37.8	(1.7)	31.9	(2.6)	17.5	(1.2)	34.9	(1.4)	35.3	(1.2)	12.3	(1.0)	2.9	(0.5)	10.3	(1.3)	22.4	(1.6)	64.4	(2.8)
	United Kingdom	144.0	(O E)	امده	(0.0)		(0.0)		(0.4)	l a	(0.00)		(0.0)	1004	(O =0		(0.6)		(0.0)		(0.4)	l a a ==	(4.0)		(4.0)
	England Northern Ireland				(0.8)	l .		ı	(0.4)		(0.7)	l .		1	(0.7)		(0.6)		(0.3)				(1.0)	1	
	Scotland				(1.1)			1				1		1	(1.1)		(0.6)	1	(0.4)				(1.1)	1	
	Wales				(1.1)	l .						l .		l .	(0.9)		,		(0.4)				(0.9)	I	
	United States																								
	Massachusetts*														(1.4)				(0.7)						
	North Carolina*														(1.4)										(1.7)
	Puerto Rico*	30.1	(1.4)	28.2	(1.3)	28.8	(1.5)	12.9	(1.6)	35.8	(1./)	28.1	(1.8)	26.2	(1.4)	9.9	(1.5)	17.0	(1.3)	17.7	(1.4)	30.4	(1./)	34.9	(1.9)
SLS	Colombia																								
Partners	Bogotá														(0.8)				(0.7)					I	
Ра	Cali														(1.4)		(0.7)	1	(0.8)					1	
	Manizales Medellín														(1.3) (1.1)		(0.8)		(0.7)						
	United Arab Emirates	14.3	(1.1)	20.4	(1.7)	1.7.3	(1.0)	21.0	(4.4)	27.0	(1.7)	33.0	(1.0)	55.7	(1.1)	J.2	(0.5)	0.2	(0.7)	5.0	(0.0)	J2.J	(1.5)	51.4	(1.7)
	Abu Dhabi*	22.6	(1.1)	31.6	(1.2)	32.1	(1.1)	13.6	(0.9)	33.1	(1.1)	34.2	(1.0)	24.6	(0.9)	8.1	(0.6)	17.1	(0.8)	22.5	(1.0)	30.4	(1.0)	30.0	(1.5)
	Ajman	20.6	(1.5)	32.2	(1.7)	33.6	(2.0)	13.6	(1.2)	36.7	(2.5)	31.9	(1.9)	24.8	(1.8)	6.6	(0.9)	20.1	(1.5)	26.2	(1.7)	30.8	(2.1)	23.0	(2.2)
	Dubai*														(0.6)			1	(0.6)					I	
	Fujairah														(1.3)			1	(1.8)						
	Ras Al Khaimah Sharjah										(2.1)				(1.9)			I	(2.1)					1	
	Snarjan Umm Al Quwain														(2.2)										(2.5)
	Chilli / ti Quwaffi	44.4	(4.4)	1.2.1	(4.0)	1,55.5	(4.3)	12.4	(1.0)	100.0	(4.4)	132./	(4.4)	123./	(4.4)	_ / .2	(1.4)	10.9	(4.1)	20.0	(4.3)	43.3	(4.4)	22.0	(4.4)

^{*} PISA adjudicated region.

Notes: Results for the province of Quebec in this table should be treated with caution due to a possible non-response bias.

For Massachusetts and North Carolina, the desired target population covers 15-year-old students in grade 7 or above in public schools only (see Annex A2). Puerto Rico is an unincorporated territory of the United States. As such, PISA results for the United States do not include Puerto Rico.

See Table II.2.26 for national data.

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[Part 3/3]

Table B2.II.10 Enquiry-based science teaching and learning practices

Results based on students' reports

	ılts based on students' repo					Perce	ntage	of stu	dents	who r	eporte	ed tha	t the t	follow	ing thi	ings h	appen	in the	ir scie	nce le	ssons				
						class d		:			teach							Stu	dents					estiga	tion
			all	Įn r	nost	In s	ome	or h	ever ardly	_ In	 all sons	Įn n	nost		ome	Ne or h	ver ardly	In less		In n	nost	In se	ome	or ha	ver ardly
		%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Q.	Belgium																								
OECD	Flemish community•		(0.5)			42.2			(0.9)		(0.5)	l		1	(8.0)	1		1	(0.3)		(0.5)			51.3	
	French community	8.9				1					(0.9)	1		1				1	(0.7)					52.3	
	German-speaking community	2.7	(0.9)	12.2	(1.9)	31.0	(2.4)	54.1	(2.6)	8.1	(1.5)	29.6	(2./)	3/.1	(3.0)	25.2	(2.4)	2.3	(0.9)	9.8	(1.8)	33.0	(2.4)	54.9	(2.8)
	Canada Alberta	1111	(1.0)	10.7	(1.1)	242	(1.2)	240	(1 E)	20.5	(1 E)	22.0	(1.2)	27.2	(1.2)	0.5	(0.9)	140	(1.1)	27.7	(1.2)	20.4	(0,0)	10.0	(1.4)
	British Columbia	7.2			(1.1)		(1.5)		(2.1)		(1.5)	1		1	(1.4)		(0.8)	14.0	(0.9)	22.2			(0.9)	28.1	
	Manitoba	1	(1.0)		(1.3)	1	(2.3)		(1.8)		(1.9)	l		1		11.8		ł	(1.1)				(1.4)	ł	
	New Brunswick	7.7	(0.8)			35.0					(1.4)	l		1	(1.5)	1		8.9		21.1				31.2	
	Newfoundland and Labrador	- 1	(1.0)		(1.0)	1	(1.5)		(1.6)		(1.8)	1			(1.7)		(1.0)	ł	(1.0)	14.6			(2.0)	38.9	
	Nova Scotia	i i	(1.0)		(0.9)	l .					(1.5)	l		1	(1.3)		(1.1)	1	(1.3)	23.9			(1.4)	l	
	Ontario	1					(1.1)		(1.4)		(1.0)	l		26.9			(0.6)		(0.7)	30.0		39.6		16.2	
	Prince Edward Island					39.4					(3.0)	l		1				1						36.5	
	Quebec	6.2	(0.8)	10.4	(0.9)	26.0	(1.5)	57.3	(2.1)	28.2	(1.5)	31.5	(1.0)	27.3	(1.2)	13.0	(1.1)	6.9	(0.8)	11.3	(0.8)	28.4	(1.4)	53.4	(1.9)
	Saskatchewan	10.9	(1.1)	20.0	(1.1)	35.6	(1.5)	33.4	(1.9)	22.8	(1.3)	34.0	(1.7)	29.5	(1.4)	13.8	(1.8)	12.9	(1.0)	25.9	(1.3)	38.1	(1.6)	23.1	(1.8
	Italy																								
	Bolzano	8.8	(0.8)	21.0	(0.9)	42.8	(1.3)	27.4	(1.2)	12.5	(0.8)	27.3	(1.1)	37.9	(1.2)	22.3	(1.2)	6.1	(0.7)	16.7	(1.0)	37.2	(1.4)	40.0	(1.3
	Campania	9.1	(0.8)	17.7	(1.0)	39.9	(1.1)	33.3	(1.6)	17.7	(1.2)	31.9	(1.3)	35.3	(1.2)	15.1	(1.2)	7.1	(0.8)	12.8	(1.4)	31.6	(1.4)	48.5	(1.9)
	Lombardia	4.0	(0.5)	15.4	(1.3)	42.4	(1.3)	38.2	(1.9)	8.5	(0.8)	21.9	(1.2)	41.7	(1.2)	27.9	(1.7)	3.0	(0.5)	7.8	(8.0)	30.2	(1.6)	59.0	(1.9)
	Trento	5.4	(0.7)	16.9	(1.0)	43.6	(1.2)	34.1	(1.2)	7.6	(0.8)	26.7	(1.0)	39.2	(1.2)	26.5	(1.0)	2.7	(0.4)	11.1	(8.0)	33.8	(1.3)	52.5	(1.4
	Portugal	1																							
	Região Autónoma dos Açores	11.5	(1.1)	20.3	(1.5)	42.8	(1.7)	25.4	(1.6)	24.4	(1.4)	32.7	(1.5)	31.9	(1.4)	11.0	(1.1)	10.1	(1.1)	16.6	(1.3)	39.7	(1.8)	33.6	(1.5
	Spain	1						1																	
	Andalusia •	5.7				1					(1.5)	l		1		1						1		39.7	
	Aragon•	4.7				31.5					(1.1)	1		1		19.0		1	(0.7)		(1.0)			42.3	
	Asturias*	5.5		9.7		l .	(1.2)				(1.4)	l		1	(1.0)			i	(1.0)					31.8	
	Balearic Islands Balearic France	6.9			(1.1)		(1.5)		(1.9)		(1.1)	l				17.0			(0.8)		(1.3)	41.7		l	
	Basque Country Canary Islands	6.8		14.0		29.4 35.4			(2.1)		(0.8)	l			(1.1)	20.0 19.3		1	(0.7)	14.3	(1.5)	33.0	(1.4)	l	
	Cantabria •	4.3			(1.0)	l .	(1.4)		(1.9)		(1.0)	l	(1.4)	1	(1.2)		(1.2)	i	(0.6)	13.9			(1.5)	i	
	Castile and Leon*	3.5		8.1			(1.3)	54.7			(1.4)	l		1	(1.5)	17.8		4.5	(0.6)		(1.0)		(1.2)	41.0	
	Castile-La Mancha*	5.3			(1.0)				(1.8)		(1.2)	l	(1.2)		(1.2)				(0.8)	16.1			(1.5)	l	
	Catalonia*	6.1	(0.5)		(1.2)	1	(1.4)	1	(1.6)		(1.2)	i		i		14.5		i	(0.6)	22.1				25.5	
	Comunidad Valenciana*	5.6				33.9		49.0			(1.2)	l	(1.4)	1	(1.4)		(1.3)	1	(0.8)		(1.1)	41.7		l	
	Extremadura*	5.6	(0.7)	11.3	(0.8)	31.2	(1.3)	51.9	(1.9)	19.8	(1.3)	28.2	(1.2)	34.1	(1.5)	18.0	(1.0)	7.6	(0.8)	13.3	(1.0)	35.3	(1.4)	43.8	(1.6
	Galicia•	3.4	(0.5)	6.1	(0.6)	22.7	(1.2)	67.8	(1.6)	18.3	(1.1)	28.1	(1.5)	34.5	(1.2)	19.1	(1.4)	4.3	(0.6)	9.8	(1.1)	35.2	(1.4)	50.7	(1.8
	La Rioja•	4.6	(0.6)	10.2	(0.9)	32.4	(1.4)	52.8	(1.5)	17.8	(1.1)	31.1	(1.4)	33.2	(1.6)	17.9	(1.4)	7.0	(0.8)	13.0	(1.1)	37.4	(1.4)	42.6	(1.5
	Madrid*	3.7	(0.5)	8.8	(1.0)	32.8	(1.4)	54.7	(1.7)	16.5	(1.1)	27.3	(1.1)	38.3	(1.3)	17.8	(1.0)	5.3	(0.6)	14.3	(1.2)	41.6	(1.3)	38.8	(2.1
	Murcia*	4.8	(0.7)	10.2	(0.9)	34.7	(1.7)	50.3	(1.7)	20.5	(1.5)	29.1	(1.2)	35.4	(1.4)	15.1	(1.3)	6.2	(0.6)	14.9	(1.0)	41.6	(1.3)	37.2	(1.8
	Navarre*	4.5	(0.7)	14.0	(1.6)	32.0	(1.3)	49.4	(2.4)	17.2	(1.1)	31.1	(1.5)	34.5	(1.6)	17.1	(1.3)	5.5	(0.6)	17.2	(1.6)	39.7	(1.2)	37.6	(1.8
	United Kingdom	,																							
	England	i i				1					(0.7)	l		1				1						19.0	
	Northern Ireland	4.4				29.8					(1.0)	l		1		17.0		l .				1		l	
	Scotland	5.7				35.8					(0.9)			1				1						20.2	
	Wales	4.9	(0.4)	11.8	(0.8)	34.8	(0.9)	48.6	(1.2)	13.9	(0.6)	31.3	(0.9)	3/.1	(0.9)	17.7	(0./)	6.4	(0.4)	21.5	(0.8)	49./	(1.0)	22.5	(1.0
	United States	0.4	(0.7)	12 5	(0.9)	25.4	(1 E)	42.7	(1.0)	22.0	(1.3)	20.0	(1.1)	22.2	(1.2)	12.7	(0, 0)	12.6	(1.0)	25.0	(1.1)	42.1	(1.4)	10.4	(1.7
	Massachusetts • North Carolina •										(1.6)														
	Puerto Rico*										(1.9)														
	Tuerto Rico	13.2	(1.2)	10.5	(1.7)	J-7.2	(1.0)	27.7	(2.0)	150.0	(1.5)	27.0	(1.0)	25.0	(1.5)	7.4	(1.5)	33.1	(1.5)	20.1	(1.5)	25.0	(2.0)	11.0	(1.5
srs	Colombia																								
Partners	Bogotá										(1.3)							19.2						!	
Pa	Cali										(1.8)							22.9							
	Manizales										(1.6)							17.6							
	Medellín	11.3	(0.9)	15.8	(0.8)	38.2	(1.5)	34.7	(1.4)	31.9	(1.5)	29.4	(1.0)	28.7	(1.1)	10.0	(0.9)	16.3	(1.2)	23.3	(1.0)	41.7	(1.2)	18.7	(1.3
	United Arab Emirates	1	(0	۱	/4 -	las -		las:		lac:	/a -	l a c .		las.	(0	lac.	(0	lac -	(n l	l a = -		l a.c	/O =	1.5	
	Abu Dhabi*					1					(1.1)	1		1				21.3				1		1	
	Ajman										(1.9)							22.0				1		1	
	Dubai*										(0.7)							16.3				1		1	
	Fujairah					1					(1.9)	1		1				24.6				1			
	Ras Al Khaimah										(1.9)														
	,					1						1		1				l				1		1	
	Sharjah Umm Al Quwain	13.1	(1.8)	20.4	(1.4)	32.7	(1.9)	33.8	(2.9)	33.8	(1.7)	33.3	(1.4)	26.7	(1.3)	6.2	(0.8)	17.8	(1.8)	26.2		(1.7)	(1.7) 32.6	(1.7) 32.6 (2.3)	(1.3) 30.5 (2.1) 16.2 (1.7) 32.6 (2.3) 23.4 (2.5) 31.7 (2.3) 15.3

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[•] PISA adjudicated region.

Notes: Results for the province of Quebec in this table should be treated with caution due to a possible non-response bias.

For Massachusetts and North Carolina, the desired target population covers 15-year-old students in grade 7 or above in public schools only (see Annex A2). Puerto Rico is an unincorporated territory of the United States. As such, PISA results for the United States do not include Puerto Rico.

See Table II.2.26 for national data.



Table B2.II.11 Student truancy

Results hased on students' self-reports

Res	ults based on students' self-	repor	ts																		_				
			I ski	nned	a who		of sc		stude	ents w					the tw lasses	NO WE	eks p	rior to				e for	school		—
		Ne	ever	Onc	e or		ree	Fi or n	ve nore nes	Ne	ver	Onc	e or	Th	ree iour nes	Fi or n tin	ore	Ne	ver	One	ce or	Th	ree four nes	Fir or n	ive nore nes
		%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
OECD	Belgium																								
OF	Flemish community•	1	(0.4)		(0.3)		(0.1)			92.8		1	(0.4)		(0.1)			1		31.6			(0.5)		(0.5)
	French community German-speaking community	87.7	(0.7)	10.2	(0.4)		(0.2)			82.7			(0.8)		(0.3)			1		33.5	(2.1)	1	(0.6) (1.5)		(0.9)
	Canada	07.7	(1.0)	10.2	(1.0)	0.0	(0.4)	1.0	(0.7)	104.4	(1.0)	12.0	(1.5)	2.0	(0.0)	0.0	(0.4)	33.3	(2.1)	24.5	(2.1)	0.5	(1.5)	/./	(1.5)
	Alberta	83.5	(0.9)	13.5	(0.8)	1.6	(0.3)	1.4	(0.3)	69.5	(1.2)	23.9	(1.1)	4.3	(0.5)	2.4	(0.3)	50.7	(1.6)	32.7	(1.4)	8.7	(0.6)	7.9	(0.8)
	British Columbia	83.3	(1.1)	13.9	(1.0)	1.5	(0.3)	1.4	(0.2)	70.1	(1.4)	22.2	(1.1)	5.0	(0.8)	2.7	(0.4)	48.5	(1.4)	32.4	(1.3)	10.1	(0.7)	9.0	(0.8)
	Manitoba	80.7	(1.3)	15.3	(1.1)	2.4	(0.6)	1.6	(0.3)	63.8	(1.6)	27.7	(1.4)	5.8	(0.7)	2.8	(0.4)	1		31.4		11.9	(1.3)	8.7	(0.7)
	New Brunswick		(1.3)	13.1	,		(0.5)			77.1		1			(0.5)		(0.7)	1		29.0			(8.0)		(0.9)
	Newfoundland and Labrador	1	(1.9)	1			(0.7)			67.5		1			(0.9)		(0.6)	1		26.9			(1.0)		(1.1)
	Nova Scotia		(1.0)	14.7			(0.4)		(0.3)		(1.4)	18.0		3.7			(0.4)	1	(1.6)	29.9			(0.8)		(0.9)
	Ontario Prince Edward Island	77.9	(1.0)				(0.3)			70.7 80.7		1		4.5	(0.5)		(0.3)	ı		30.4		11.0			(0.7)
	Quebec	91.2			(0.6)		(0.9)			85.5		1	(2.1)		(0.2)		(0.7)	1		26.3			(1.4)		(1.1)
	Saskatchewan		(1.2)				(0.5)			68.2		l .			(0.6)			I		1	(1.3)				(1.0)
	Italy	1.5.0	, /						,,		, ,		/		(/		, ,		,,	,	,,		/		
	Bolzano	69.1	(1.0)	22.8	(0.9)	3.8	(0.4)	4.2	(0.4)	71.1	(1.0)	21.2	(0.9)	3.5	(0.4)	4.1	(0.5)	61.5	(1.0)	24.5	(1.0)	7.3	(0.7)	6.7	(0.6)
	Campania	34.1	(1.8)	50.8	(1.6)	7.2	(0.8)	7.9	(0.8)	55.1	(1.5)	35.6	(1.3)	6.6	(0.8)	2.8	(0.5)	56.4	(1.7)	29.4	(1.4)	8.1	(0.8)	6.2	(0.9)
	Lombardia	50.1	(1.8)	36.2	(1.3)	5.6	(0.6)	8.2	(0.7)	59.3	(1.5)	30.9	(1.4)	5.7	(0.4)	4.1	(0.6)	64.7	(1.5)	24.6	(1.3)	5.5	(0.5)	5.3	(0.5)
	Trento	51.6	(1.2)	35.7	(1.3)	6.8	(0.7)	5.9	(0.5)	53.9	(1.5)	34.7	(1.4)	6.2	(0.6)	5.2	(0.6)	71.4	(1.3)	20.1	(1.1)	3.6	(0.4)	4.8	(0.6)
	Portugal	1		I											1										
	Região Autónoma dos Açores	73.8	(1.1)	21.1	(1.2)	3.3	(0.5)	1.8	(0.4)	61.1	(1.2)	31.5	(1.2)	5.4	(0.7)	1.9	(0.3)	53.9	(1.5)	31.5	(1.5)	9.7	(0.9)	5.0	(0.6)
	Spain Andalusia •	74.1	(1.7)	21.0	(1.2)	2.0	(0.5)	1.0	(0.4)	69.7	(1.5)	23.6	(1.2)	4.5	(0.6)	2.2	(0.4)	59.7	(1 Q)	27.0	(1.2)	0.2	(0.8)	4.2	(0.6)
	Aragon*		(1.5)				(0.4)		(0.4)		(1.4)	1	(1.3)		(0.5)		(0.4)	1		27.0			(0.9)		(1.1)
	Asturias*		(1.6)				(0.4)		(0.5)		(1.6)		(1.4)		(0.6)					26.1			(0.8)		(0.8)
	Balearic Islands*	1	(1.6)				(0.5)		(0.4)		(1.3)	1			(0.5)		(0.3)	1		26.7			(0.8)		(0.9)
	Basque Country*	83.5	(0.9)	13.5	(0.8)		(0.2)	1.4	(0.2)	74.6	(0.9)	1	(0.8)	3.1	(0.3)	2.4	(0.3)		(1.6)			1	(0.6)	6.9	(0.6)
	Canary Islands*	72.5	(1.0)	23.5	(0.9)	1.9	(0.3)	2.1	(0.4)	72.0	(1.4)	22.4	(1.2)	4.1	(0.4)	1.5	(0.4)	56.7	(2.0)	28.9	(1.4)	8.3	(0.6)	6.1	(0.7)
	Cantabria*	80.0	(1.1)	15.9	(0.9)	2.2	(0.4)	1.9	(0.3)	68.2	(1.6)	25.1	(1.5)	4.4	(0.4)	2.4	(0.4)	54.8	(1.8)	29.5	(1.3)	8.3	(0.7)	7.4	(0.8)
	Castile and Leon*		(1.1)				(0.3)		(0.2)		(1.6)	1	(1.4)		(0.7)		(0.4)	1		25.6			(0.7)		(0.6)
	Castile-La Mancha•		(1.1)				(0.3)		(0.3)		(2.1)	1			(0.7)		(0.6)	i i		26.2			(0.7)		(0.7)
	Catalonia •	74.1		21.0			(0.4)		(0.4)		(2.1)	1			(0.8)		(0.6)	1	(1.9)	1			(0.8)		(1.0)
	Comunidad Valenciana* Extremadura*		(1.3)				(0.4) (0.4)		(0.4)	62.2	(1.7)	1		5.7	(0.7)		(0.5)	l		31.0 24.7			(0.6)		(0.9)
	Galicia•		(1.0)				(0.4)		(0.2)		(1.1)	1	(1.1)		(0.5)		(0.3)	i .		31.1			(0.9)		(0.9)
	La Rioja*		(1.2)				(0.5)		(0.4)			1			(0.6)		(0.6)			27.9			(0.7)		(0.8)
	Madrid*	74.8					(0.4)		(0.4)		(1.9)	1			(0.5)		(0.5)	1	(2.2)				(0.8)		(0.9)
	Murcia•	72.9	(1.2)	23.7	(1.0)	2.2	(0.4)	1.2	(0.2)	56.0	(1.7)	34.7	(1.2)	6.8	(0.5)	2.6	(0.4)	54.0	(1.6)	29.5	(1.2)	9.3	(0.6)	7.3	(0.8)
	Navarre*	81.8	(1.2)	15.1	(1.1)	2.0	(0.3)	1.1	(0.3)	71.3	(1.2)	22.4	(1.0)	4.5	(0.5)	1.8	(0.3)	59.3	(1.4)	26.9	(1.0)	7.2	(0.7)	6.5	(0.6)
	United Kingdom																								
	England	74.9		20.8			(0.2)			65.7		1			(0.3)			1		23.3			(0.4)		(0.3)
	Northern Ireland		(1.0)				(0.3)			51.4			(1.1)		(0.6)		, ,		, ,	21.7	,		(0.7)		(0.4)
	Scotland Wales	80.6	(0.7)	15.3			(0.3) (0.4)	1.8		80.3		1	(0.7)	2.8	(0.3)		(0.2)	1		30.6	(0.7)		(0.5)		(0.5)
	United States	05.5	(1.0)	27.3	(0.5)	4.2	(0.4)	2.0	(0.5)	30.7	(1.0)	32.0	(0.5)	3.0	(0.4)	3.1	(0.3)	05.0	(1.0)	23.1	(0.7)	0.0	(0.4)	5.4	(0.5)
	Massachusetts*	71.1	(1.4)	26.1	(1.3)	2.1	(0.4)	0.7	(0.2)	68.6	(1.5)	27.7	(1.4)	3.2	(0.5)	0.6	(0.2)	74.7	(1.5)	20.8	(1.1)	3.1	(0.5)	1.4	(0.3)
	North Carolina*		(1.1)				(0.3)					1	(1.1)		(0.3)			1		1	(1.1)		(0.5)		(0.3)
	Puerto Rico*	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	
	C-1																					-			
Partners	Colombia Bogotá	610	(1.6)	22.2	(1.6)	4.0	(0.4)	1 Ω	(0.4)	620	(1.7)	22 0	(1.6)	40	(0.3)	1.2	(0.2)	140.0	(2.2)	37.4	(2.0)	0.7	(0.9)	2.0	(0.8)
art	Cali		(1.0)				(0.6)						(1.4)		(0.4)			1		34.3			(0.7)		(0.4)
_	Manizales		(1.7)				(0.6)					ı	(1.3)		(0.7)			1		1	(1.4)		(0.7)		(0.7)
	Medellín		(1.7)				(0.4)						(1.3)		(0.6)						(1.4)		(0.8)		(0.5)
	United Arab Emirates	'													,					'			,		
	Abu Dhabi*	79.7	(1.2)	14.2	(1.0)	3.5	(0.4)	2.7	(0.3)	67.0	(1.3)	22.9	(1.0)	6.0	(0.5)	4.1	(0.4)	53.3	(1.3)	29.2	(1.0)	9.9	(0.5)	7.6	(0.6)
	Ajman		(1.5)		(1.1)		(0.6)					1	(1.6)		(0.8)			1		34.2			(0.9)		(0.9)
	Dubai*		(0.7)				(0.3)			66.9		I	(0.7)		(0.4)			1		24.5		1	(0.3)		(0.3)
	Fujairah	1	(1.2)				(0.6)					i .	(1.5)		(0.8)			1		31.3		1	(1.0)		(0.9)
	Ras Al Khaimah		(1.4)				(0.6)			65.8		1	(1.1)		(0.9)			1		32.2		1	(1.2)		(1.1)
	Sharjah Umm Al Quwain	1	(3.0)				(0.8)					i .	(1.7) (2.1)		(0.8)			i .		28.8	(2.2)		(1.2) (1.5)		(0.5)
	Ciniii/ii Quwalii	05.1	(1.0)	9.2	(1.3)	5.5	(1.0)	7.2	(1.1)	105.0	(2.0)	122.3	(4.1)	0.5	(1.4)	٦.٦	(1.4)	T7.0	(4.3)	J/.4	(4.4)	1 0.3	(1.3)	7.5	(1.3)

^{*} PISA adjudicated region.

Notes: Results for the province of Quebec in this table should be treated with caution due to a possible non-response bias.

For Massachusetts and North Carolina, the desired target population covers 15-year-old students in grade 7 or above in public schools only (see Annex A2). Puerto Rico is an unincorporated territory of the United States. As such, PISA results for the United States do not include Puerto Rico.

See Table II.3.1 for national data.

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[Part 1/5]

Table B2.II.20 Responsibilities for school governance

Res	ults based on school principa	is rep	JOI LS	•	Perc	entag	e of st	udent	s in sc	hools	where	the p	rincip	al has	consi	derab	le resp	onsib	ility fo	or the	follow	ing:			
		Selecting teachers	for hire	City of the state	riring teachers	Establishing	teachers starting salaries	Determining	increases	Formulating the	school budget	Deciding on budget	the school	Establishing student	disciplinary policies	Establishing student	assessment policies	Approving students	the school	Choosing which	textbooks are used	Determining course	content	Deciding which	courses are offered
_	n-1-:	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
OECD	Belgium Flemish community	94 7	(1.8)	82.3	(3.2)	13	(0.8)	1.5	(0.9)	85.7	(2.9)	89.2	(2.4)	90.7	(2.3)	89.0	(2.7)	84 3	(3.1)	48.0	(4.1)	30.2	(3.5)	76.3	(3.3)
Ö	French community	1	(4.9)			1	(0.3)	0.0	(O.5)						(5.6)	42.8				26.9			(2.7)		(4.9)
	German-speaking community Canada	43.0	(0.5)	37.4	(0.4)	0.0	С	0.0	С	37.3	(0.5)				(0.6)	42.5	(0.5)	66.9	(0.6)	11.7	(0.3)	6.6	(0.2)	66.9	(0.6)
	Alberta	96.9	(2.1)	57.9	(4.7)	0.2	(0.2)	0.0	С	82.6	(4.7)	93.4	(3.0)	97.9	(1.7)	93.6	(4.0)	86.9	(4.1)	38.8	(5.3)	28.5	(4.9)	98.4	(1.4)
	British Columbia	81.5	(5.5)	28.3	(5.7)	6.6	(1.3)	6.6	(1.3)	46.8	(5.9)	90.0	(3.5)	93.4	(3.2)	77.4	(6.1)	82.5	(5.2)	40.4	(6.6)	22.9	(5.5)	96.1	(2.7)
	Manitoba	93.9		31.6			(1.0)	2.0	(0.1)		(2.2)			83.3		68.5			(2.0)	47.8		29.3		99.9	
	New Brunswick	70.3		20.4		0.0	С	0.0	С	25.1				89.4		86.3			(2.0)		(2.4)	13.5			
	Newfoundland and Labrador	71.6			(4.4)		(0.3)	0.0	С		(2.8)	87.9				44.4		66.4		8.8	(0.6)			82.5	
	Nova Scotia	66.6			(3.6)	0.0	(O, O)	0.0	C		(5.0)			38.2		34.2			(5.8)	15.1	(2.6)		(1.2)	71.9	
	Ontario Prince Edward Island	84.9 100.0	(3.3) C	33.7 58.9	(5.1)	i	(0.0)	0.1	(0.0)	43.2 63.0	(3.0)	98.9 100.0	(1.1) C			60.0 69.1	(5.1)	96.6	(2.8)	55.3 3.6	(4.8)		(4.3)		(1.8)
	Quebec			41.4			(3.4)	9.1	(2.6)	60.0					(5.1)				(3.5)					75.8	
	Saskatchewan	77.4			(3.1)	0.0	(J1)	0.0	(2.0) C		(4.2)				(1.7)		(3.3)				(3.9)			91.1	
	Italy		/		()			-			=/		()		/		(/		,				(- 10)		, /
	Bolzano	45.3	(0.4)	23.0	(0.3)	1.2	(0.1)	20.9	(0.3)	4.9	(0.1)	58.2	(0.4)	55.6	(0.4)	35.3	(0.3)	84.1	(0.2)	15.6	(0.3)	12.5	(0.3)	9.6	(0.2)
	Campania	3.7	(1.7)	8.9	(3.8)	2.3	(1.8)	0.6	(0.6)	2.6	(2.0)	38.6	(7.5)	27.1	(7.1)	29.3	(7.0)	53.8	(7.6)	8.7	(4.0)	14.8	(5.5)	32.9	(6.9)
	Lombardia			22.2			(2.0)	7.4	(2.0)	17.4	(4.3)				(5.2)				(6.9)				(4.7)		(7.0)
	Trento	25.3	(2.0)	17.7	(2.1)	4.1	(1.1)	4.1	(1.1)	7.6	(1.0)	52.7	(1.4)	21.5	(0.7)	25.6	(1.7)	74.6	(1.3)	5.8	(1.9)	21.8	(2.0)	27.9	(1.9)
	Portugal	1.00	(0.4)		(0.4)		(0.0)		(0.0)	الممما	(O. E)	40.0	(O. E)		(O =0	40.	(0.6)		(0.6)		(0.0)		(0.4)		(0.6)
	Região Autónoma dos Açores	10.6	(0.1)	1.2	(0.1)	0.4	(0.0)	0.4	(0.0)	10.2	(0.5)	12.0	(0.5)	20.2	(0./)	13./	(0.6)	14./	(0.6)	0.5	(0.0)	1.4	(0.1)	15.4	(0.6)
	Spain Andalusia	21.2	(2.7)	21.2	(2.7)	2.1	(1.8)	2.1	(1.8)	54.1	(6.1)	50.1	(5.2)	62.7	(6.3)	35.4	(5.8)	24.6	(5.6)	18.9	(4.9)	6.8	(3.5)	377	(6.3)
	Aragon*	35.6			(0.6)		(1.5)		(1.5)	49.7	(6.2)			58.8		28.0			(4.9)	23.5	(4.9)		(3.4)		
	Asturias*	33.1			(1.9)	l	(3.3)	5.5	(3.3)	85.4		83.3		l .			(5.2)		(7.7)	16.8	(4.0)		(3.3)		(5.5)
	Balearic Islands*			38.5		i	(1.6)	3.6	(2.5)	l				56.2			(6.7)		(4.2)		(3.9)		(3.1)		(5.2)
	Basque Country*	45.2	(2.9)	42.6	(3.2)	7.1	(3.1)	8.7	(3.4)	54.3	(4.1)	64.3	(4.4)	52.5	(5.8)	45.7	(5.5)	30.5	(5.5)	22.9	(4.7)	15.4	(4.3)	61.0	(5.4)
	Canary Islands•	17.5	(3.3)	15.8	(2.7)	6.5	(2.2)	4.4	(0.5)	38.5	(6.4)	41.7	(6.8)	45.0	(7.5)	26.9	(6.0)		(6.2)		(5.4)	5.4	(3.1)	29.2	(5.0)
	Cantabria •	28.1		28.1	(2.3)		(2.4)	1.6	(1.6)	63.0				57.4			(6.0)		(4.3)		(3.3)		(3.1)		
	Castile and Leon•	35.0		35.0	(2.9)	l	(0.5)	4.7	(2.6)	67.8	(6.3)		(5.6)				(6.2)		(6.5)		(4.4)		(3.4)	48.2	
	Castile-La Mancha*	17.6			(1.5)		(1.4)	2.2	(1.6)	56.8				47.2		38.1			(2.9)		(2.4)		(3.3)		(5.3)
	Catalonia • Comunidad Valenciana •	47.3 31.1		46.9 29.4	(4.0)		(2.7)	9.9	(3.2)	78.0 64.7	(5.4) (6.5)		(6.1)	72.3 64.9		57.9 32.1	(6.5) (5.2)		(5.8) (4.2)	33.5 21.8	(6.7) (4.9)	28.1 17.1	(5.8) (4.9)	57.0 49.8	
	Extremadura•	22.8		19.2			(2.1)	2.0	(2.1)	49.8	(6.8)			43.5		22.4			(4.8)		(3.9)		(2.4)		(4.9)
	Galicia•	27.0		25.1			(2.7)	3.7	(2.0)	49.1	(7.7)			57.7			(5.7)		(6.2)	15.2	(3.9)		(3.2)	54.4	
	La Rioja*	39.6			(0.2)	0.0	C	0.0	C	53.2	(0.3)			42.5		18.0			(0.2)		(0.3)		(0.2)		
	Madrid*	46.3			(2.6)	12.1	(3.8)	16.7	(5.0)	71.0	(6.3)	78.9	(5.9)	66.3	(5.9)	48.8					(4.7)		(4.1)	62.2	(6.9)
	Murcia*	26.1	(1.6)	26.1	(1.6)	3.4	(2.4)	3.4	(2.4)	62.8	(6.2)	62.2	(5.8)	47.1	(4.8)	32.6	(6.0)	22.9	(4.3)	12.7	(2.8)	5.6	(1.9)	36.4	(4.7)
	Navarre*	37.4	(2.1)	33.0	(3.6)	0.0	С	4.3	(0.1)	71.7	(4.5)	79.7	(4.4)	65.0	(5.1)	36.7	(5.1)	30.8	(4.4)	24.7	(3.7)	4.7	(2.9)	71.4	(3.9)
	United Kingdom																								
	England	96.1			(2.6)				(2.9)	87.6				92.9			(2.5)		(4.3)		(3.1)				(3.3)
	Northern Ireland Scotland	75.8 92.9			(4.7)		(4.3)		(5.6)	55.4 19.6					(3.2)	90.3			(3.9) (4.9)		(3.2)		(4.7)		(4.1)
	Wales										(3.1)				(2.5)									83.4	
	United States	72.0	(2.1)	01.7	(3.4)	00.0	(3.7)	70.2	(3.2)	02.7	(3.1)	33.2	(2.5)	30.1	(2.5)	30.1	(2.5)	05.1	(1.0)	10.2	(2.3)	25.1	(1.5)	05.1	(3.1)
	Massachusetts*	95.7	(3.0)	95.7	(3.0)	3.7	(2.6)	2.0	(1.9)	67.4	(7.1)	81.0	(5.4)	89.5	(4.6)	83.0	(5.9)	36.6	(8.1)	70.3	(6.9)	64.0	(6.3)	91.9	(4.3)
	North Carolina*	94.3	(3.3)	83.1	(5.7)	0.0	С	0.0	С	52.2	(7.7)	98.0	(2.0)	84.7	(5.5)	54.3	(6.7)	52.1	(7.3)	34.2	(7.1)	17.9	(6.0)	72.6	(6.5)
	Puerto Rico*	21.7	(4.6)	13.0	(2.9)	11.3	(2.3)	11.3	(2.3)	56.3	(7.9)	80.3	(6.0)	73.0	(6.4)	44.8	(7.6)	100.0	С	16.8	(5.0)	16.0	(4.8)	33.3	(5.5)
S	Colombia										_														
Partners	Bogotá	49.4	(4.7)	50.1	(4.7)	36.2	(5.8)	32.1	(8,0)	45.4	(7.3)	53.6	(8.0)	43.0	(9.0)	51.6	(7.2)	48.6	(6,4)	30.2	(7.3)	25.1	(6.9)	64.9	(7.4)
Part	Cali	1					(7.4)								(7.5)									55.1	
_	Manizales	1									(4.2)				(3.8)			80.4	(2.6)	43.0	(3.2)	21.2	(5.5)	57.2	(3.4)
	Medellín	28.7	(3.8)	23.6	(3.9)	18.0	(2.7)	18.0	(2.7)	30.9	(6.9)	53.6												41.1	
	United Arab Emirates																								
	Abu Dhabi•	1					(3.9)			1					(3.8)									32.5	
	Ajman Dubai*						(5.0)								(2.7)									16.1	
	Dubai* Fujairah						(0.1)								(0.1) (4.9)				(0.1)		(0.2)			68.4	(3.1)
	Ras Al Khaimah						(7.4)								(7.0)					20.2			(2.7)		(4.8)
	Sharjah						(5.6)			l .	(9.6)				(9.0)									44.5	
									/		/			1	/	32.2			(0.6)					1	,

^{*} PISA adjudicated region.

Notes: Results for the province of Quebec in this table should be treated with caution due to a possible non-response bias.

For Massachusetts and North Carolina, the desired target population covers 15-year-old students in grade 7 or above in public schools only (see Annex A2). Puerto Rico is an unincorporated territory of the United States. As such, PISA results for the United States do not include Puerto Rico.

See Table II.4.1 for national data.

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[Part 2/5]

Table B2.II.20 Responsibilities for school governance

			Pe	rcenta	ge of	tuder	its in s	chool	s whe	re teac	hers	have o	onside	erable	respo	nsibil	ity for	the fo	llowi	ng:			
	Selecting teachers	for hire	Firing teachers	Establishing	salaries	Determining	increases	Formulating the	school budget	Deciding on budget	the school	Establishing student	disciplinary policies	Establishing student	assessment policies	Approving students	for admission to the school	Choosing which	textbooks are used	Determining course	content	Deciding which	courses are offered
	%	S.E.	% S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E
Flemish community*	1 0 5	(2 E)	1.2 (0.0)	0.0	1	0.0		15.0	(2.0)		(2.7)	67.2	(2. a)	00.5	(2.4)	27.2	(2.7)	02.1	(2.2)	02.1	(2, 0)	FO 1	/4
Flemish community	9.5	(2.5)	1.3 (0.9)	0.0	С	0.0	С	15.6 0.0		14.1		1				37.3		92.1	(2.2)		(3.0)	58.1	(4.
French community German-speaking community	0.0	C C	1.1 (1.2) 0.0 c	0.0	c c	0.0	c c		C C	3.6 35.9	(2.2)	81.5	(5.8)		(5.6) (0.5)	0.0	(3.4)	100.0		76.6	(0.5)		(4.
Canada Community	0.0	C	0.0 C	0.0	C	0.0	C	0.0	C	33.3	(0.5)	01.5	(0.5)	00.1	(0.5)	0.0	C	100.0	C	70.0	(0.5)	30.5	(0.
Alberta	22.6	(4.9)	1.7 (1.7)	0.0	С	1.1	(1.0)	15.1	(3.6)	21.8	(4.6)	61.5	(6.5)	67.8	(5.5)	4.2	(2.8)	79.6	(5.2)	51.0	(5.9)	63.3	(5.
British Columbia		(3.1)	0.0 c	2.1	(2.0)	3.6	(2.6)	5.7	(3.5)	22.2	(5.4)	l	(5.7)	78.9	(4.6)	3.2		89.0		66.8	(6.3)	54.2	(6.
Manitoba		(1.9)	0.0 c	5.0	(1.9)	10.0	(1.9)		(1.4)	22.1	(2.6)		(3.5)	59.0	(3.2)		(1.0)	92.6	(2.1)		(2.9)	57.0	(2.
New Brunswick	4.4	(1.3)	0.0 c	0.6	(0.1)	0.6	(0.1)	0.0	С	16.0	(2.2)	62.0	(2.0)	77.6	(2.0)	0.0	С	50.6	(2.7)	37.6	(2.5)	34.4	(2.
Newfoundland and Labrador	0.0	С	0.0 c	3.8	(0.3)	3.8	(0.3)	10.8	(2.2)	28.5	(4.5)	60.4	(2.1)	36.0	(3.4)	0.0	С	15.6	(1.6)	12.4	(2.6)	23.5	(3.
Nova Scotia	4.7	(2.1)	0.0 c	0.0	С	0.0	С	0.0	С	10.0	(1.9)	21.2	(4.1)	24.8	(4.3)	0.4	(0.4)	32.9	(4.5)	26.6	(3.9)	24.9	(4.
Ontario	1.3	(1.1)	0.0 c	0.6	(0.7)	1.9	(1.5)	6.1	(2.6)	22.9	(4.1)	48.1	(5.1)	45.5	(4.5)	1.6	(1.3)	78.4	(4.3)	50.9	(5.2)	51.0	(4.
Prince Edward Island		(3.4)	0.0 c	3.5	(4.9)	0.0	С	16.6	(1.2)	22.2			(2.6)	70.5	(3.1)	0.0	С	6.5			(2.2)	22.6	(2.
Quebec	1	(0.6)	0.0 c	0.0	С	0.0	С	0.4	(0.0)		(2.2)	61.9	(6.3)	54.7	(6.2)		(0.1)		(4.2)		(4.5)	62.0	
Saskatchewan	0.0	С	0.0 c	0.0	С	0.0	С	2.5	(1.4)	19.9	(3.0)	54.7	(4.4)	57.8	(4.0)	3.3	(1.6)	68.8	(3.4)	38.8	(4.1)	50.7	(3.
Italy	1 1 2	(0.4)	0.0	0.2	(0.4)	0.2	(0.1)	0.0		16.2	(0.2)	744	(0. 2s.l	01.0	(O. 2)	15.5	(0.3)	05.0	(0.1)	CC 1	(0.4)	20 =	(0
Bolzano	1.2	(0.1)	0.0 c	0.2	(0.1)	0.2	(0.1)	0.0	С	16.2			(0.3)		(0.3)		(0.3)	95.0 91.1	(0.1)		(0.4)		(0.
Campania Lombardia	0.0	С	0.0 c	0.0	С	0.0	С	0.0	(2.5)	8.4 13.2	(3.0)	26.7	(7.2)	86.6		35.0				81.3	(4.0)	58.4	(7.
Trento	0.0	С	0.0 c		С	0.0	С	2.4							(3.5)		(6.1)						
Portugal	0.0	С	0.0 c	0.0	С	0.0	С	0.0	С	2.2	(0.1)	44.9	(1.0)	95./	(1.4)	30.3	(0.9)	100.0	C	93.3	(1.9)	49./	(1
Região Autónoma dos Açores	0.0	С	0.0 с	0.0	С	0.0	С	0.0	С	8.1	(0.5)	29.1	(0.6)	11 B	(0.5)	8.2	(0.5)	95.8	(0.1)	21.6	(0.5)	53.1	(0
Spain	0.0	-	0.0	0.0	٦	0.0		0.0	-	0.1	(0.5)	25.1	(0.0)	11.0	(0.5)	0.2	(0.5)	33.0	(0.1)	21.0	(0.5)	55.1	(0.
Andalusia •	0.0	С	0.0 с	0.0	С	0.0	С	5.5	(3.2)	5.8	(3.4)	50.8	(5.5)	52.3	(7.6)	1.8	(1.9)	82.8	(5.7)	49.2	(8.1)	23.2	(6
Aragon•	0.0	c	0.0 c	0.0	c	0.0	С	3.8	(2.8)		(4.1)	1	(6.4)	47.8	(4.9)		(2.0)	90.9			(5.2)	21.4	
Asturias*		(2.1)	2.1 (2.1)	0.0	c	0.0	С	7.7	(3.9)		(4.3)	49.5	(6.8)	49.4	(6.6)	0.0	С	89.2			(5.6)	27.7	(5.
Balearic Islands*	0.0	С	0.0 c	0.0	С	0.0	С	0.0	С	7.2	(3.7)	55.6	(7.6)	50.3	(7.3)	0.0	С	88.2	(3.7)	64.7	(6.7)	21.7	(6.
Basque Country*	1.3	(1.2)	0.0 c	0.0	С	0.0	С	6.2	(1.8)	4.7	(2.3)	51.3	(6.0)	74.5	(5.6)	1.8	(1.5)	92.5	(3.1)	77.3	(4.5)	47.0	(5.
Canary Islands*	0.0	С	0.0 c	0.0	С	0.0	С	2.2	(2.1)	5.9	(3.4)	54.9	(5.7)	46.5	(6.1)	2.0	(2.0)	84.7	(4.0)	33.6	(5.6)	17.6	(5
Cantabria*	0.0	С	0.0 c	0.0	С	0.0	С	6.6	(3.3)	6.7	(2.6)	66.8	(5.3)	59.8	(6.5)	0.0	С	90.4	(3.6)	41.2	(5.4)	22.0	(5
Castile and Leon*	0.0	С	0.0 c	0.0	С	0.0	С	2.5	(2.0)	0.0	C	44.8	(6.9)	50.2	(5.3)	0.0	С	93.3		36.1	(6.6)	27.2	(6
Castile-La Mancha•	0.0	С	0.0 c	0.0	С	0.0	С		(1.7)		(3.5)	49.1	(6.2)	55.5	(6.2)	0.0	С	99.0			(6.1)	15.3	(4
Catalonia•		(1.9)	0.0 c	0.0	С	0.0	С	1.8	(1.7)		(3.2)	1	(6.7)	62.1	(7.5)	2.1	(2.1)	93.0			(7.6)	11.8	(4
Comunidad Valenciana*	0.0	С	0.0 c	0.0	С	0.0	С	7.2	(3.7)		(3.3)	56.5	(6.0)	56.7	(7.9)	0.0	С	96.8		61.5	(6.8)	25.3	(6
Extremadura*	0.0	С	0.0 c	0.0	С	0.0	С	0.0	C		(1.6)		(5.2)	46.5	(7.1)	0.0	С	91.0			(7.7)	21.1	(5
Galicia•	0.0	С	0.0 c	0.0	С	0.0	С	1.6	(1.6)	16.5		l	(6.4)	78.7	(5.6)	0.0	С	95.2			(6.8)	33.3	(5
La Rioja•	0.0	С	0.0 c	0.0	С	0.0	C	3.0	(0.1)		(0.1)	45.1	(0.4)	66.7	(0.4)	0.0	C	93.1			(0.4)	12.0	(0
Madrid• Murcia•	0.0	С	0.0 c 0.0 c	0.0	С	0.0	С	6.3 1.8			(4.2)	56.3 40.8	(6.9)	60.4	(7.2)	0.0	С	94.7 90.0		53.6 41.5		33.1	(7
Navarre•		(2.2)	0.0 c 0.0 c	0.0	c c	2.2	(2.2)	0.0	(1.9) c			59.3	(5.5)	63.0	(5.4) (4.8)	0.0	C C				(6.4)	53.1	(6
United Kingdom	2.2	(2.2)	0.0 C	0.0	۱	2.2	(2.2)	0.0	C	1.0	(1.0)	33.3	(3.5)	00.7	(4.0)	0.0	C	05.4	(4.7)	32.3	(3.1)	32.3	(0
England	36.3	(4.2)	1.1 (1.1)	0.0	с	7.4	(2.5)	4.9	(2.1)	12.2	(2.6)	58.0	(4.2)	69.1	(3.8)	15.3	(3.2)	96.2	(1.7)	93.3	(2.2)	81.7	(3
Northern Ireland	1	(4.5)	0.0 c	0.0	c	0.0	(,	1.4		7.8	(3.1)	72.4	(6.2)	83.7	(4.3)	6.5	(3.0)		(0.0)		(2.1)	82.9	(4
Scotland		(4.9)	1.2 (1.3)	0.0	c	0.0	С	0.0	c	13.0	(4.3)	i	(4.9)				(2.9)		(2.9)		(4.1)		(4
Wales	37.6		0.0 c	0.6	(0.6)	4.1	(1.7)	1.4	(1.0)				(4.1)								(2.8)		(3
United States												'											
Massachusetts*	70.4	(6.3)	1.8 (1.9)	1.8	(1.8)	1.8	(1.8)	19.9	(5.4)	39.3	(8.2)	58.9	(8.2)	63.0	(7.1)	2.9	(2.1)	84.2	(5.9)	89.2	(4.7)	73.4	(6
North Carolina*	54.3	(7.0)	2.1 (2.0)	0.0	С	0.0	С	21.6	(6.2)	47.5	(7.3)	63.3	(6.6)	47.3	(6.9)	6.0	(3.4)	52.4	(7.7)	41.3	(7.8)	54.6	(7
Puerto Rico*	0.0	С	0.0 c	0.0	С	0.0	С	1.9	(1.9)	6.2	(3.7)	14.5	(4.9)	46.5	(6.9)	10.1	(4.7)	40.9	(9.0)	25.7	(6.8)	14.9	(4
Colombia																							_
Colombia Bogotá	0.0	اء	0.0 с	0.0	С	1.0	(1.9)	0.0	С	7.1	(4.1)	110	(10.7)	10 1	(7 O)	15.2	(E 7)	72.0	(7.0)	72.0	(8.2)	21.1	(6
Cali		(2.4)	0.0 c 1.6 (1.6)		(1.9)	0.0	(1.9) C		(1.9)				(5.4)								(6.9)		
Manizales		(3.3)	0.0 c	0.0	(1.9) C	0.0	С	0.0	(1.5) C				(3.3)								(4.1)		
Medellín	0.0	(3.3) C	2.5 (2.6)	0.0	c	0.0	С		С				(7.0)								(6.7)		
United Arab Emirates	1 0.0	-	(2.0)	5.0	~	5.5	Ü	5.0	٦	5.5	()		(. 10)		(0)	5.5	()	2 3.0	()		()		
Abu Dhabi*	7.9	(2.9)	3.5 (2.1)	1.0	(1.0)	2.7	(1.9)	6.9	(2.9)	8.1	(3.0)	32.6	(4.3)	32.6	(4.5)	16.7	(3.5)	28.0	(2.5)	29.1	(2.7)	17.6	(
Ajman	5.1		0.0 c	0.0	С С	0.0	C		(4.6)				(4.8)				(0.9)			17.2		9.9	
Dubai*	15.3		2.2 (0.0)	0.0	c				(0.1)				(0.2)				(0.2)			53.9		43.1	
Fujairah	0.0	С	0.0 c	0.0	С	0.0	С	0.0	C	0.0		19.1				0.0	C		(3.1)		(0.3)	2.2	
Ras Al Khaimah	8.2		0.0 c	0.0	С	0.0	c		(6.6)				(7.6)				(3.0)				(5.5)		
Sharjah	4.6		4.4 (4.3)	0.0	С	0.0	С		(7.3)				(11.1)				(4.2)				(8.5)		
Umm Al Quwain		(0.4)	0.0 c	0.0	С	0.0	С		(0.1)		(0.1)		(0.4)				(0.4)		(0.2)			6.7	

^{*} PISA adjudicated region.

Notes: Results for the province of Quebec in this table should be treated with caution due to a possible non-response bias.

For Massachusetts and North Carolina, the desired target population covers 15-year-old students in grade 7 or above in public schools only (see Annex A2). Puerto Rico is an unincorporated territory of the United States. As such, PISA results for the United States do not include Puerto Rico.

See Table II.4.1 for national data.

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[Part 3/5]

Table B2.II.20 Responsibilities for school governance

Res	ults based on school principa	is' re	ports		entag	e of st	udent	s in scl	nools	where	a sch	ool go	vernii	ng boa	ırd has	cons	ideral	ole res	ponsib	oility fo	r the	follov	ving:		
		_	for hire	_	riring teachers					_	school budget	Deciding on budget		Establishing	_		assessment policies	Approving stu	the school	Choosing	textbooks are used	Determining course		Deciding w	courses are offered
	Belgium	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
OECD	Flemish community*	15.8	(3.0)	50.9	(4.3)	0.9	(0.7)	1.4	(0.9)	55.6	(3.9)	44.7	(3.9)	15.0	(2.6)	8.9	(2.5)	4.6	(1.6)	0.4	(0.4)	2.1	(1.1)	18.4	(3.0)
0	French community	26.9	(4.4)	1	(4.6)	0.0	С	0.0	С	22.5	(4.4)			60.1	(5.0)	56.3	(5.1)	1	(5.6)	29.9	(4.9)		(2.9)		(4.8)
	German-speaking community	70.4	(0.5)	26.3	(0.5)	0.0	С	0.0	С	50.4	(0.5)	89.2	(0.3)	87.7	(0.3)	84.0	(0.3)	89.2	(0.3)	59.5	(0.5)	45.7	(0.5)	89.2	(0.3)
	Canada																								
	Alberta	6.5		1	(3.9)		(4.7)		(4.9)	l .	(4.6)			15.7	(4.4)	17.3	(4.1)		(2.7)		(3.5)		(1.3)		(4.0)
	British Columbia Manitoba	7.1	(3.7)	23.8 39.6	(6.1)	14.8 51.4	(3.8)	10.6 52.9	(2.4)	26.7 52.2	(6.2) (2.7)	10.7		10.7 33.7	(4.5)	4.2 32.0	(2.7)	10.4	(4.4)		(1.8)		(2.1)	0.8	
	New Brunswick	9.8	(1.4)	6.0	(2.4)		(1.0)		(1.0)	2.6			(0.5)	8.7	(0.6)	6.1	(0.5)	0.0	(1.9) C		(0.1)	0.0	(1.3) C	0.5	
	Newfoundland and Labrador	0.0	(,	0.0	(2.1.) C	1.4	(1.4)	1.4	(1.4)	7.2	(2.2)	10.5		13.8	(1.9)	16.2	(0.8)	0.0	c	0.0	C	0.0	С	0.0	(O.5)
	Nova Scotia	6.5	(3.4)	9.5	(4.0)		(0.4)	0.4	(0.4)	5.1			(2.2)		(3.1)	3.7	(2.2)	0.8		0.0	С	0.0	С	0.4	
	Ontario	3.0	(1.6)	3.2	(1.7)	4.3	(2.1)	5.5	(2.4)	10.7	(3.4)	2.8	(1.6)	21.0	(4.0)	12.9	(3.1)	4.7	(2.1)	4.1	(1.9)	2.0	(1.3)	3.4	(1.6)
	Prince Edward Island	0.0	C	13.7	(0.9)	0.0	C	0.0	C	0.0	С	0.0	C	0.9	(0.9)	0.0	C	0.0	С	0.0	С	0.0	C	0.0	C
	Quebec	3.2	(2.2)	5.7	(3.1)	i	(2.1)	1.8	(2.1)	13.8	(4.3)			46.4		23.2	(5.7)	6.3			(4.7)	3.3	(2.1)	31.9	
	Saskatchewan	12.5	(3.8)	14.4	(2.9)	6.4	(2.1)	4.9	(1.5)	26.0	(2.9)	7.3	(2.3)	10.8	(3.4)	20.1	(4.1)	5.1	(1.9)	5.2	(2.3)	2.9	(1.1)	6.3	(2.3)
	Italy Bolzano	0.0	С	0.0	С	0.0	С	0.0	С	2.1	(0.0)	73.8	(0.4)	49.5	(0.4)	17.3	(0.3)	72	(0.2)	3.9	(0.2)	2.2	(0.1)	29.8	(0.4)
	Campania	0.0	c	0.4	(0.4)	0.0	c	0.0	c	12.7	(4.6)		(5.8)		(3.9)	6.6	(3.6)				(2.6)		(1.7)	51.9	
	Lombardia	0.0	С	0.0	C	0.0	С	0.0	С	22.5	(5.7)			86.2	(3.8)	8.1	(4.1)	l	(7.2)	13.3			(2.9)		(7.5)
	Trento	0.0	С	0.9	(0.0)	3.5	(0.2)	3.5	(0.2)	5.4	(0.3)	58.5	(1.7)	74.5	(0.8)	16.8	(1.3)	10.1	(1.4)	11.2	(0.4)	11.0	(1.3)	37.1	(1.1)
	Portugal																								
	Região Autónoma dos Açores	2.5	(0.1)	3.0	(0.1)	0.8	(0.0)	0.8	(0.0)	78.3	(0.4)	88.9	(0.5)	82.6	(0.2)	61.7	(0.5)	78.5	(0.2)	4.8	(0.2)	11.1	(0.3)	76.9	(0.2)
	Spain Andalusia ** ** ** ** ** ** ** ** **	3.6	(0.1)	1 0	(1.8)	0.0		0.0		41.0	(6.2)	65.0	(Δ Q)	57.4	(6.5)	22.7	(6.1)	31.2	(7.1)	25.7	(4 O)	6.1	(3.7)	22.2	(6.3)
	Aragon•	5.8		1	(3.3)	0.0	C C	0.0	C C	26.5	(5.8)	40.0		1	(5.8)	9.9	(4.4)	25.1	(5.1)	13.2			(2.2)		
	Asturias*	3.0	(2.2)		(1.9)	0.0	c	0.0	c	31.5	(6.8)	35.7			(6.5)	7.5	(3.9)	21.5		18.0			(3.0)		
	Balearic Islands*	2.6	(1.9)	1.1	(1.1)	0.0	С	0.0	С	29.5	(6.5)	39.0	(6.7)	52.1	(6.8)	9.0	(4.1)	11.6	(4.8)	12.7	(4.0)	3.8	(2.8)	14.2	(5.5)
	Basque Country*	6.9	(2.6)	7.7	(2.8)	2.7	(1.7)	2.7	(1.7)	33.5	(5.1)	41.3			(5.6)	15.5	(4.3)	22.9	(5.1)	8.7		1.0	(0.7)	24.2	(4.9)
	Canary Islands*	3.2	(2.3)	5.1		0.0	С	0.0	С	65.8	(6.3)	77.7			(5.3)	21.1	(5.5)	41.3		47.3			(3.5)		(7.1)
	Cantabria •	4.2	(2.5)		(2.2)	0.0	C	0.0	C	52.9	(5.5)			67.0			(4.4)	32.0		11.5			(1.8)		
	Castile and Leon* Castile-La Mancha*	7.1	(2.3)	7.1	(2.3)	0.0	C C	0.0	C C	31.3 43.1	(4.9)	35.7	(6.0)	1	(6.9) (5.0)	6.1 11.2	(3.5)	20.8	(5.7)	15.0	(2.0)		(2.0)	11.2 15.7	
	Catalonia•	3.0	(0.7)	3.0	(0.7)	0.0	С	0.0	С	21.0	(6.0)	39.4			(6.1)	3.8	(0.3)	7.8			(3.2)	0.0	(2.5) C	11.7	
	Comunidad Valenciana*	5.6	(3.1)		(2.2)	0.0	С	0.0	С	49.2	(6.4)	59.1	(7.1)	1	(6.8)	13.0	(5.1)	37.1	(7.0)	17.5			(3.2)	27.2	
	Extremadura*	2.9	(2.1)	3.0	(2.2)	0.0	С	0.0	С	50.2	(7.5)	61.6	(6.7)	67.6	(6.5)	8.4	(3.9)	27.7	(6.3)	11.3	(3.7)	3.7	(2.7)	30.3	(6.5)
	Galicia•	6.1	(3.2)	7.7	(3.1)	0.0	C	0.0	C	1	(5.9)	64.6		1	(6.6)	9.7	(4.1)	51.7			(2.6)		(1.8)	25.9	
	La Rioja*	4.6	(0.1)	4.6	(0.1)	0.0	C	0.0	C	39.2	(0.4)				(0.4)	5.4	(0.2)	6.3	(0.1)		(0.2)	2.6	(0.1)	2.3	(0.1)
	Madrid* Murcia*	3.7 9.0	(2.7)	9.0	(3.5)	0.0	С	0.0	C	23.7	(4.3)	37.5 44.9	(6.2)	63.6	(6.4)	8.0 7.7	(4.3)	18.8	(5.6) (4.5)	18.3 7.1		0.0	(1.9)	16.7	(5.6)
	Navarre•	8.3	(4.2)	6.1	(3.6)		(2.2)	4.3	(3.1)	32.2	(5.9)			52.8	(5.4)	3.1	(2.2)			11.7	(3.6)	0.0	C C		(4.9)
	United Kingdom	0.0	(112)				(=)				(0.10)		(0.0)	02.0	(611)		(=-=)		(010)		(0.10)				(=10)
	England	48.4	(4.1)	71.6	(3.6)	51.5	(3.9)	78.4	(3.4)	74.7	(3.7)	44.7	(4.5)	53.7	(4.3)	37.3	(4.0)	35.5	(3.9)	1.1	(1.1)	1.1	(1.1)	29.6	(3.7)
	Northern Ireland	93.0	(2.6)	85.1	(4.3)	27.4	(6.0)	52.6	(6.2)	54.7				66.3		50.7	(6.2)	85.1	(4.9)		(1.5)	0.0	С	50.2	
	Scotland	22.9	(4.8)	1	(1.1)		(0.9)		(1.3)	4.6	(0.9)			20.6	(4.6)	10.2	(3.4)	0.0	C (2, 2)		(1.2)		(1.2)	7.0	
	Wales United States	77.6	(3.5)	87.0	(2.9)	68.6	(3.4)	84.2	(3.2)	/3.5	(3.5)	65.5	(3.9)	75.5	(3.4)	52.1	(3.8)	29.7	(3.3)	0.9	(0.8)	4.1	(1.8)	44.5	(4.3)
	Massachusetts*	7.0	(4.1)	7.4	(2.5)	58.8	(8.2)	60.7	(8.2)	59.2	(8.3)	42.4	(8.0)	64.1	(6.8)	46.5	(7.1)	32.2	(6.3)	43.9	(7.3)	31.1	(6.2)	52.6	(6.9)
	North Carolina®							7.8											(5.8)						
	Puerto Rico*	1.2	(1.7)	5.3	(3.3)	1.2	(1.7)	1.2	(1.7)	35.9	(8.3)	47.7	(8.4)	16.6	(5.5)	3.2	(2.3)	11.6	(6.9)	0.0	С	0.0	С	2.7	(2.0)
S	Colombia						_																		
Partners	Bogotá	7.6	(2.1)	5.0	(3.7)	5.0	(3.7)	5.0	(3.7)	18.1	(5.2)	58.6	(7.0)	88.8	(5.2)	68.7	(5.7)	18.6	(3.9)	38.6	(5.5)	49.9	(6.1)	40.6	(7.5)
Part	Cali		(3.6)	1	(4.6)		(2.6)	1		46.2								l	(7.1)						
_	Manizales	0.0	С	1	(2.0)	0.0	С	0.0	С	29.6	(4.3)	53.5	(4.2)	93.8	(1.6)	70.5	(4.6)	33.4	(4.5)	25.4	(3.5)	32.0	(5.0)	37.0	(3.5)
	Medellín	4.2	(3.0)	6.9	(1.9)	1.9	(1.9)	4.2	(3.0)	27.6	(5.5)	69.3	(6.6)	94.8	(3.0)	85.8	(5.4)	51.9	(6.9)	55.7	(5.8)	60.0	(7.0)	67.4	(6.2)
	United Arab Emirates	124-	(2.0	127 -	/4 O	20.2	(2.0)	12.0	(2.0)	12.0	(4.3)	20.0	(4.2)	10.1	(2.0)	12.4	(4.4)	= 0	(2.4)	2.0	(2 o.l	4.1	(2.0)	0.0	(2.0)
	Abu Dhabi* Ajman			27.7 30.1				42.6 42.4						16.1 15.9	(3.8)			1	(3.1)		(2.0)		(2.0)		(2.8)
	Ajman Dubai•			45.4				73.9										l	(0.2)						(0.2)
	Fujairah	0.0	(0.2) C	1	(4.5)	0.0	(O.1)		(O.1)		(2.5)			19.8			(1.1)		(0.4)	0.0	(O.1)	0.0	(O.1)	0.0	(O.2)
	Ras Al Khaimah	1		12.7				16.0		i .				13.6		13.6			(0.4)		(1.7)		(1.7)		(4.8)
	Sharjah			11.2				46.2			(8.0)			12.5			(4.0)	i .	(8.5)		(5.5)				(7.6)
	Umm Al Quwain	5.8	(0.5)	19.2	(0.4)	19.2	(0.4)	19.2	(0.4)	16.2	(0.4)	16.2	(0.4)	10.2	(0.5)	3.0	(0.3)	9.6	(0.4)	3.0	(0.3)	3.0	(0.3)	12.0	(0.3)

^{*} PISA adjudicated region.

Notes: Results for the province of Quebec in this table should be treated with caution due to a possible non-response bias.

For Massachusetts and North Carolina, the desired target population covers 15-year-old students in grade 7 or above in public schools only (see Annex A2). Puerto Rico is an unincorporated territory of the United States. As such, PISA results for the United States do not include Puerto Rico.

See Table II.4.1 for national data.

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[Part 4/5]

Table B2.II.20 Responsibilities for school governance

Nes	ults based on school principa				of stu	dents	in sch	ools w	here l	local o	or regi	onal e	ducati	ion au	thorit	ies hav	e cor	sidera	able re	sponsi	bility	for th	e follo	wing:	
		Selecting teachers	for hire		riring teachers	Establishing	teachers starting salaries	Determining	increases	Formulating the	school budget	Deciding on budget	the school	Establishing student	disciplinary policies	Establishing student		str	tor admission to the school	Choosing which	textbooks are used	Determining course	content	Deciding which	courses are offered
_	21.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
OECD	Belgium Flemish community	1.3	(0.8)	1.1	(0.7)	0.6	(0.4)	0.6	(0.4)	22	(1.0)	1.5	(0.8)	1.3	(1.3)	1.8	(1.1)	1.5	(1.1)	0.0	С	71	(2.3)	6.1	(1.9)
OF	French community	37.6			(5.5)	1	(3.1)			57.8		l		36.4		30.5			(3.5)	1		27.7		1	(5.9)
	German-speaking community	59.5		59.3		29.5				49.5		0.0		15.9		41.0			(0.5)				(0.5)	1	
	Canada																								
	Alberta	34.4			(5.7)	1	(6.3)			63.8		l		49.5		54.4	(4.9)		(5.4)	1		26.3			(4.7)
	British Columbia	46.0	(6.4)	61.9	(7.2)	26.7	(5.5)	19.7	(4.1)		(7.2)	21.2	(6.0)	38.5		33.8	(6.2)	l		1				20.0	
	Manitoba New Brunswick	35.9 89.7	(2.8)		(3.1)	1	(3.1)	57.5 2.5	(3.5)	82.3	(2.7)	l	(2.5)	53.3 45.7	(2.7)	58.3 62.1	(3.0)	l	(2.7)	31.1		10.9	(2.2)		(2.3)
	Newfoundland and Labrador	85.7	(1.5)	89.6		1	(1.0)	4.7	(0.1)	72.3	(3.8)	l	(1.7)	63.4	(2.1)	93.1	(1.5)		(2.8)			18.0		40.7	(2.5)
	Nova Scotia	59.9		84.5	(4.8)	1	(1.0)	5.9	(1.1)			l		58.3		78.6	(5.5)	i	(5.9)	ı		18.9		45.6	(4.8)
	Ontario	56.1	(5.2)	85.3	(3.3)	1	(5.5)	61.5	(5.4)		(5.0)	l	(4.6)	77.1	(4.8)	78.7	(4.4)	l		40.6				i	
	Prince Edward Island	56.5	(3.2)	94.9	(2.0)	2.9	(2.9)	3.5	(4.9)	97.0	(2.2)	32.6	(3.2)	80.3	(5.0)	93.9	(2.1)	57.3	(2.5)	24.6	(4.5)	19.5	(3.0)	35.2	(2.6)
	Quebec	1			(4.5)	1	(3.4)	1				l	(4.8)	3.8		25.6				1			(3.7)	1	
	Saskatchewan	60.8	(4.1)	81.4	(3.6)	3.7	(2.2)	3.0	(1.6)	69.8	(2.4)	18.3	(3.0)	47.8	(3.4)	70.4	(3.9)	34.4	(3.4)	49.3	(4.7)	14.2	(2.7)	42.0	(3.7)
	Italy	88.6	(0.2)	89.3	(0.2)	QF 1	(0.2)	70.7	(0.4)	02.7	(0.1)	1F 0	(0.5)	0.7	(0.0)	25.8	(0.4)	21.0	(0.4)	0.0		E7 4	(0.4)	74.9	(0.4)
	Bolzano Campania	32.9	(6.4)			1	(2.6)	1	(1.9)		(4.4)	0.0	(U.3)	0.0	(U.U)	2.8	(2.4)	2.3			(2.4)		(U.4) C		(4.2)
	Lombardia	1		31.3		1	(2.7)		(3.2)		(3.7)	l	(2.5)	0.0	C	0.0	(2. 1)	l	(2.9)	1	(2.5)		(2.2)		
	Trento					1					(1.8)	15.6			С	15.3	(0.9)	l	(0.5)	0.0			(1.3)	l	
	Portugal							'				'						'							
	Região Autónoma dos Açores	86.5	(0.2)	95.6	(0.1)	66.7	(0.6)	65.0	(0.6)	54.9	(0.4)	7.5	(0.2)	59.7	(0.4)	74.2	(0.6)	25.2	(0.2)	1.9	(0.1)	71.4	(0.6)	69.5	(0.5)
	Spain																								
	Andalusia •	69.7		71.5		1				16.1		l	(3.2)			51.9	(6.6)		(6.4)	1	(3.3)	63.8		1	(5.4)
	Aragon• Asturias•	64.4		66.9	(2.2)		(4.1) (5.5)		(4.7)		(7.2) (5.5)		(3.2)	1.8 23.1		47.2 67.9	(8.0)	l	(6.0) (5.8)	0.0	(2.7)		(7.6)	62.3 76.1	(7.2) (5.8)
	Balearic Islands*	61.7	(0.5)			89.0		1	(4.6)	41.0		l		21.8	(6.3)	63.9	(6.0)		(5.4)	0.0	(3.7)		(4.3)	61.9	(5.8)
	Basque Country*	50.5		48.5	(3.3)	1	(3.9)	l		20.1		l		27.6	(5.1)	42.9	(5.9)		(5.0)		(1.6)			44.7	(4.7)
	Canary Islands*	71.9		71.9	(3.0)	i	(5.0)	i				i	(3.1)			57.2		i	(5.4)	1	(3.3)		(5.2)	1	(4.6)
	Cantabria*	69.1	(2.1)	69.1	(2.1)	87.5	(3.6)	85.8	(4.0)	11.4	(3.7)	1.8	(1.8)	10.6	(3.8)	49.4	(5.7)	80.7	(5.4)	1.9	(1.9)	74.6	(5.9)	70.5	(5.4)
	Castile and Leon*	58.5		56.4	(4.6)	1	(4.5)	85.0	(5.3)			l	(3.7)	19.0	(4.4)	48.6	(6.8)	67.7		l .	(4.3)	84.2		56.5	(8.2)
	Castile-La Mancha*	82.8		80.9		1	(4.1)	ł		23.7		l	(3.1)	3.7	(2.7)	54.1	(6.5)	l	(3.6)	1	(0.7)	84.2		l	(4.9)
	Catalonia* Comunidad Valenciana*	56.8 66.9	(3.2)	52.7 66.9	(4.2)	ı	(4.0)	85.6 93.7	(4.4)	12.6	(5.7)	17.4	(3.0)	9.1 26.8	(3.9)	46.6 56.1	(6.9) (7.0)	85.7 65.3		0.0	(2.1)		(7.7)	68.3 51.3	(5.4) (7.1)
	Extremadura•	80.3		78.3	(3.2)	1	(3.2)	90.6	(3.2)			l	(1.5)	13.8	(3.1)	56.1		68.7		0.0	c		(6.4)	l	
	Galicia•	71.6		73.6		1	(3.0)	1	(3.2)			l	(2.1)	24.9		31.7	(7.0)	l		1	(3.4)			50.9	(6.6)
	La Rioja•	59.7	(0.2)	59.7	(0.2)	1	(0.3)	1		25.9		l	(0.1)			50.7	(0.4)	l		0.0	С	74.7	(0.4)	75.5	(0.3)
	Madrid*	51.6	(2.7)	51.6	(2.7)	85.2	(5.4)	80.5	(5.6)	21.4	(4.9)	3.5	(2.6)	24.1	(7.1)	37.0			(7.5)	4.0	(3.9)	67.6	(7.7)	52.7	(7.2)
	Murcia*	72.5			(0.5)	92.6		1		20.5		12.7	(4.1)	23.2	(6.2)	47.3	(6.9)			3.7		77.0	(4.9)	54.7	(6.3)
	Navarre*	60.8	(1.1)	60.8	(1.1)	96.0	(2.8)	91.7	(4.2)	29.7	(4.1)	12.1	(2.1)	26.6	(5.0)	53.0	(6.1)	75.2	(4.0)	20.2	(4.6)	80.2	(2.9)	56.4	(3.9)
	United Kingdom England	1.3	(0.9)	8.1	(2.4)	9.3	(2.4)	6.7	(2.1)	11.6	(2.6)	0.8	(0.7)	4.8	(2.0)	3.6	(1.7)	380	(3.8)	0.0	c	0.8	(0.7)	0.8	(0.7)
	Northern Ireland	10.9	(3.5)	31.2		11.5		1		28.9		l	(1.8)	2.4	(1.5)	3.3	(2.0)	l	(5.7)	0.0	C		(1.7)	0.0	(U.7)
	Scotland	32.3	(5.7)		(4.4)	1	(3.8)	1	(3.7)		(3.4)		(4.9)	28.9	(5.6)	36.7	(5.9)		(5.7)	1	(2.1)		(4.1)	l	(4.6)
	Wales	5.6	(1.8)	32.7	(3.9)	32.9	(3.8)	18.8	(3.2)	41.4	(4.1)	6.9			(2.0)	3.1	(1.6)	45.7	(3.9)	2.5	(1.0)	1.5	(0.6)	5.2	(2.1)
	United States																								
	Massachusetts*										(7.4)								(6.0)				(5.8)		(5.1)
	North Carolina* Puerto Rico*											0.0								83.0 68.7					
	ruento Rico	70.2	(4.0)	04.3	(3.0)	04.3	(3.0)	04.3	(3.0)	37.0	(7.4)	0.0	C	33.9	(7.0)	33.1	(0.7)	3.0	(3.6)	00.7	(7.0)	/4.4	(6.0)	/ 5.1	(4.3)
STS	Colombia																								
Partners	Bogotá	1		47.7		1		1				l							(4.6)	1	(3.9)		(4.1)	i	
Pa	Cali			40.5								l	(1.7)		(1.7)				(3.7)	1	(2.7)		(4.2)	1	(3.6)
	Manizales Medellín			74.0 64.2															(3.6)	1			(3.1)	1	
	United Arab Emirates	1 00.7	(7.7)	04.2	(3.4)	19.9	(0./)	11.0	(0.0)	13.3	(7.7)	0.9	(3.1)	4.5	(0.0)	14.4	(3.4)	0.0	(3.9)	ا.د	(2.3)	10.9	(+.5)	22.3	(0.5)
	Abu Dhabi*	46.2	(4.8)	42.2	(4.7)	28.2	(4.2)	26.3	(4.2)	33.0	(4.0)	26.2	(4.0)	49.1	(4.6)	44.0	(3.9)	47.5	(4.8)	36.5	(4.3)	42.2	(3.8)	43.2	(4.5)
	Ajman			26.9		1		1		11.1		1		27.3		19.9		l					(0.9)	l	
	Dubai*			18.7		1	(0.1)			9.1		l		16.0				l	(0.1)	l .			(0.2)	l	(0.1)
	Fujairah			23.1		1		1				l		23.1					(3.1)	1		13.7		1	(4.7)
	Ras Al Khaimah		(3.6)	7.6		10.2													(8.8)	l .			(6.1)	l	(6.0)
	Sharjah Umm Al Quwain			20.6		1	(3.5) C	ł			(4.2)								(9.1)	0.0		12.7	(0.4)	1	(4.6)
_	Cilili / ii Quwafii	121.0	(0.5)	141.0	(0.5)	0.0		0.0		14/.3	(0.4)	1 41.3	(0.4)	2.4	(0.4)	47.3	(0.4)	55.5	(0.0)	0.0	L	47.3	(0.4)	20.4	(0.0)

^{*} PISA adjudicated region.

Notes: Results for the province of Quebec in this table should be treated with caution due to a possible non-response bias.

For Massachusetts and North Carolina, the desired target population covers 15-year-old students in grade 7 or above in public schools only (see Annex A2). Puerto Rico is an unincorporated territory of the United States. As such, PISA results for the United States do not include Puerto Rico.

See Table II.4.1 for national data.

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[Part 5/5]

Table B2.II.20 Responsibilities for school governance

Kes	ults based on school principa	is' re			age o	stude	ents in	schoo	ols wh	ere na	itional	educa	ation a	uthor	rities h	ave co	onside	erable	respoi	nsibilit	ty for	the fo	llowin	g:	
		_	for hire	_	riring teachers	Establishing				-	school budget	Deciding on budget		Establishing		Establishing student		Approving stu	for admission to	<u> </u>	textbooks	Determining course	content		courses are offered
	Belgium	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
OECD	Flemish community*	3.3	(1.4)	5.3	(1.9)	91.5	(2.3)	92.3	(2.1)	1.2	(0.9)	2.7	(1.4)	2.7	(1.3)	6.2	(2.0)	19.7	(3.1)	0.0	С	33.2	(3.9)	31.7	(3.5)
0	French community	18.6			(4.6)			88.8					(2.6)			20.8		1	(4.2)		(2.1)	l .	(5.2)		(4.9)
	German-speaking community Canada	27.6	(0.5)	47.6	(0.5)	86.3	(0.5)	86.3	(0.5)	40.0	(0.6)	6.6	(0.2)	21.0	(0.6)	34.2	(0.5)	1.4	(0.1)	22.5	(0.5)	79.3	(0.5)	30.3	(0.4)
	Alberta		(1.5)		(4.1)			74.7	(5.0)		(3.9)				(3.8)	32.4	(4.3)		(2.8)		(4.8)	l .	(4.5)	35.5	(4.6)
	British Columbia	3.8	(2.5)	25.1	(5.6)		(5.1)		(4.1)	1	(6.1)	2.2	(2.2)	7.7		22.8	(4.6)	4.3	(3.0)	28.7	(6.1)			16.9	
	Manitoba Nove Brungwick	0.0	С	12.8	(2.3)			13.2	(2.2)	20.7			(1.4)	21.4		40.1		11.9			(2.5)	77.7			(2.5)
	New Brunswick Newfoundland and Labrador	0.0	(2.0)	27.2	(2.4)	95.1	(0.1)	96.3 97.5	(0.2)	36.1 38.0	(3.6)	7.4	(0.4)	8.3 13.8		28.3 14.3	(2.5)	22.0	(1.6)	69.4 90.1	(2.0)	89.5	(0.6)	42.9	(2.1)
	Nova Scotia	3.7	(0.3)	14.0	(2.8)		(2.4)	89.1	(2.7)	1	(4.3)		(2.7)	76.0		l	(6.2)		(3.1)		(3.6)			57.0	
	Ontario	2.3	(1.7)	8.7	(2.7)		(5.5)	68.7	(4.8)	16.2		l	(1.8)	33.7	(4.7)	62.8		10.9			(5.0)	84.7		25.4	
	Prince Edward Island	0.0	С	10.7	(0.8)		(2.0)	97.9	(2.0)	1	(4.4)	l	(1.0)	11.3	(1.0)	i	(2.6)		(1.2)	97.9	(2.0)	l .			(3.9)
	Quebec	0.0	С	0.0	С	70.7	(4.8)	74.1	(4.3)	7.7	(2.9)	2.1	(1.8)	2.3	(1.8)	31.5	(6.3)	5.5	(1.9)	10.5	(3.1)	53.8	(6.0)	32.2	(6.1)
	Saskatchewan	0.0	С	23.5	(3.3)	93.7	(2.2)	95.7	(1.6)	21.9	(2.8)	1.9	(0.2)	7.4	(2.1)	23.7	(3.5)	9.8	(3.2)	36.5	(4.1)	92.6	(1.7)	29.8	(3.9)
	Italy																	1 .							
	Bolzano	1.7		7.2	(0.2)	1		29.2	(0.3)				(0.2)	0.7		12.2	(0.2)	9.9		0.0	C				
	Campania	67.4	(6.0)	67.1	(5.6)		(3.0)	91.5	(3.2)		(6.0)		(3.6)	0.0	С	4.7	(3.2)	0.0	C	0.0	C				
	Lombardia Trento	66.3	(0.3)	1.3	(6.4)	26.9		80.3	(4.1)	66.9	(6.1) C		(3.7) C	0.0	C C	3.4 0.0	(2.2)	0.0	C C	0.0	C C		(5.6)		(6.5)
	Portugal	7.7	(0.5)	1.5	(0.0)	20.5	(0.5)	24.4	(0.5)	0.0	C	0.0	·	0.0	C	0.0	С	0.0	·	0.0	C	0.5	(0.3)	7.4	(0.3)
	Região Autónoma dos Açores	0.0	С	0.0	С	31.1	(0.6)	27.1	(0.5)	0.0	С	0.0	С	6.8	(0.1)	7.6	(0.2)	3.3	(0.1)	1.3	(0.2)	63.2	(0.3)	0.4	(0.0)
	Spain											'												'	
	Andalusia•	8.6	(3.9)	8.6	(3.9)	25.2	(6.7)	23.5	(6.5)	8.0	(3.7)	4.3	(2.6)	6.1	(3.5)	13.6	(5.0)	9.7	(3.9)	2.2	(1.6)	31.8	(6.0)	21.2	(4.7)
	Aragon•	3.4	(2.5)	3.4	(2.5)	17.5	(5.1)	22.2	(6.0)	0.0	С	0.0	C	1.6	(1.5)	20.4	(5.7)	9.3	(2.8)	0.0	C	36.2	(6.8)	11.8	(4.7)
	Asturias*	0.0	C	0.0	C	i	(5.1)	ı	(5.2)	0.0	С	0.0	C	5.9		20.6			(1.0)		(2.1)	i .			(5.8)
	Balearic Islands	0.0	C	0.0	C		(5.1)	l .	(4.3)	1.7		0.0	С	2.1		l		3.8		0.0	C	17.0		7.0	
	Basque Country • Canary Islands •	0.0	(2.9)	0.0 4.8	(2.9)		(1.9)	5.2	(2.5)	0.0	(2.5)	0.0	C C	1.4		i	(3.2)	1	(1.3)	0.0	(1.3) c	12.4 31.3		14.2 18.7	
	Cantabria •	0.0	(2.9) C	0.0	(2.9) C		(4.0)	14.3	(4.3)	1.9	(0.1)	1.8	(1.8)	1.8		l	(4.7)	0.8		0.0	C	36.4		6.0	
	Castile and Leon*	9.6		9.6	(4.2)	13.1	(4.9)	13.1	(4.9)	1		3.5	(2.6)	2.2		l	(5.4)		(2.6)	0.0	С	23.5		16.9	
	Castile-La Mancha*	5.9	(3.4)	l	(3.4)	l	(5.7)	27.8	(5.6)	0.0	С	0.0	С	0.0	С	l	(6.4)		(3.6)	0.0	С	37.4			(5.2)
	Catalonia*	3.7	(2.6)	3.7	(2.6)	16.9	(5.0)	16.9	(5.0)	0.0	С	2.0	(2.1)	2.1	(2.0)	11.1	(4.5)	3.7	(2.6)	0.0	C	9.4	(4.2)	7.8	(3.9)
	Comunidad Valenciana*	2.6	(2.2)	2.6	(2.2)	14.0	(5.2)	16.3	(5.6)	0.0	C	0.0	C	0.0	C	10.4	(4.7)	0.0	С	0.0	C	18.5	(5.4)	2.2	(2.1)
	Extremadura •	4.1	(0.1)	4.1				16.0	(4.5)	2.1	(2.0)	0.0	C	2.1	(1.9)	l	(4.1)	1	(2.3)	0.0	C	25.6		i .	(4.4)
	Galicia•	1.9	(2.0)	1.9	(2.0)		(3.5)	8.0	(3.7)	0.0	C	0.0	C	1.9		1	(3.8)		(1.9)	2.8	(2.1)	22.4		12.3	
	La Rioja • Madrid •	0.0	(2.1)	0.0	(2.1)		(0.4)	15.5	(0.4)	0.0	C	0.0	C	4.5	(0.1)	7.7	(0.2)	1.0		0.0	С	22.1	(0.3)	5.2	
	Murcia •	2.1	(2.1)	2.1	(2.1)	15.8	(4.7)	16.9 15.7	(4.9)	0.0	(1.1)	0.0	C C	7.7 0.0	(4.7) C	12.6 8.8	(4.9) (4.1)	2.5	(3.3)	0.0	c c	16.9	(6.9) (4.5)	8.1	(4.8)
	Navarre•	0.9		0.9	(1.0)			6.6	(3.4)	0.0	(1.1) C	0.0	c	3.9		13.8		0.0	(U.4)	2.1	(0.1)				(4.0)
	United Kingdom		()				(() ,
	England	0.0	С	1.4	(1.0)	8.9	(2.6)	3.6	(1.5)	8.5	(2.2)	0.3	(0.3)	2.9	(1.3)	5.8	(1.8)	4.7	(1.8)	1.2	(1.1)	15.0	(3.4)	6.9	(2.3)
	Northern Ireland	2.6	(1.8)	28.7	(5.1)		(4.1)	1	(4.0)		(6.3)	1	(2.4)	2.8		8.2	(3.0)	22.0		2.9	(2.2)	1		12.9	(4.0)
	Scotland	0.0	С	21.5	(4.5)	80.7		82.7	(3.7)		(3.3)	0.0	С	5.0		25.8			(1.8)		(1.4)		(5.5)	11.6	
	Wales	1.1	(1.1)	3.8	(1.9)	23.3	(3.5)	10.0	(2.6)	3.7	(1.7)	0.7	(0.7)	2.7	(1.6)	5.6	(2.1)	1.7	(0.8)	1.1	(1.1)	23.3	(3.6)	13.4	(2.9)
	United States Massachusetts*	0.0		0.0		0.0		0.0		5.1	(3.7)	0.0		2.1	(2.1)	16	(3.3)	2.0	(2.9)	0.0		12	(3.0)	2.2	(2.2)
	North Carolina*	0.0	C C	0.0	C C		(3.5)		(2.7)	11.7			C C		(2.1)				(3.0)	0.0	C	1	(5.5)		(4.4)
	Puerto Rico*	0.0	c	l	С	1	(3.5) C	1	(2.,,		(2.7)		С			l .	(J.,)		(3.0) C			l .	(3.4)		(2.7)
_											/										,		/		,
ers	Colombia	Lea	(2.2)	4.0	(2.4)		(7.0)	l co =	(6.4)	26.1	(7.0)	2.6	(2.0)	c	(2.0)	1	(F. 2)	1 2.6	(2.0)		(2.7)		(6.7)	1120	(4.4)
Partners	Bogotá Cali		(3.2)			40.6				36.1	(2.9)	0.0	(2.9) C		(3.8)			0.0	(2.9) C			16.8	(6.7)		(4.4) (4.8)
P	Manizales	1				77.1					(3.6)		(2.0)		(3.7)	l		1		0.0	(U.7)		(4.4)		(5.0)
	Medellín									43.7			(2.0) C		(1.9)	i .		1	(3.1)				(6.8)		
	United Arab Emirates	1			/	· ·						1						· · · ·						·	
	Abu Dhabi•	20.0	(3.2)	21.5	(3.2)	27.6	(3.5)	25.7	(3.6)	13.4	(2.3)	15.5	(2.8)	23.4	(3.6)	28.1	(4.1)	14.9	(3.5)	41.6	(4.6)	44.3	(4.8)	42.5	(4.6)
	Ajman			i .				1		17.9															(2.0)
	Dubai*	1		l		14.9					(0.1)				(0.1)	l			(0.1)						
	Fujairah Ras Al Khaimah		(4.7)					64.2			(5.1)	1			(4.8)	i .		1	(4.1)			i .			
	Ras Al Khaimah Sharjah					33.2				58.0 26.9					(8.4)				(8.9)						
	Umm Al Quwain									48.1								1				1			
		101.0	(01)	0 1.0	(0.1)	00.0	(01)	00.0	(01)		(0.1)		(0.1)	05.0	(0.5)	. 55.5	(0.1)	57.5	(01)	05.0	(0.5)	100.0	(0.1)	55.0	(0.0)

^{*} PISA adjudicated region.

Notes: Results for the province of Quebec in this table should be treated with caution due to a possible non-response bias.

For Massachusetts and North Carolina, the desired target population covers 15-year-old students in grade 7 or above in public schools only (see Annex A2). Puerto Rico is an unincorporated territory of the United States. As such, PISA results for the United States do not include Puerto Rico.

See Table II.4.1 for national data.

StatLink ISTE http://dx.doi.org/10.1787/888933436536



[Part 1/2]

Table B2.II.25 Student assessment

res	uits based on school principal	s rep	UI LS		P	ercenta	ige of st	udents	in scho	ols tha	t use fl	ne follo	wing m	ethods	for ass	essing s	tudent	s:			
							ndardis			,						latory s			ests		
		Ne	ver		imes	3-5 1	imes ear	Mon		Mo than a mo	once	Ne	ver	1-2 t	imes	3-5 ti	imes	Mon		Mo than a mo	once
		%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
OECD	Belgium								1												
OE	Flemish community	86.5	(3.0)	11.4	(2.9)	0.4	(0.4)	0.0	(1.2)	1.7	(1.1)	46.0	(4.2)	50.4	(4.3)	2.0	(1.1)	0.0	С	1.6	(1.1)
	French community German-speaking community	15.5 78.1	(4.3)	81.7 21.9	(4.6)	1.5 0.0	(1.0) C	1.2 0.0	(1.3) c	0.0	C C	75.6 98.6	(4.4)	21.0 1.4	(4.1)	2.5 0.0	(1.8) C	0.0	C C	1.0 0.0	(0.6) C
	Canada	70.1	(0.0)	21.5	(0.0)	0.0	C	0.0	-	0.0		50.0	(0.1)	1.4	(0.1)	0.0	C	0.0	C	0.0	
	Alberta	75.6	(4.6)	22.7	(4.8)	1.8	(1.7)	0.0	С	0.0	С	62.2	(5.1)	32.8	(4.4)	1.1	(1.0)	1.7	(1.7)	2.1	(1.8)
	British Columbia	0.0	С	88.5	(4.5)	11.4	(4.5)	0.0	С	0.0	(0.1)	73.2	(6.5)	26.7	(6.5)	0.0	С	0.0	С	0.0	(0.1)
	Manitoba	80.1	(2.2)	19.9	(2.2)	0.0	С	0.0	С	0.0	С	79.1	(2.5)	15.2	(1.8)	2.7	(1.6)	2.1	(0.2)	0.9	(0.9)
	New Brunswick	17.0	(2.5)	73.5	(2.5)	9.5	(0.7)	0.0	С	0.0	C	71.5	(2.2)	16.2	(1.0)	7.3	(2.4)	5.0	(0.4)	0.0	C
	Newfoundland and Labrador	28.3	(3.8)	71.7	(3.8)	0.0	С	0.0	С	0.0	C	65.0	(4.0)	33.0	(4.0)	2.1	(0.3)	0.0	С	0.0	С
	Nova Scotia	4.6	(2.5)	88.8	(4.2)	5.6	(3.1)	1.0	(1.2)	0.0	С	76.5	(4.8)	19.4	(4.7)	3.1	(2.6)	1.0	(1.2)	0.0	C
	Ontario	1.4	(1.1)	93.1	(2.2)	5.5	(1.9)	0.0	С	0.0	С	78.5	(4.3)	16.6	(3.7)	3.3	(1.9)	1.7	(1.2)	0.0	С
	Prince Edward Island	54.7	(3.7)	45.3	(3.7)	0.0	(4.F)	0.0	C (0.2)	0.0	(1.7)	63.4	(3.5)	36.6	(3.5)	0.0	C (F. 4)	0.0	(2 F)	0.0	(2, 2)
	Quebec Saskatchewan	4.7 51.5	(2.5)	81.1 46.8	(5.4) (4.3)	12.4 1.7	(4.5) (1.7)	0.4	(0.3) c	1.4 0.0	(1.7) C	45.9 58.4	(6.5)	31.4 39.8	(5.5)	15.6 1.3	(5.4)	3.3	(2.5) C	3.7 0.5	(2.2)
	Italy	31.3	(4.3)	40.0	(4.5)	1.7	(1.7)	0.0	C	0.0	C	30.4	(3.3)	39.0	(3.0)	1.5	(1.3)	0.0	C	0.5	(0.7)
	Bolzano	0.0	С	82.5	(0.4)	17.5	(0.4)	0.0	С	0.0	С	51.8	(0.4)	32.3	(0.4)	15.9	(0.3)	0.0	С	0.0	С
	Campania	7.0	(4.0)	84.4	(5.4)	8.6	(3.8)	0.0	С	0.0	С	46.1	(7.3)	35.7	(6.8)	16.2	(5.6)	2.0	(2.0)	0.0	С
	Lombardia	2.9	(2.1)	95.1	(2.7)	2.0	(1.9)	0.0	С	0.0	С	59.8	(7.8)	34.9	(7.4)	5.3	(3.5)	0.0	С	0.0	С
	Trento	6.7	(0.3)	85.1	(0.5)	3.9	(0.2)	4.3	(0.3)	0.0	С	35.0	(1.6)	39.5	(1.5)	25.5	(8.0)	0.0	С	0.0	С
	Portugal																				
	Região Autónoma dos Açores	72.1	(0.5)	17.5	(0.4)	8.8	(0.6)	1.5	(0.1)	0.0	С	44.2	(0.5)	53.6	(0.5)	2.2	(0.1)	0.0	С	0.0	С
	Spain								ı												
	Andalusia •	85.4	(5.2)	10.6	(4.4)	2.2	(2.1)	0.0	C (2.4)	1.9	(1.8)	55.7	(7.4)	37.5	(6.3)	6.8	(3.6)	0.0	C	0.0	(2.1)
	Arturios*	59.2	(7.0)	29.5 36.9	(5.7)	4.3	(3.1)	2.5	(2.4)	4.4	(3.1)	41.3	(7.5)	54.6	(8.1)	1.9	(2.0)	0.0	C (1.0)	2.1	(2.1)
	Asturias* Balearic Islands*	57.5 31.8	(8.1)	54.1	(8.0)	4.3 5.5	(0.1)	7.0	(3.5)	1.4 1.6	(1.4)	27.7 40.4	(6.0)	58.9 49.6	(7.1) (7.4)	6.0	(5.0)	1.0	(1.0) C	0.0 3.9	(2.8)
	Basque Country*	44.8	(6.1)	48.6	(6.3)	5.1	(2.7)	1.5	(1.3)	0.0	(1.7) C	38.4	(6.5)	42.9	(6.5)	11.1	(4.0)	4.9	(1.6)	2.7	(1.7)
	Canary Islands*	60.2	(6.8)	29.9	(6.4)	6.3	(3.2)	3.6	(2.5)	0.0	c	52.5	(7.0)	35.4	(7.4)	8.0	(4.0)	3.0	(2.2)	1.1	(1.2)
	Cantabria•	20.0	(5.3)	76.9	(5.8)	3.1	(2.2)	0.0	С	0.0	C	27.3	(5.5)	69.6	(5.5)	3.2	(0.2)	0.0	c	0.0	С
	Castile and Leon*	68.2	(6.5)	27.8	(6.5)	4.0	(0.4)	0.0	С	0.0	С	56.9	(7.4)	42.2	(7.4)	0.9	(0.9)	0.0	С	0.0	С
	Castile-La Mancha*	74.7	(5.2)	21.9	(5.3)	1.6	(1.6)	1.8	(1.8)	0.0	C	58.2	(6.4)	40.9	(6.4)	0.0	C	0.9	(0.9)	0.0	C
	Catalonia*	0.0	C	85.7	(5.4)	10.2	(4.6)	2.0	(2.1)	2.1	(2.1)	22.0	(6.4)	58.5	(7.0)	13.8	(5.3)	2.0	(2.0)	3.7	(2.6)
	Comunidad Valenciana*	61.8	(6.3)	24.2	(5.8)	4.3	(2.9)	6.5	(3.8)	3.2	(2.5)	61.3	(6.4)	33.4	(6.4)	4.3	(3.0)	0.0	С	1.0	(1.4)
	Extremadura•	71.9	(4.9)	26.5	(4.6)	1.6	(1.6)	0.0	(2, 2)	0.0	С	44.1	(6.7)	55.9	(6.7)	0.0	C (4.0)	0.0	(2, 1)	0.0	C (2.1)
	Galicia•	68.3	(5.9)	21.7	(5.2)	6.8	(3.5)	3.1	(2.2)	0.0	С	53.0	(5.5)	28.9	(6.1)	10.7	(4.0)	5.3	(3.1)	2.1	(2.1)
	La Rioja• Madrid•	59.7 53.3	(0.4)	30.9 30.0	(0.3)	9.3 8.5	(0.3)	0.1 3.8	(0.0)	0.0 4.4	(3.1)	40.6 50.2	(0.3)	53.5 38.4	(0.3)	5.9 9.4	(0.1)	0.0	C C	0.0 2.0	(2.0)
	Murcia•	60.1	(7.5)	37.6	(7.8)	0.0	(3.3) C	2.3	(2.2)	0.0	(J.1)	64.0	(5.4)	36.0	(5.4)	0.0	(4.5) C	0.0	С	0.0	(2.0) C
	Navarre•	58.0	(6.6)	38.1	(6.2)	2.2	(2.2)	0.0	(Z.Z)	1.7	(0.1)	31.4	(6.0)	53.7	(6.3)	11.5	(3.5)	1.7	(1.7)	1.8	(0.1)
	United Kingdom		(0.0)		(0.2)		(=-=)		-		(011)		(0.0)				(0.10)		(,		(011)
	England	0.0	С	76.1	(3.3)	17.1	(3.1)	5.3	(2.1)	1.5	(1.2)	33.0	(4.7)	57.7	(4.8)	7.5	(2.2)	1.9	(1.1)	0.0	С
	Northern Ireland	0.0	C	82.2	(3.3)	14.6	(3.6)	0.0	С	3.2	(1.9)	10.4	(3.6)	84.8	(4.3)	1.6	(1.6)	2.7	(1.9)	0.4	(0.0)
	Scotland	0.0	C	47.1	(5.4)	40.4	(5.4)	6.3	(2.6)	6.2	(3.0)	57.9	(5.5)	32.7	(5.6)	8.2	(3.1)	1.2	(1.1)	0.0	C
	Wales	0.0	C	62.7	(4.4)	31.8	(4.0)	5.5	(2.1)	0.0	C	30.2	(3.8)	62.9	(4.0)	5.0	(1.8)	1.9	(1.2)	0.0	С
	United States			45.0	(7.4)	F0.6	(7.0)	2.2	(2. 2) l	0.0		10.7	(4.0)	600	(6.0)	1112	(F. O)	1.0	(2.0)	F 0	(2.6)
	Massachusetts North Carolina	0.0	С	45.2	(7.4)	52.6	(7.0)	2.3	(2.3)	0.0	(1.0)	10.7	(4.9)	68.8	(6.2)	11.3	(5.0)	4.0	(2.9)	5.2 2.2	(3.6)
	North Carolina Puerto Rico	0.0 41.4	(7.9)	52.1 54.2	(6.4) (8.5)	44.1 4.3	(6.7)	1.9 0.0	(1.9) c	1.8	(1.8) C	3.6 52.4	(2.6)	66.6 39.7	(6.3)	25.8	(5.9)	1.8 3.5	(1.8)	2.5	(2.2)
	Tuesto Rico	1	(7.5)	3-1.2	(0.5)	4.5	(3.2)	0.0		0.0		32.1	(3.7)	33.7	(0.0)	1 2.0	(2.1)	J.5	(3.1)		(2.0)
ers	Colombia																				
Partners	Bogotá	29.1	(9.6)	54.6	(9.2)	12.2	(5.2)	1.3	(1.9)	2.8	(2.7)	15.6	(4.7)	37.8	(8.3)	23.6	(6.3)	11.5	(5.9)	11.4	(4.0)
Pa	Cali	35.0	(7.6)	49.5	(7.9)	11.0	(4.8)	2.5	(2.5)	1.9	(1.9)	13.1	(5.5)	35.3	(8.7)	39.3	(7.3)	8.7	(4.2)	3.6	(2.6)
	Manizales	33.6	(5.9)	45.9	(5.3)	13.6	(1.6)	5.9	(0.6)	1.0	(1.1)	15.8	(4.1)	43.9	(5.3)	20.2	(4.2)	3.1	(0.2)	17.1	(4.0)
	Medellín	17.5	(4.8)	57.8	(7.8)	22.0	(6.8)	0.0	С	2.8	(2.7)	36.8	(7.2)	39.4	(7.1)	16.4	(6.0)	3.5	(2.5)	3.9	(2.7)
	United Arab Emirates Abu Dhabi •	14.8	(3.9)	50.0	(4.7)	23.6	(4.5)	6.2	(2.6)	5.5	(1.7)	38.1	(5.1)	46.3	(4.9)	12.0	(3.3)	2.0	(0.4)	1.6	(1.4)
	Ajman	24.5	(7.4)	63.2	(5.3)	5.1	(0.3)	0.0	(2.0) C	7.2	(7.1)	35.7	(8.5)	53.1	(9.4)	5.0	(5.0)	6.3	(0.4)	0.0	(1.4) C
	Dubai*	24.6	(0.1)	54.6	(0.2)	15.4	(0.1)	3.2	(0.0)	2.3	(0.0)	43.1	(0.2)	44.4	(0.2)	9.8	(0.1)	1.8	(0.0)	1.0	(0.0)
	Fujairah	21.3	(4.2)	73.1	(4.3)	0.0	C	0.0	C	5.6	(0.4)	38.3	(4.7)	55.8	(4.0)	5.9	(2.7)	0.0	C	0.0	C
	Ras Al Khaimah	30.2	(9.2)		(10.0)	10.3	(0.7)	4.8	(4.2)	0.0	С	30.0	(8.2)	61.9	(7.6)	7.5	(5.4)	0.0	С	0.6	(0.0)
	Sharjah	20.1	(9.0)	43.0	(11.5)	26.8	(11.2)	5.7	(2.9)	4.4	(4.3)	26.1	(9.4)	67.9	(10.4)	4.4	(4.3)	1.6	(1.7)	0.0	С
	Umm Al Quwain	74.0	(0.4)	17.7	(0.4)	8.4	(0.3)	0.0	С	0.0	С	77.8	(0.3)	22.2	(0.3)	0.0	С	0.0	С	0.0	С

^{*} PISA adjudicated region.

Notes: Results for the province of Quebec in this table should be treated with caution due to a possible non-response bias.

For Massachusetts and North Carolina, the desired target population covers 15-year-old students in grade 7 or above in public schools only (see Annex A2). Puerto Rico is an unincorporated territory of the United States. As such, PISA results for the United States do not include Puerto Rico.

See Table II.4.19 for national data.

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[Part 2/2]

Table B2.II.25 Student assessment

Res	uits based on school principal	ι ιερ	UI LS		P	ercenta	ige of s	tudents	in sch	ools tha	at use t	he follo	wing m	ethods	for ass	essing	student	s:			
						ner-dev										s' judge			gs		
		Ne	ver		times ear		imes ear	Mor	nthly	than	ore once onth	Ne	ver		times ear	3-5 t a y	times ear	Mor	nthly		ore once onth
		%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
OECD	Belgium																				
OE	Flemish community	0.7	(0.7)	1.0	(0.7)	1.5	(0.9)	8.5	(2.3)	88.3	(2.4)	0.0	(2, 4)	0.7	(0.7)	6.6	(1.5)	11.6	(2.7)	81.1	(3.2)
	French community German-speaking community	2.6	(1.8) C	9.6 17.3	(3.5)	18.6	(4.8) C	10.3	(3.0)	58.9 58.8	(5.4)	11.3	(3.4) C	13.8	(3.5)	19.2 38.8	(4.7)	8.0 15.9	(3.2)	47.7 40.1	(5.7) (0.6)
	Canada	0.0		17.5	(0.5)	0.0		25.5	(0.5)	30.0	(0.7)	0.0		5.2	(0.2)	70.0	(0.0)	15.5	(0.5)	10.1	(0.0)
	Alberta	0.0	С	1.2	(1.3)	1.6	(1.3)	10.8	(4.5)	86.3	(4.9)	21.1	(5.4)	12.0	(4.3)	7.0	(3.2)	10.1	(4.1)	49.8	(5.9)
	British Columbia	0.0	С	0.0	С	4.5	(3.9)	23.5	(5.9)	72.0	(6.5)	30.5	(5.8)	0.0	С	18.8	(5.6)	4.9	(3.2)	45.8	(7.2)
	Manitoba	0.0	C	0.5	(0.5)	3.2	(1.4)	13.5	(2.3)	82.8	(2.5)	24.2	(2.4)	5.9	(0.3)	15.6	(2.6)	6.4	(1.9)	47.9	(3.2)
	New Brunswick	0.0	С	3.2	(0.2)	1.1	(0.1)	19.6	(2.6)	76.2	(2.6)	22.4	(2.9)	1.3	(1.1)	17.1	(1.5)	19.5	(1.7)	39.7	(3.3)
	Newfoundland and Labrador	0.0	С	0.0	C	8.0	(0.7)	17.4	(2.9)	74.6	(2.9)	34.9	(4.5)	4.5	(0.2)	16.4	(0.9)	15.6	(4.2)	28.6	(4.1)
	Nova Scotia Ontario	0.0	(0.9)	1.5 0.0	(1.4)	1.0	(1.0)	38.4	(5.4) (4.8)	59.1 72.9	(5.6) (4.9)	23.4 31.8	(4.2) (4.7)	8.4 2.3	(3.1)	15.5 12.4	(4.0)	7.2	(4.7)	35.0 46.3	(6.4) (4.6)
	Prince Edward Island	0.0	(0.9) C	0.0	(0.9)	0.0	(1.0) C	0.0	(4.0) C	99.1	(0.9)	4.9	(1.3)	11.3	(1.0)	4.0	(0.4)	34.3	(3.1)	45.5	(3.5)
	Quebec	0.0	С	4.3	(3.0)	5.9	(3.2)	19.9	(4.9)	70.0	(5.1)	10.1	(3.2)	12.1	(4.5)	13.6	(4.8)	10.1	(3.9)	54.2	(6.2)
	Saskatchewan	0.8	(0.8)	0.4	(0.4)	3.6	(1.0)	25.9	(3.7)	69.3	(3.8)	36.7	(3.9)	5.1	(2.0)	13.2	(2.2)	11.9	(2.5)	33.1	(3.9)
	Italy			'						'				'				'			
	Bolzano	0.9	(0.0)	6.5	(0.1)	18.2	(0.3)	40.1	(0.4)	34.4	(0.4)	0.0	С	6.6	(0.1)	6.0	(0.1)	37.3	(0.4)	50.0	(0.4)
	Campania	2.1	(2.2)	5.1	(3.0)	14.5	(4.4)	37.7	(6.6)	40.5	(7.2)	6.2	(3.7)	3.8	(2.6)	6.9	(3.6)	8.2	(3.6)	74.9	(5.9)
	Lombardia	6.0	(4.4)	11.0	(4.2)	6.4	(3.0)	26.5	(6.9)	50.1	(7.6)	12.8	(5.4)	3.0	(2.2)	12.1	(4.7)	14.2	(4.7)	57.9	(8.0)
	Trento	5.0	(0.2)	9.9	(0.3)	19.1	(0.6)	31.3	(0.9)	34.7	(1.4)	2.7	(0.1)	11.2	(0.4)	21.2	(0.6)	8.1	(1.5)	56.8	(1.4)
	Portugal Região Autónoma dos Açores	2.4	(0.1)	0.0		30.9	(0.6)	46.2	(0.5)	20.5	(0.5)	2.4	(0.1)	0.0		5.2	(0.6)	0.0	С	92.4	(0.6)
	Spain Spain	2.4	(0.1)	0.0	С	30.9	(0.0)	40.2	(0.3)	20.5	(0.5)	2.4	(0.1)	0.0	С	3.2	(0.6)	0.0	C	92.4	(0.0)
	Andalusia*	0.0	С	0.0	С	5.9	(3.4)	25.8	(5.7)	68.4	(6.8)	3.8	(2.8)	0.0	С	7.9	(3.9)	8.8	(4.0)	79.5	(4.9)
	Aragon•	0.0	С	2.1	(2.1)	5.5	(3.2)	33.3	(7.1)	59.2	(7.0)	9.3	(4.4)	2.2	(2.2)	9.7	(4.4)	11.0	(4.8)	67.7	(7.5)
	Asturias•	0.0	C	0.0	С	6.1	(3.5)	32.8	(7.6)	61.1	(6.8)	11.1	(4.5)	0.0	С	13.4	(5.1)	15.2	(4.9)	60.3	(6.8)
	Balearic Islands*	1.7	(1.8)	0.0	С	2.3	(2.3)	27.7	(6.3)	68.2	(6.9)	2.9	(2.2)	0.0	С	2.3	(2.3)	16.7	(4.9)	78.1	(5.6)
	Basque Country*	1.0	(1.0)	1.3	(1.3)	9.9	(3.6)	37.1	(5.2)	50.6	(5.7)	15.5	(4.4)	4.3	(2.5)	18.9	(5.1)	14.1	(4.1)	47.2	(6.9)
	Canary Islands*	3.5	(2.5)	0.0	C	4.0	(2.9)	32.6	(6.2)	59.9	(5.9)	4.9	(2.9)	4.0	(2.7)	4.1	(2.9)	11.7	(4.0)	75.2	(6.1)
	Cantabria •	0.0	C	1.1	(1.1)	4.7	(2.8)	28.3	(5.9)	65.8	(5.9)	3.8	(1.8)	0.0	(1.0)	7.9	(3.7)	9.0	(3.4)	79.3	(5.2)
	Castile and Leon* Castile-La Mancha*	0.0	C C	0.0	C C	15.6 3.7	(4.5)	38.5 48.8	(6.7)	46.0 47.5	(6.0) (7.1)	0.0 3.2	(2.2)	1.9	(1.9)	12.3	(5.0)	13.2	(5.0) (4.4)	72.6 78.3	(6.0) (5.7)
	Catalonia•	0.0	c	2.1	(2.0)	8.3	(4.1)	36.4	(5.0)	53.3	(6.8)	4.5	(2.9)	2.0	(2.0)	10.3	(4.6)	12.7	(5.2)	70.5	(6.4)
	Comunidad Valenciana*	0.0	c	0.0	C	9.5	(4.4)	35.3	(6.1)	55.3	(6.0)	8.1	(3.0)	3.7	(2.7)	10.9	(4.6)	10.1	(4.5)	67.1	(6.6)
	Extremadura*	0.2	(0.2)	0.0	С	9.0	(4.1)	22.9	(6.0)	67.8	(5.9)	1.3	(1.1)	1.7	(1.7)	14.0	(4.4)	3.2	(2.2)	79.8	(5.2)
	Galicia*	0.0	C	1.7	(1.7)	8.9	(4.1)	36.5	(7.1)	52.9	(7.3)	1.7	(1.8)	2.0	(2.0)	8.4	(3.8)	12.5	(4.7)	75.4	(6.4)
	La Rioja•	3.3	(0.1)	3.0	(0.1)	20.0	(0.4)	30.0	(0.4)	43.7	(0.5)	6.3	(0.1)	4.1	(0.1)	17.5	(0.3)	13.4	(0.4)	58.7	(0.4)
	Madrid*	0.0	C	0.0	C	9.5	(4.3)	28.0	(5.9)	62.6	(6.9)	6.4	(3.7)	0.0	С	10.2	(4.6)	13.5	(4.9)	69.9	(7.6)
	Murcia•	3.9	(2.8)	1.9	(1.9)	17.1	(5.1)	22.3	(6.2)	54.8	(6.8)	5.5	(3.2)	0.0	(2.1)	15.3	(4.8)	7.6	(3.8)	71.6	(5.9)
	Navarre* United Kingdom	0.0	С	2.1	(2.1)	9.1	(2.2)	40.4	(5.4)	48.3	(5.7)	8.0	(3.0)	3.8	(2.1)	26.1	(4.3)	14.8	(3.5)	47.3	(5.4)
	England	0.7	(0.7)	0.9	(0.7)	42.8	(4.6)	34.4	(4.4)	21.1	(3.9)	2.3	(1.3)	3.8	(1.6)	43.8	(4.5)	24.0	(3.8)	26.1	(4.2)
	Northern Ireland	0.0	С	0.0	С	37.1	(5.1)	27.4	(5.5)	35.5	(5.4)	6.3	(1.8)	10.0	(3.4)	37.2	(5.4)	15.8	(4.2)	30.7	(5.1)
	Scotland	0.0	С	3.6	(2.2)	44.5	(6.4)	38.0	(5.8)	13.9	(4.4)	1.3	(1.3)	10.7	(3.8)	29.1	(6.1)	20.4	(4.9)	38.5	(5.4)
	Wales	0.0	С	2.2	(1.4)	35.8	(3.8)	41.7	(3.5)	20.2	(3.5)	1.0	(1.1)	1.1	(1.1)	51.6	(4.4)	21.7	(3.8)	24.6	(3.7)
	United States																				
	Massachusetts*	0.0	С	3.9	(2.8)	1.2	(1.2)	16.1	(5.0)	78.9	(5.9)	23.7	(6.5)	7.9	(2.9)	11.1	(5.0)	6.5	(3.8)	50.7	(7.2)
	North Carolina* Puerto Rico*	0.0	(2.4)	0.0	(2.0)	2.5 5.5	(2.5)	3.9 6.2	(2.7)	93.6 84.5	(3.7)	17.0 40.4	(5.1)	6.1 15.4	(3.5)	2.2 9.5	(1.9)	8.7 10.7	(4.3)	64.0 24.0	(7.0) (8.7)
	r derio Rico	2.4	(2.4)	1.4	(2.0)	3.5	(3.5)	0.2	(3.3)	04.3	(0.1)	40.4	(0.3)	15.4	(0.3)	9.5	(3.0)	10.7	(3.4)	24.0	(0.7)
ers	Colombia																			,	
Partners	Bogotá	0.0	C	2.5	(2.5)	30.2	(5.0)		(10.4)	52.0	(9.9)	8.7	(6.2)	0.0	C	30.7	(7.7)	24.7	(6.8)		(10.0)
Pa	Cali	0.7	(0.7)	11.3	(6.0)	27.7	(7.7)	18.3	(6.6)	42.0	(8.0)	5.6	(3.6)	11.6	(6.2)	29.7	(7.4)	6.9	(3.3)	46.1	(6.6)
	Manizales Medellín	0.7	(0.5)	4.1 4.8	(2.4)	25.5 38.6	(3.6)	13.8	(1.6)	55.9 41.5	(3.3)	9.3 8.4	(1.5)	6.3 12.1	(2.1)	21.2 40.1	(4.2)	12.3 8.1	(2.8)	50.8 31.3	(4.8)
	United Arab Emirates	1.1	(1.1)	4.0	(5.5)	50.0	(7.3)	13.9	(5.4)	41.5	(7.1)	0.4	(4.3)	12.1	(4.0)	40.1	(0.7)	0.1	(4.U)	31.3	(0.0)
	Abu Dhabi*	2.9	(1.7)	3.4	(1.9)	13.9	(3.4)	22.6	(3.5)	57.1	(4.4)	5.7	(2.6)	10.0	(3.1)	12.8	(2.8)	19.8	(3.4)	51.8	(5.1)
	Ajman	1.1	(0.8)	0.0	C	15.3	(5.7)	38.6	(6.2)	45.1	(8.1)	13.3	(1.3)	5.8	(5.7)	13.0	(4.2)	14.4	(5.1)	53.4	(7.5)
	Dubai•	0.0	С	0.6	(0.0)	19.7	(0.1)	38.4	(0.2)	41.4	(0.2)	5.0	(0.1)	2.1	(0.0)	24.1	(0.2)	30.2	(0.1)	38.7	(0.2)
	Fujairah	1.5	(1.6)	7.1	(1.9)	9.7	(4.6)	42.3	(4.4)	39.4	(2.4)	8.8	(1.7)	11.7	(4.9)	3.8	(2.4)	23.3	(4.4)	52.4	(4.1)
	Ras Al Khaimah	1.8	(1.8)	0.6	(0.6)	20.5	(8.1)	20.9	(8.9)	l .	(10.7)	1.8	(1.8)	9.7	(7.7)	13.3	(4.3)	20.0	(6.9)	55.3	(8.7)
	Sharjah	7.0	(8.1)	0.0	С	9.4	(2.5)		(11.0)	l	(10.9)	6.3	(4.9)	l	(10.4)	13.9	(5.6)	22.8	(9.2)	1	(11.5)
	Umm Al Quwain	6.5	(0.4)	0.0	С	0.0	С	49.3	(0.4)	44.2	(0.3)	35.2	(0.5)	1.5	(0.1)	2.3	(0.3)	33.9	(0.5)	27.1	(0.3)

^{*} PISA adjudicated region.

Notes: Results for the province of Quebec in this table should be treated with caution due to a possible non-response bias.

For Massachusetts and North Carolina, the desired target population covers 15-year-old students in grade 7 or above in public schools only (see Annex A2). Puerto Rico is an unincorporated territory of the United States. As such, PISA results for the United States do not include Puerto Rico. See Table II.4.19 for national data.

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[Part 1/3]

Table B2.II.28 Quality assurance and improvement actions at school

			ı	Percer	itage o	of stud	lents i	n scho	ools w			al repo						ngeme	nts aiı	med a	t quali	ity ass	urance	2	
				rnal e elf-eva					Exte		evalua				Write e scho	ten sp	ecific urricu	ular p	rofile				ation e star		
		Yes, t	his is latory			N	lo	Yes, t	this is latory	on so	based chool ative	N	0	Yes, t	this is latory	Yes, l on so initia		N	lo		this is latory	Yes, l on so initia		N	lo
		%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Q)	Belgium	1.																							
OECD	Flemish community			77.0		l	(1.5)		(4.0)			13.7			(3.8)			ı	(1.8)			1	(4.1)	l	(4.1)
	French community German-speaking community	13.2 31.9		53.2 62.9		l	(5.4) (0.2)		(4.7) C		(2.1) C	15.3 0.0	(4.3)			26.3		3.5 0.0		06 =		31.7	(0.6)		(6.2)
	Canada	71.5	(0.0)	02.5	(0.0)	J.2	(0.2)	100.0		0.0	C	0.0	C	75.4	(0.4)	20.0	(0.4)	0.0	C	20.7	(0.5)	20.1	(0.0)	75.5	(0.5)
	Alberta	42.4	(6.6)	50.8	(6.9)	6.8	(3.2)	43.7	(6.3)	26.2	(4.6)	30.1	(5.8)	69.8	(5.4)	21.8	(4.9)	8.3	(2.8)	65.8	(5.7)	24.3	(5.5)	10.0	(3.1)
	British Columbia	30.3	(6.8)	47.1	(7.9)	22.5	(6.0)	48.9	(7.3)	12.7	(5.2)	38.4	(7.1)	64.4	(7.7)	31.3	(7.7)	4.4	(3.3)	44.7	(7.6)	32.9	(7.0)	22.4	(6.4)
	Manitoba	44.2	(2.8)	48.7	(2.8)	7.1	(2.4)	33.0	(3.2)	21.3	(2.8)	45.7	(3.6)	61.2	(2.8)	31.7	(2.7)	7.2	(2.1)	33.8	(2.8)	44.0	(3.5)	22.2	(3.4)
	New Brunswick	56.5	(2.4)	37.1	(1.9)	6.4	(2.4)	83.5	(2.0)	3.6	(1.3)	12.9	(2.1)		(2.9)	27.2	(2.5)	10.2	(2.7)	61.4	(2.5)	18.2	(1.4)	20.4	(1.5)
	Newfoundland and Labrador		(1.6)		(0.7)	l	(1.4)		(3.8)		(1.6)	15.0				15.8		1	(0.2)		(4.6)			l	(2.3)
	Nova Scotia		(5.8)		(5.1)	l .	(3.2)	1	(4.7)			29.9				1	(4.5)	1	(2.7)		(6.0)		(3.5)	l	(6.1)
	Ontario			41.4	(5.5)	l	(3.1)	1	(5.5)		(3.3)	33.1			(4.6)	28.0		ı	(3.3)		(5.8)	1		1	(4.0)
	Prince Edward Island Quebec		(3.8)			l	(2.1)	l	(4.7)		(1.3)	42.8					(2.8)	1	(0.3)					l	(0.9)
	Saskatchewan			52.8 51.4	(6.9)	1	(5.1)	1	(4.2)					71.4 52.3			(5.3)	1	(2.2)		(6.4) (4.1)		(4.8)	1	(5.5)
	Italy	1 33.3	(3.4)	51.4	(3.7)	13.1	(4.1)	J J J J J J	(¬∠)	0.0	(5.0)	51.4	(7.0)	12.3	(3.4)	1 23.3	(3.7)	0.4	(1.3)	₁ ¬∠3	(7.1)	23.2	(3.4)	20.3	(0.0)
	Bolzano	28.4	(0.3)	66.0	(0.4)	5.5	(0.3)	76.1	(0.5)	14.5	(0.3)	9.4	(0.4)	29.1	(0.4)	51.1	(0.4)	19.8	(0.3)	20.9	(0.4)	37.3	(0.4)	41.8	(0.4)
	Campania	1	(6.2)		(6.4)	1	(3.8)		(8.0)	7.6				24.1	(6.1)	67.3	(6.2)	i	(4.1)		(4.8)		(7.2)	i	(6.3)
	Lombardia	57.6	(7.8)	35.7	(7.3)	6.7	(3.5)	21.4	(5.3)	21.5	(5.9)	57.1	(6.4)	17.9	(5.3)	74.7	(5.7)	7.4	(3.4)	13.4	(4.8)	54.3	(6.8)	32.3	(6.4)
	Trento	38.9	(0.9)	60.4	(0.9)	0.6	(0.0)	43.3	(1.0)	13.3	(0.4)	43.4	(1.2)	30.7	(1.3)	64.8	(1.3)	4.5	(0.2)	12.0	(1.7)	52.2	(1.1)	35.8	(1.1)
	Portugal																								
	Região Autónoma dos Açores	47.1	(0.6)	41.9	(0.6)	11.0	(0.1)	68.2	(0.3)	4.5	(0.1)	27.3	(0.3)	50.5	(0.6)	41.2	(0.6)	8.2	(0.1)	18.5	(0.5)	56.2	(0.6)	25.3	(0.7)
	Spain	1																							
	Andalusia*			34.6		l	(2.1)			17.0					(5.6)			1	(4.5)	1			(6.4)	l	
	Aragon*	13.1		68.7	(6.7)	l	(5.4)		(6.7)			42.3				37.0	(7.7)		(4.9)		(7.4)	1	(7.8)	l	(5.1)
	Asturias* Balearic Islands*		(6.1)		(5.1)	l	(4.4) (5.3)	1	(4.8)		(4.1)	20.6 37.4				31.0	(7.6) (6.4)	14.1 22.8			(6.2)	38.1 41.5		l	(5.2) (5.8)
	Basque Country*	14.3			(5.5)	l	(4.6)	l	(5.5)			14.8				49.4		7.1		25.2			(5.8)	l	(4.6)
	Canary Islands*	25.8			(6.2)	14.6		l	(6.5)			38.0			(7.2)	36.1	(7.1)	16.2			(7.7)	32.6		10.0	
	Cantabria*		(5.3)		(5.0)	l	(3.2)		(5.6)		(3.6)	10.7					(5.5)	1	(4.2)					l	(5.3)
	Castile and Leon*	11.9	(4.1)	76.1	(6.2)	11.9	(4.7)	53.4	(6.9)	7.3	(2.9)	39.3	(7.2)	55.4	(7.0)	32.2	(6.5)	12.4	(4.6)	53.0	(5.8)	30.8	(6.1)	16.3	(4.9)
	Castile-La Mancha*	69.2	(6.2)	30.8	(6.2)	0.0	C	56.1	(7.2)	16.7	(4.9)	27.2	(5.4)	51.8	(8.2)	36.2	(7.4)	12.0	(4.6)	39.9	(7.0)	39.5	(6.6)	20.7	(5.2)
	Catalonia*	31.0	(6.5)	59.9	(7.2)	9.2	(3.9)	80.0	(6.3)	17.7	(5.8)	2.4	(2.3)	44.2	(6.8)	46.7	(6.8)	9.1	(4.1)	24.1	(6.0)	62.0	(6.6)	13.9	(5.2)
	Comunidad Valenciana*	16.5		59.1	(7.0)	24.4			(7.2)			37.9				36.8		13.0						l	(6.9)
	Extremadura*		(6.0)	57.9	(6.3)	21.8		l .	(7.0)		(5.6)					41.3		15.1			(6.0)	47.9		l	(5.7)
	Galicia•	26.8		53.0	(6.5)	l			(7.1)			35.7		i	(7.7)	22.9	(6.4)	16.8			(6.5)			l	(6.6)
	La Rioja*	18.1 30.9			(0.4)	l			(0.5)		(0.3)	41.8 18.7				24.9 43.4	(0.3)	26.5			(0.4)	46.5 53.0		l	(0.4)
	Madrid• Murcia•	24.9			(7.0)	13.4 13.1			(5.9)	6.9	(3.7)	30.5					(6.1)	1	(3.6)		(5.1)			11.5	(4.8)
	Navarre*	21.1		54.7	(5.4)	l	(3.6)		(5.7)			12.8			(5.6)			11.4			(4.9)			21.0	
	United Kingdom	1	(110)		(0.17)		(0.10)		(0.11)		(114)		(0.12)		(0.10)		(010)		()		(110)		(110)		(110)
	England	38.5	(4.0)	61.5	(4.0)	0.0	С	67.9	(3.9)	29.0	(3.8)	3.1	(1.6)	48.0	(4.0)	49.2	(4.5)	2.8	(1.7)	56.6	(4.4)	42.4	(4.5)	1.0	(0.9)
	Northern Ireland	34.2	(5.9)	65.8	(5.9)	0.0	C	90.5	(3.1)	9.5	(3.1)	0.0	C	59.7	(5.8)	37.2	(6.1)	3.1	(1.7)	69.0	(4.8)	29.2	(4.8)	1.7	(0.1)
	Scotland	62.2	(6.0)	37.8	(6.0)	0.0	C	90.5	(3.5)		(2.3)	5.2	(2.8)	58.3	(4.9)	38.6	(5.1)	1	(2.2)			28.9	(4.7)	12.2	(4.3)
	Wales	77.1	(4.1)	22.9	(4.1)	0.0	С	88.3	(2.8)	9.2	(2.5)	2.6	(1.5)	64.9	(4.3)	29.4	(4.2)	5.7	(2.3)	71.3	(3.8)	26.0	(3.7)	2.7	(1.5)
	United States	1 =0.0	(E.O.)	الممد		۱		l = 4 0	(C E)	مبدا	(E. E.		(E.O)				(= 6)			l		مبدا	(B. 6)	١	(0.0)
	Massachusetts*			18.6		0.0	(2 F)				(5.7)				(7.4)			0.0			(7.1)				(2.8)
	North Carolina Puerto Rico			12.6			(2.5)				(2.5)	16.9			(5.5)				(1.5)						(4.1)
	r derto Rico	10.0	(7.5)	10.0	(0.0)	14.0	(7.4)	02.1	(0.7)	21.0	(3.3)	10.5	(7.7)	7 0.7	(3.0)	17.5	(3.7)	J.7	(2.3)	70.4	(3.2)	21.5	(4.7)	2.5	(2.3)
SJE	Colombia																								
Partners	Bogotá			61.9		!	C			32.8					(6.4)				(4.9)						(6.0)
Pa	Cali			30.8		0.0	С	1		28.1					(7.4)			1	(2.6)				(8.1)	1	(2.0)
	Manizales			39.8		1	C			15.8					(3.9)				(2.7)					1	(1.5)
	Medellín	63.8	(/.4)	36.2	(/.4)	0.0	С	/1.4	(6.1)	21.8	(5.6)	6.8	(4.0)	36.4	(6.9)	58.0	(6.6)	5.6	(1.9)	47.6	(5.4)	48.9	(5.5)	3.5	(2.5)
	United Arab Emirates Abu Dhabi*	500	(4.6)	40.0	(4.6)	12	(1.2)	02.0	(2.7)	7.0	(2.7)	0.0		572	(5.0)	41.0	(5.0)	0.7	(0.0)	53.2	(5.2)	43.7	(5.1)	2.1	(1.7)
	Ajman			45.2		0.0	(1.2) C			12.8					(4.5)			0.7		1			(8.8)	0.0	
	Dubai•			39.4		0.0	С		(0.1)		(0.1)				(0.2)				(0.0)					1	(0.0)
	Fujairah			31.1		0.0	c			12.4		0.0			(3.8)				(2.2)			49.3		0.0	
	Ras Al Khaimah			29.4		0.0	c	1		21.2		0.0			(9.2)			0.0		74.5		1		0.0	
	Sharjah			46.8		0.0	С		(4.9)		(4.9)	0.0			(8.5)			5.1	(4.9)					0.0	
	Umm Al Quwain	86.3	(0.5)	13.7	(0.5)	0.0	С	98.8	(0.0)	0.0	С	1.2	(0.0)	88.6	(0.1)	11.4	(0.1)	0.0	С	50.0	(0.4)	48.8	(0.4)	1.2	(0.0)

[•] PISA adjudicated region.

Notes: Results for the province of Quebec in this table should be treated with caution due to a possible non-response bias.

For Massachusetts and North Carolina, the desired target population covers 15-year-old students in grade 7 or above in public schools only (see Annex A2). Puerto Rico is an unincorporated territory of the United States. As such, PISA results for the United States do not include Puerto Rico. See Table II.4.33 for national data.

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[Part 2/3]

Table B2.II.28 Quality assurance and improvement actions at school

				of stude					eported vement				gement	s aimed	at qual	ity assur	ance	
		s teache	er or stu	ding of udent at al devel	tendanc	e,	Systen		cording d gradu			results	Seek	ing wri	tten fee	dback fi	rom stu	dent
		this is	on s	based chool iative	N	lo	Yes,	this is latory	on se	based chool ative	N	lo	Yes, t	this is latory	on s	based chool ative	N	No
	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.
Belgium																,		
Flemish community•	42.1	(4.2)	56.7	(4.3)	1.3	(0.9)	24.4	(3.5)	70.3	(3.7)	5.3	(1.9)	2.6	(1.4)	74.2	(3.3)	23.2	(3.
French community	41.5	(5.7)	31.6	(5.3)	26.9	(5.6)	44.5	(6.0)	42.2	(5.6)	13.2	(4.3)	3.1	(1.5)	9.1	(3.5)	87.8	(3.
German-speaking community	42.8	(0.7)	46.3	(0.6)	10.8	(0.3)	29.2	(0.7)	46.3	(0.6)	24.5	(0.5)	0.0	С	54.5	(0.6)	45.5	(0.
Canada	Leca	(F 7)		(E E)	0.0	(2.0)	07.0	(4.5)	10.7	(4.5)	0.0		22.1	(4.5)	F.C. F.	(6.0)	21.4	(5
Alberta British Columbia	56.4	(5.7)	34.4	(5.5)	9.2	(2.9)	87.3	(4.5)	12.7	(4.5)	0.0	(1.4)	22.1	(4.5)	56.5	(6.0)	21.4	(5
Manitoba	53.9	(7.0)	29.5	(6.7)	16.6	(4.6)	88.9	(4.4)	9.7	(4.1)	1.4	(1.4)	8.1	(4.4)	55.3	(7.4)	36.5	(7
New Brunswick	64.0 44.7	(3.0)	28.7 42.1	(3.0)	7.3 13.2	(1.7) (1.4)	55.8 61.9	(3.6)	33.0 27.4	(3.6)	11.3 10.8	(2.3)	3.6 21.7	(1.4)	59.7 28.2	(3.6)	36.7 50.1	(3
Newfoundland and Labrador	70.4	(2.6)	28.3	(2.6)	1.3	(0.3)	81.0	(1.6)	19.0	(1.6)	0.0	(2.3) C	21.5	(2.8)	54.1	(3.9)	24.5	(3
Nova Scotia	82.1	(4.3)	9.3	(3.4)	8.6	(2.7)	84.0	(4.7)	11.2	(3.4)	4.7	(3.2)	14.8	(4.4)	39.4	(4.8)	45.9	(5
Ontario	65.3	(5.8)	24.9	(5.1)	9.8	(3.1)	82.7	(4.3)	11.9	(3.6)	5.4	(2.4)	5.5	(2.3)	53.0	(6.0)	41.4	(5
Prince Edward Island	90.1	(4.7)	6.9	(4.8)	3.0	(0.3)	92.1	(2.9)	7.9	(2.9)	0.0	(Z1)	16.6	(1.2)	33.7	(4.9)	49.7	(4
Quebec	36.1	(6.0)	35.3	(5.5)	28.6	(5.7)	60.5	(5.5)	37.5	(5.0)	2.0	(2.0)	2.2	(1.6)	27.3	(5.4)	70.6	(5
Saskatchewan	53.2	(4.1)	41.0	(4.3)	5.8	(1.5)	78.3	(3.0)	17.6	(3.3)	4.0	(1.6)	29.0	(4.1)	44.8	(4.6)	26.2	(4
Italy		(111)		(110)		(110)			11.10	(0.10)		(110)		()		(110)		
Bolzano	17.1	(0.4)	76.1	(0.4)	6.7	(0.1)	28.1	(0.4)	62.5	(0.4)	9.4	(0.3)	0.6	(0.0)	72.0	(0.3)	27.4	(C
Campania	31.0	(6.6)	48.2	(7.7)	20.8	(6.1)	35.2	(7.2)	58.8	(7.8)	5.9	(3.8)	2.6	(2.1)	28.7	(6.2)	68.7	(6
Lombardia	23.7	(5.8)	63.1	(7.3)	13.2	(4.7)	29.8	(5.4)	65.2	(5.8)	4.9	(3.0)	1.3	(0.9)	32.6	(6.6)	66.1	(6
Trento	18.3	(1.8)	70.2	(1.9)	11.4	(1.4)	10.6	(0.8)	87.9	(1.5)	1.5	(1.5)	0.0	С	53.3	(1.5)	46.7	(1
Portugal	· ·																	
Região Autónoma dos Açores	48.3	(0.4)	34.7	(0.3)	17.0	(0.4)	23.3	(0.3)	76.7	(0.3)	0.0	С	1.6	(0.1)	49.2	(0.4)	49.2	((
Spain																		
Andalusia•	58.1	(7.2)	35.3	(6.4)	6.6	(3.6)	48.9	(7.9)	49.0	(7.6)	2.1	(2.1)	6.0	(3.5)	71.4	(6.2)	22.6	(!
Aragon•	47.7	(6.7)	37.4	(5.5)	14.9	(4.9)	54.9	(0.8)	38.8	(7.6)	6.3	(3.7)	0.0	C	64.1	(7.1)	35.9	(7
Asturias*	46.4	(5.3)	42.6	(6.4)	11.0	(4.8)	50.9	(7.0)	48.2	(6.9)	0.8	(0.6)	2.2	(2.1)	66.9	(5.8)	30.9	(1
Balearic Islands	47.6	(8.1)	40.6	(7.2)	11.8	(4.8)	46.4	(7.0)	45.2	(6.1)	8.4	(3.9)	1.6	(1.7)	81.6	(5.1)	16.8	(4
Basque Country*	29.6	(5.8)	64.0	(6.4)	6.4	(2.8)	44.6	(5.6)	55.1	(5.6)	0.2	(0.2)	2.1	(1.8)	80.2	(4.5)	17.7	(4
Canary Islands*	54.5	(6.1)	35.7	(5.2)	9.8	(4.5)	61.0	(6.9)	37.1	(6.6)	1.9	(1.9)	4.7	(3.0)	73.3	(5.7)	22.0	(,
Cantabria•	50.9	(5.6)	32.2	(4.8)	16.9	(3.3)	35.5	(6.6)	59.4	(7.1)	5.0	(3.0)	7.1	(2.9)	56.5	(6.2)	36.4	(;
Castile and Leon•	44.4	(5.0)	48.2	(3.7)	7.4	(3.6)	47.8	(5.7)	45.3	(6.6)	6.9	(3.5)	3.0	(2.0)	82.2	(5.8)	14.8	([
Castile-La Mancha•	69.4	(4.7)	26.3	(4.7)	4.3	(2.6)	47.9	(7.7)	46.4	(7.4)	5.7	(2.1)	6.3	(3.2)	76.3	(5.2)	17.4	(-
Catalonia*	46.4	(7.4)	51.6	(7.0)	2.0	(1.9)	68.6	(6.1)	31.4	(6.1)	0.0	C (2.0)	7.5	(3.8)	76.1	(6.0)	16.4	(!
Comunidad Valenciana •	43.3	(5.9)	49.9	(6.5)	6.8	(3.5)	38.9	(6.5)	54.2	(7.4)	6.9	(3.9)	1.0	(1.4)	71.2	(7.2)	27.8	(
Extremadura*	41.9	(7.6)	49.8	(7.1)	8.3	(4.2)	30.4	(7.1)	67.4	(7.4)	2.2	(2.3)	2.3	(2.2)	69.6	(6.1)	28.1	(.
Galicia• La Rioja•	55.4 41.8	(6.4) (0.4)	28.9 33.7	(5.2) (0.2)	15.7 24.5	(5.3)	46.7 38.4	(7.2) (0.4)	32.6 59.6	(5.9) (0.4)	20.8	(5.9) (0.1)	2.0 4.3	(2.0)	55.8 59.3	(5.4) (0.5)	42.2 36.4	(.
Madrid*	26.5	(5.4)	55.3	(5.7)	18.2	(6.1)	40.6	(6.7)	58.5	(6.8)	0.9	(0.1)	1.3	(1.3)	69.0	(6.1)	29.7	()
Murcia•	50.9	(7.4)	35.2	(6.0)	14.0	(5.3)	44.2	(7.3)	52.2	(7.3)	3.7	(2.7)	2.2	(2.0)	77.3	(6.2)	20.5	(.
Navarre*	26.9	(4.4)	70.8	(4.3)	2.3	(0.1)	26.6	(4.3)	64.9	(4.9)	8.5	(2.2)	3.0	(0.2)	72.2	(4.1)	24.8	(-
United Kingdom	20.5	(4.4)	70.0	(4.5)	2.5	(0.1)	20.0	(4.5)	04.5	(4.5)	0.5	(2.2)	5.0	(0.2)	/2.2	(4.1)	24.0	(-
England	49.0	(4.3)	51.0	(4.3)	0.0	С	52.0	(4.3)	48.0	(4.3)	0.0	С	3.5	(1.4)	86.4	(2.5)	10.1	(.
Northern Ireland	74.1	(5.7)	25.9	(5.7)	0.0	С	64.2	(5.4)	35.8	(5.4)	0.0	c	4.9	(2.3)	83.5	(4.1)	11.6	(.
Scotland	80.1	(3.8)	18.6	(3.7)	1.3	(1.3)	72.6	(4.7)	23.6	(4.9)	3.9	(2.3)	2.7	(2.0)	93.8	(2.8)	3.5	(2
Wales	60.4	(4.1)	39.6	(4.1)	0.0	С	57.0	(4.1)	43.0	(4.1)	0.0	С	5.5	(1.9)	91.4	(2.6)	3.0	(
United States					'		'				'						'	
Massachusetts*	60.7	(7.5)	28.9	(5.7)	4.2	(3.0)	79.3	(6.5)	14.8	(5.6)	3.8	(2.8)	26.2	(6.6)	39.0	(7.6)	32.6	(
North Carolina®	63.6	(6.2)	32.3	(5.6)	4.1	(2.9)	95.5	(3.1)	2.5	(2.4)	0.0	C	37.9	(7.5)	23.7	(6.1)	38.3	(
Puerto Rico*	60.6	(6.7)	27.6	(6.9)	11.8	(6.9)	68.7	(7.0)	29.1	(6.8)	2.2	(2.2)	18.6	(7.2)	55.7	(8.8)	25.7	(
6.1.11																		_
Colombia	6.3	(4.4)	00.0	(E.4)	2.9	(2.1)	16.2	(6.6)	79.4	(7.4)	E 4	(2.7)	47	(2.4)	82.8	(E.2)	12.5	,
Bogotá Cali	6.2 22.7	(4.4)	90.9	(5.4)	1	(3.1)	16.2 24.7	(6.6)	78.4	(7.4)	5.4	(3.7)	4.7	(3.4)	1	(5.3)		(.
Cali Manizales		(5.1)		(5.1)	0.0	(2.0)	1	(6.4)	75.3	(6.4)	0.0	(O 1)	5.1	(3.5)	79.3	(5.8)	15.5	(.
Medellín	22.7 16.9	(4.4) (5.6)	75.3 83.1	(4.1) (5.6)	2.0 0.0	(2.0)	26.1 18.2	(4.9) (5.1)	71.7 81.8	(4.9) (5.1)	0.0	(0.1)	7.2 2.2	(1.6)	84.8 84.7	(3.3)	8.0 13.2	(.
United Arab Emirates	10.9	(0.0)	03.1	(0.0)	0.0	С	10.2	(3.1)	01.0	(3.1)	0.0	С	2.2	(2.0)	04./	(4.0)	13.2	(
Abu Dhabi*	64.0	(4.6)	36.0	(4.6)	0.0	С	73.5	(4.4)	26.5	(4.4)	0.0	С	21.3	(4.4)	69.7	(4.6)	9.0	(
Ajman	65.0	(7.4)	35.0	(7.4)	0.0	С	85.9	(4.8)	14.1	(4.8)	0.0	С	25.8	(6.3)	69.1	(7.8)	5.1	(.
Dubai•	45.6	(0.2)	54.4	(0.2)	0.0	С	57.8	(0.2)	41.1	(0.2)	1.0	(0.0)	16.5	(0.2)	74.7	(0.2)	8.8	()
Fujairah	53.2	(4.3)	46.8	(4.3)	0.0	С	82.6	(3.0)	17.4	(3.0)	0.0	(0.0) C	22.6	(3.9)	59.4	(5.0)	18.0	(.
Ras Al Khaimah	88.1	(6.3)	11.9	(6.3)	0.0	С	90.7	(6.8)	9.3	(6.8)	0.0	С	35.0	(7.9)	53.8	(8.6)	11.2	(.
Sharjah	57.7	(10.2)	42.3	(10.2)	0.0	c	71.2	(9.1)	28.8	(9.1)	0.0	C	27.8	(7.9)	60.6	(9.8)	11.7	()
Umm Al Quwain	36.5	(0.4)	60.8	(0.4)	2.8	(0.0)	45.3	(0.4)	54.7	(0.4)	0.0	С	13.1	(0.1)	75.3	(0.3)	11.5	(

[•] PISA adjudicated region.

Notes: Results for the province of Quebec in this table should be treated with caution due to a possible non-response bias.

For Massachusetts and North Carolina, the desired target population covers 15-year-old students in grade 7 or above in public schools only (see Annex A2). Puerto Rico is an unincorporated territory of the United States. As such, PISA results for the United States do not include Puerto Rico.

See Table II.4.33 for national data.

StatLink **ISB*** http://dx.doi.org/10.1787/888933436536



[Part 3/3]

Table B2.II.28 Quality assurance and improvement actions at school

		Perc	entage	of stude	nts in sc	hools w		ncipal r d impro					gement	s aimed	at quali	ity assur	ance	
		To	eacher 1	nentori	ng		impi	gular co rovemer er a per	t with	one or r	nore ex	perts	Imple		tion of a			polic
		this is	on s	based chool ative	N	lo		this is latory	on se	based chool ative	N	lo		this is latory	on se	based chool ative	N	lo.
	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.I
Belgium																		
Flemish community French community	4.2 2.4	(1.6) (1.8)	93.2 58.2	(2.1) (5.6)	2.6 39.4	(1.3) (5.3)	2.2 1.0	(1.2) (1.0)	59.8 25.2	(3.2) (4.6)	38.0 73.9	(3.4) (4.7)	7.8 16.1	(2.3) (4.7)	39.1 51.7	(4.3) (5.8)	53.0 32.2	(4. (5.
German-speaking community	0.0	С	41.4	(0.7)	58.6	(0.7)	0.0	С	46.3	(0.6)	53.7	(0.6)	27.1	(0.6)	21.8	(0.3)	51.1	(0.
Canada	,																	
Alberta	28.6	(5.5)	69.8	(5.3)	1.6	(1.4)	32.6	(5.8)	47.9	(5.1)	19.5	(4.7)	42.2	(5.5)	39.2	(5.4)	18.6	(4.
British Columbia	9.9	(4.1)	77.5	(6.3)	12.6	(4.8)	6.9	(3.2)	40.7	(6.6)	52.4	(6.9)	29.0	(6.8)	27.2	(6.5)	43.8	(6.
Manitoba	11.6	(1.3)	76.1	(3.1)	12.3	(3.2)	14.0	(1.7)	45.5	(2.9)	40.5	(3.2)	28.6	(2.1)	31.9	(2.8)	39.5	(3.
New Brunswick	24.3	(2.0)	57.0	(2.0)	18.7	(2.4)	41.1	(2.4)	39.2	(2.7)	19.6	(2.8)	31.1	(1.8)	26.3	(2.4)	42.6	(3.
Newfoundland and Labrador	19.4	(2.6)	70.6	(4.0)	10.1	(3.0)	60.2	(4.0)	21.8	(4.2)	18.0	(0.8)	58.7	(4.1)	35.7	(3.5)	5.6	(2.
Nova Scotia	20.1	(6.0)	72.9	(6.2)	7.0	(2.9)	46.6	(5.9)	35.5	(6.0)	17.9	(4.7)	31.8	(5.4)	38.3	(6.1)	29.9	(6.
Ontario	63.0	(4.7)	29.3	(4.6)	7.7	(2.6)	48.1	(5.0)	38.5	(4.8)	13.4	(3.6)	47.0	(5.1)	29.4	(4.9)	23.6	(4
Prince Edward Island	36.5	(3.0)	51.8	(3.0)	11.7	(1.2)	61.1	(3.2)	30.3	(4.7)	8.6	(2.3)	66.9	(3.4)	19.8	(2.2)	13.3	(2
Quebec	4.8	(2.6)	68.8	(6.0)	26.4	(5.6)	7.0	(2.6)	25.0	(5.7)	68.0	(6.0)	39.0	(6.0)	28.7	(6.0)	32.4	(6
Saskatchewan	24.7	(3.8)	63.8	(4.0)	11.4	(1.9)	22.5	(3.7)	43.6	(4.2)	34.0	(3.2)	49.1	(4.2)	23.7	(3.2)	27.2	(3
Italy																		
Bolzano	8.8	(0.4)	70.6	(0.4)	20.6	(0.3)	0.0	C	47.9	(0.4)	52.1	(0.4)	17.1	(0.2)	39.3	(0.4)	43.6	(0
Campania	0.0	C	23.8	(6.2)	76.2	(6.2)	4.1	(3.2)	10.0	(4.4)	85.9	(5.4)	1.8	(1.8)	40.9	(5.6)	57.2	(5
Lombardia	2.0	(2.0)	33.7	(7.1)	64.3	(7.4)	0.0	C	10.8	(4.4)	89.2	(4.4)	2.0	(2.0)	37.4	(7.2)	60.6	(7
Trento	0.0	C	58.9	(1.6)	41.1	(1.6)	0.0	C	34.1	(1.7)	65.9	(1.7)	2.3	(0.1)	44.7	(1.0)	52.9	(1
Portugal																		
Região Autónoma dos Açores	24.7	(0.4)	29.7	(0.3)	45.6	(0.5)	3.2	(0.1)	0.8	(0.1)	96.0	(0.2)	10.5	(0.4)	18.6	(0.6)	70.9	(C
Spain																		
Andalusia•	4.8	(2.8)	16.1	(4.8)	79.1	(5.5)	1.8	(1.8)	20.2	(5.5)	78.1	(5.8)	3.1	(2.2)	24.8	(5.0)	72.1	(5
Aragon*	13.1	(5.2)	22.7	(6.0)	64.2	(7.8)	4.3	(3.0)	19.1	(5.0)	76.6	(5.9)	4.2	(2.9)	27.7	(6.8)	68.1	(6
Asturias*	6.1	(3.6)	19.7	(3.6)	74.1	(4.2)	8.1	(2.9)	18.6	(5.0)	73.3	(4.9)	2.0	(2.0)	33.7	(6.5)	64.4	(6
Balearic Islands*	1.6	(1.7)	59.8	(6.5)	38.5	(6.3)	0.0	C	24.3	(4.9)	75.7	(4.9)	5.1	(3.2)	21.5	(6.3)	73.4	(7
Basque Country*	10.2	(2.1)	40.7	(5.1)	49.1	(4.8)	8.5	(3.3)	52.7	(5.5)	38.8	(5.2)	3.0	(1.9)	39.1	(6.4)	57.9	(6
Canary Islands*	3.3	(2.3)	22.6	(5.5)	74.0	(5.8)	4.5	(3.0)	36.8	(5.9)	58.7	(5.7)	9.2	(4.0)	24.6	(5.6)	66.2	(6
Cantabria*	3.6	(2.6)	14.2	(5.0)	82.2	(5.0)	0.0	C	15.3	(4.3)	84.7	(4.3)	4.8	(2.9)	23.5	(5.7)	71.7	(6
Castile and Leon*	4.5	(2.9)	26.7	(5.6)	68.7	(6.0)	1.9	(1.8)	31.5	(6.1)	66.6	(6.3)	7.6	(3.9)	32.6	(7.2)	59.8	(7
Castile-La Mancha•	8.3	(3.5)	10.4	(4.3)	81.2	(5.3)	5.3	(3.1)	7.1	(3.4)	87.6	(4.6)	4.4	(2.5)	17.8	(5.3)	77.8	(5
Catalonia*	6.2	(2.1)	71.6	(4.9)	22.3	(5.3)	6.1	(2.9)	36.3	(6.0)	57.6	(6.3)	6.8	(3.8)	53.5	(7.0)	39.7	(7
Comunidad Valenciana	7.1	(2.8)	42.2	(6.6)	50.7	(6.3)	0.0	C	28.5	(5.9)	71.5	(5.9)	1.0	(1.4)	38.6	(6.7)	60.4	(€
Extremadura*	0.0	С	16.7	(5.7)	83.3	(5.7)	4.1	(2.9)	22.0	(5.3)	74.0	(4.4)	3.4	(2.4)	23.4	(5.7)	73.2	(5
Galicia•	9.9	(4.4)	48.7	(7.1)	41.4	(6.2)	2.0	(2.0)	23.9	(6.4)	74.1	(6.7)	3.9	(2.7)	20.2	(5.3)	75.8	(€
La Rioja•	14.4	(0.3)	31.0	(0.4)	54.6	(0.4)	0.0	С	11.5	(0.2)	88.5	(0.2)	8.4	(0.3)	17.0	(0.3)	74.6	((
Madrid*	2.1	(2.1)	26.5	(6.5)	71.3	(6.8)	6.5	(3.8)	16.4	(4.8)	77.1	(6.3)	3.4	(2.5)	33.8	(6.8)	62.8	(7
Murcia*	2.1	(2.0)	8.4	(2.5)	89.5	(3.2)	3.6	(2.3)	11.8	(3.9)	84.6	(4.2)	2.6	(0.4)	13.7	(5.0)	83.8	(!
Navarre*	3.5	(2.4)	30.3	(4.0)	66.3	(4.7)	7.6	(3.3)	23.7	(4.5)	68.8	(4.6)	1.8	(1.8)	36.4	(4.6)	61.7	(.
United Kingdom	,																	
England	6.6	(2.4)	92.8	(2.5)	0.6	(0.5)	12.3	(3.3)	72.5	(4.2)	15.2	(3.1)	10.7	(2.0)	73.6	(3.7)	15.7	(3
Northern Ireland	12.8	(4.4)	74.7	(5.6)	12.5	(3.7)	14.6	(4.4)	54.5	(5.2)	30.9	(5.5)	22.0	(4.9)	64.9	(6.3)	13.1	(4
Scotland	16.1	(3.7)	74.5	(4.6)	9.3	(3.2)	27.6	(5.4)	46.7	(6.3)	25.7	(5.5)	29.7	(5.3)	45.2	(5.6)	25.1	(!
Wales	17.6	(3.9)	80.0	(4.1)	2.4	(1.5)	55.0	(3.9)	35.9	(3.6)	9.1	(2.9)	28.5	(4.1)	54.2	(4.7)	17.4	(3
United States																		
Massachusetts*	62.9	(8.5)	33.0	(8.1)	2.0	(2.0)	12.7	(5.3)	56.8	(7.6)	26.1	(6.5)	21.0	(6.6)	57.5	(7.6)	15.3	(4
North Carolina®	81.8	(5.2)	18.2	(5.2)	0.0	С	43.2	(7.1)	34.7	(6.2)	22.1	(5.9)	67.5	(7.0)	17.9	(5.9)	14.6	(4
Puerto Rico*	15.4	(4.5)	53.3	(6.4)	31.3	(6.0)	29.0	(8.7)	36.2	(5.7)	34.8	(9.9)	58.8	(8.8)	28.1	(6.7)	13.2	(7
61.1:																		_
Colombia	1 00			(7.5)	20.1	(7.5)	1.0	(1.0)	45.4	(7.0)	F2 =	(7.0)	26.7	(6.7)	200	(F. 4)	42.4	Ξ,
Bogotá	0.0	C (2, 7)	60.9	(7.5)	39.1	(7.5)	1.9	(1.9)	45.4	(7.8)	52.7	(7.9)	26.7	(6.7)	30.9	(5.4)	42.4	(6
Cali	2.8	(2.7)	81.4	(6.3)	15.8	(6.1)	9.6	(4.8)	54.2	(7.3)	36.3	(6.6)	12.5	(4.3)	55.8	(9.0)	31.7	(8
Manizales	8.2	(2.6)	83.3	(3.9)	8.5	(2.8)	6.9	(2.7)	49.1	(3.2)	44.0	(3.8)	21.3	(3.3)	38.6	(5.2)	40.1	(.
Medellín	10.9	(4.5)	71.4	(7.4)	17.8	(6.1)	8.8	(4.0)	42.9	(6.5)	48.3	(6.9)	16.4	(5.5)	59.1	(6.1)	24.4	(
United Arab Emirates	1		10-	1.5		(a	40 :		40.			(2.5)	E0 :			/		
Abu Dhabi•	46.8	(4.2)	48.7	(4.3)	4.5	(1.6)	43.4	(4.3)	42.1	(4.7)	14.5	(3.1)	59.1	(4.5)	38.0	(4.6)	3.0	(
Ajman	79.1	(7.1)	15.7	(4.8)	5.2	(5.1)	21.6	(8.5)	70.7	(10.0)	7.7	(3.9)	74.0	(3.7)	19.1	(3.7)	6.9	(
Dubai*	27.2	(0.2)	72.3	(0.2)	0.5	(0.0)	24.7	(0.2)	57.0	(0.2)	18.3	(0.1)	29.5	(0.2)	66.2	(0.2)	4.3	((
Fujairah	53.0	(5.2)	47.0	(5.2)	0.0	C	47.4	(4.0)	33.0	(5.3)	19.6	(1.4)	57.5	(4.8)	25.3	(4.5)	17.2	(2
Ras Al Khaimah	64.7	(7.9)	28.3	(6.2)	6.9	(5.0)	40.9	(7.5)	42.2	(7.7)	16.9	(6.5)	85.3	(7.8)	8.9	(6.8)	5.8	(4
Sharjah	37.6	(7.0)	62.4	(7.0)	0.0	C	40.4	(9.1)	45.1	(7.9)	14.5	(8.0)	47.4	(8.5)	46.8	(9.0)	5.7	(8
Umm Al Quwain	83.8	(0.4)	13.8	(0.4)	2.4	(0.1)	54.2	(0.4)	13.8	(0.5)	32.1	(0.4)	88.6	(0.1)	10.0	(0.3)	1.4	((

[•] PISA adjudicated region.

Notes: Results for the province of Quebec in this table should be treated with caution due to a possible non-response bias.

For Massachusetts and North Carolina, the desired target population covers 15-year-old students in grade 7 or above in public schools only (see Annex A2). Puerto Rico is an unincorporated territory of the United States. As such, PISA results for the United States do not include Puerto Rico. See Table II.4.33 for national data.

StatLink **ISP** http://dx.doi.org/10.1787/888933436536



Table B2.II.33 Grade repetition

Results based on students' self-reports

1103	uris based off studerris seri-re							Per	centage	e of stu	dents v	vho ha	d repea	ated a g	grade ir	1:					
											_				,					in pri	st once imary,
		Ne	ever	Primary	schoo	Tw	ice nore	Ne	Lowe	r secor		Tw	ice nore	Ne			ndary s	Tw	/ice	or u	econdary Ipper ndary 1001
		%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Q	Belgium																				
OECD	Flemish community*	82.5	(0.7)	16.4	(0.6)	1.1	(0.2)	94.5	(0.4)	5.2	(0.4)	0.3	(0.1)	95.7	(0.3)	4.1	(0.3)	0.1	(0.1)	24.3	(0.7)
	French community	77.6	(1.4)	19.1	(1.2)	3.2	(0.4)	73.7	(1.5)	24.7	(1.4)	1.6	(0.4)	85.9	(0.8)	13.8	(0.8)	0.3	(0.1)	46.0	(1.8)
	German-speaking community	89.1	(1.4)	10.0	(1.4)	0.9	(0.5)	86.5	(1.7)	12.5	(1.7)	0.9	(0.5)	89.2	(1.3)	10.8	(1.3)	0.0	С	30.5	(1.1)
	Canada	Lono	(0.0)		(0.0)		(0.0)		(0.0)		(0.0)				(0.0)		(0.0)		(0.4)	= 0	(0.0)
	Alberta	95.0 98.9	(0.9)	5.0	(0.9)	0.0	(0.0)	99.3 99.1	(0.3)	0.7	(0.3)	0.0	C (0.2)	99.5	(0.2)	0.5	(0.2)	0.1	(0.1)	5.8	(0.9)
	British Columbia Manitoba	97.4	(0.2)	1.1 2.5	(0.2)	0.0	(0.0)	97.2	(0.4)	0.7	(0.3)	0.2	(0.2)	99.6 98.7	(0.2)	0.3	(0.2)	0.0	(0.0)	2.1 5.7	(0.5)
	New Brunswick	93.9	(0.7)	5.6	(0.7)	0.1	(0.1)	96.2	(0.6)	3.0	(1.1)	0.3	(0.1)	99.2	(0.2)	0.5	(0.2)	0.3	(0.1)	9.5	(1.0)
	Newfoundland and Labrador	99.0	(0.4)	0.5	(0.3)	0.5	(0.2)	99.3	(0.3)	0.2	(0.1)	0.5	(0.2)	99.2	(0.3)	0.2	(0.1)	0.6	(0.1)	1.5	(0.4)
	Nova Scotia	98.4	(0.3)	1.4	(0.3)	0.2	(0.1)	99.0	(0.3)	0.9	(0.3)	0.2	(0.1)	99.5	(0.2)	0.4	(0.2)	0.2	(0.1)	2.5	(0.3)
	Ontario	97.8	(0.3)	1.8	(0.3)	0.4	(0.1)	98.2	(0.3)	1.5	(0.2)	0.3	(0.1)	98.9	(0.2)	0.9	(0.2)	0.2	(0.1)	3.9	(0.5)
	Prince Edward Island	98.4	(0.6)	1.3	(0.6)	0.3	(0.2)	99.3	(0.3)	0.5	(0.2)	0.3	(0.2)	99.9	(0.1)	0.1	(0.1)	0.0	С	1.8	(0.7)
	Quebec	93.7	(0.9)	5.6	(0.9)	0.6	(0.2)	92.4	(1.0)	6.6	(0.9)	1.0	(0.3)	99.6	(0.2)	0.1	(0.1)	0.3	(0.1)	12.0	(1.5)
	Saskatchewan	94.4	(0.8)	5.5	(0.8)	0.1	(0.1)	98.8	(0.3)	1.0	(0.3)	0.2	(0.1)	99.4	(0.2)	0.5	(0.2)	0.1	(0.0)	6.7	(0.8)
	Italy													'							
	Bolzano	97.8	(0.4)	1.5	(0.4)	0.7	(0.2)	94.7	(0.6)	4.4	(0.6)	0.9	(0.3)	87.1	(0.7)	12.2	(0.7)	0.7	(0.2)	17.9	(0.7)
	Campania	98.7	(0.4)	0.9	(0.4)	0.4	(0.2)	95.0	(0.8)	4.2	(0.8)	0.8	(0.4)	90.2	(1.2)	8.9	(1.1)	0.9	(0.4)	14.3	(1.5)
	Lombardia	98.3	(0.4)	1.5	(0.4)	0.2	(0.1)	92.7	(0.7)	6.3	(0.7)	1.0	(0.2)	86.7	(1.0)	13.0	(1.0)	0.3	(0.2)	20.2	(1.3)
	Trento	99.0	(0.3)	1.0	(0.3)	0.0	С	96.1	(0.5)	3.5	(0.5)	0.3	(0.1)	90.1	(0.7)	9.8	(0.7)	0.1	(0.1)	14.0	(1.0)
	Portugal																				
	Região Autónoma dos Açores	77.0	(1.0)	15.4	(0.9)	7.6	(0.7)	67.7	(1.0)	25.5	(1.1)	6.8	(0.6)	99.9	(0.1)	0.1	(0.1)	0.0	С	43.6	(0.8)
	Spain																				
	Andalusia•	84.0	(1.1)	14.4	(1.1)	1.6	(0.3)	67.7	(1.5)	29.1	(1.3)	3.2	(0.6)	m	m	m	m	m	m	37.7	(1.7)
	Aragon•	85.9	(1.1)	13.5	(1.0)	0.6	(0.2)	74.3	(1.5)	24.3	(1.4)	1.4	(0.3)	m	m	m	m	m	m	31.1	(1.7)
	Asturias*	87.7	(1.0)	11.7	(0.9)	0.5	(0.2)	76.8	(1.6)	22.5	(1.5)	0.7	(0.2)	m	m	m	m	m	m	27.6	(1.6)
	Balearic Islands*	78.7	(1.6)	20.3	(1.5)	1.0	(0.2)	67.9	(1.8)	29.2	(1.6)	2.9	(0.4)	m	m	m	m	m	m	40.4	(1.9)
	Basque Country•	89.1	(0.7)	10.4	(0.7)	0.5	(0.2)	81.1	(1.1)	17.9	(1.0)	1.0	(0.2)	m	m	m	m	m	m	23.6	(1.1)
	Canary Islands*	80.2	(1.4)	18.5	(1.4)	1.2	(0.2)	68.6	(1.3)	29.3	(1.3)	2.1	(0.3)	m	m	m	m	m	m	38.5	(1.4)
	Cantabria•	87.1	(1.6)	12.6	(1.5)	0.2	(0.1)	72.1	(1.6)	26.3	(1.6)	1.6	(0.3)	m	m	m	m	m	m	33.2	(1.9)
	Castile and Leon*	88.9	(0.9)	10.7	(0.9)	0.4	(0.2)	72.7	(1.6)	25.8	(1.5)	1.5	(0.3)	m	m	m	m	m	m	31.1	(1.6)
	Castile-La Mancha* Catalonia*	91.8	(1.0)	14.5 7.9	(0.9)	1.2 0.3	(0.3)	67.1 84.7	(1.3)	30.7 13.7	(1.2)	2.1 1.5	(0.4)	m	m	m	m	m	m	37.0 21.0	(1.3)
	Comunidad Valenciana*	89.4	(1.0)	9.8	(1.0)	0.3	(0.1)	69.1	(1.2)	28.1	(1.6)	2.8	(0.4)	m m	m	m	m	m	m	35.1	(1.6)
	Extremadura•	86.6	(1.1)	12.7	(1.1)	0.6	(0.2)	65.1	(1.9)	32.9	(1.7)	2.0	(0.4)	m	m m	m m	m m	m m	m m	38.0	(1.7)
	Galicia•	88.2	(1.1)	10.9	(1.0)	0.9	(0.2)	70.6	(1.6)	27.8	(1.5)	1.7	(0.4)	m	m	m	m	m	m	33.0	(1.6)
	La Rioja*	89.0	(0.7)	10.4	(0.7)	0.6	(0.2)	69.7	(0.7)	27.4	(0.8)	2.8	(0.5)	m	m	m	m	m	m	34.4	(0.6)
	Madrid*	87.0	(1.0)	12.8	(0.9)	0.1	(0.1)	74.4	(1.9)	23.6	(1.7)	2.1	(0.4)	m	m	m	m	m	m	31.0	(1.9)
	Murcia*	80.6	(1.2)	18.9	(1.1)	0.5	(0.2)	67.4	(1.4)	31.1	(1.3)	1.5	(0.3)	m	m	m	m	m	m	38.9	(1.2)
	Navarre*	89.4	(1.1)	10.1	(1.0)	0.5	(0.2)	82.6	(1.2)	16.5	(1.2)	0.9	(0.2)	m	m	m	m	m	m	23.1	(1.4)
	United Kingdom	1									(/										
	England	97.9	(0.3)	1.8	(0.2)	0.3	(0.1)	99.2	(0.1)	0.6	(0.1)	0.2	(0.1)	99.1	(0.2)	0.6	(0.1)	0.3	(0.1)	2.8	(0.3)
	Northern Ireland	98.4	(0.3)	1.4	(0.2)	0.2	(0.1)	99.6	(0.1)	0.2	(0.1)	0.2	(0.1)	99.2	(0.2)	0.6	(0.1)	0.2	(0.1)	2.1	(0.3)
	Scotland	97.8	(0.3)	1.9	(0.3)	0.3	(0.1)	99.2	(0.1)	0.6	(0.1)	0.2	(0.1)	99.6	(0.1)	0.2	(0.1)	0.2	(0.1)	2.8	(0.3)
	Wales	97.4	(0.4)	2.2	(0.3)	0.4	(0.1)	99.1	(0.2)	0.6	(0.1)	0.3	(0.1)	99.4	(0.2)	0.3	(0.1)	0.3	(0.1)	3.1	(0.4)
	United States																				
	Massachusetts*	96.4	(0.5)	3.4	(0.6)	0.1	(0.1)	98.1	(0.4)	1.7	(0.4)	0.1	(0.1)	99.5	(0.1)	0.5	(0.1)	0.0	C	4.9	(0.7)
	North Carolina®	89.8	(1.1)	9.8	(1.1)	0.4	(0.1)	96.4	(0.5)	3.5	(0.5)	0.1	(0.1)	99.1	(0.2)	0.8	(0.2)	0.1	(0.1)	13.0	(1.2)
	Puerto Rico*	84.8	(3.1)	12.8	(2.6)	2.4	(0.6)	91.2	(1.6)	6.8	(1.0)	2.0	(0.7)	98.8	(0.3)	1.2	(0.3)	0.0	С	20.2	(3.6)
S	Colombia																				
ner	Bogotá	85.8	(0.9)	11.0	(0.8)	3.2	(0.5)	72.2	(1.3)	19.7	(1.3)	8.1	(1.2)	98.0	(0.6)	2.0	(0.6)	0.0	С	35.9	(1.5)
Partners	Cali	78.7	(1.3)	17.6	(1.2)	3.6	(0.6)	73.0	(2.2)	20.8	(1.3)	6.2	(1.5)	99.3	(0.3)	0.7	(0.3)	0.0	С	39.6	(2.0)
-	Manizales	80.9	(1.1)	14.7	(1.0)	4.4	(0.5)	70.1	(1.7)	19.0	(1.2)	10.8	(0.9)	98.0	(0.5)	1.9	(0.5)	0.1	(0.1)	40.0	(1.7)
	Medellín	80.2	(1.8)	14.4	(1.2)	5.4	(1.1)	66.5	(2.4)	20.3	(1.5)	13.3	(2.3)	98.3	(0.5)	1.7	(0.5)	0.0	(O.1)		(2.6)
	United Arab Emirates																				
	Abu Dhabi•	91.6	(0.6)	7.4	(0.6)	1.0	(0.2)	93.2	(0.7)	5.5	(0.6)	1.3	(0.2)	97.6	(0.4)	1.4	(0.3)	1.0	(0.2)	12.9	(0.8)
	Ajman	89.2	(1.6)	9.2	(1.1)	1.6	(0.6)	92.8	(1.5)	6.1	(1.3)	1.1	(0.3)	97.1	(1.0)	1.5	(0.3)	1.4	(0.9)	14.8	(1.8)
	Dubai*	93.5	(0.4)	6.0	(0.4)	0.5	(0.1)	96.5	(0.3)	2.9	(0.2)	0.6	(0.1)	98.4	(0.2)	1.1	(0.2)	0.5	(0.1)	9.5	(0.4)
	Fujairah	90.6	(0.9)	8.4	(0.9)	1.0	(0.3)	94.8	(0.7)	4.4	(0.8)	0.8	(0.3)	97.6	(0.6)	0.8	(0.3)	1.6	(0.5)	12.8	(1.1)
	Ras Al Khaimah	90.6	(2.5)	8.7	(2.4)	0.7	(0.2)	93.9	(1.2)	5.5	(1.2)	0.6	(0.2)	97.1	(0.8)	2.0	(0.6)	1.0	(0.3)	13.4	(2.6)
	Sharjah	92.2	(1.3)	6.4	(0.8)	1.4	(0.7)	95.0	(1.0)	4.0	(0.9)	1.0	(0.2)	98.2	(0.8)	1.3	(0.6)	0.5	(0.3)	10.8	(1.8)
	Umm Al Quwain	82.5	(1.5)	14.7	(1.4)	2.8	(0.7)	89.3	(1.6)	8.6	(1.5)	2.1	(0.8)	95.7	(1.1)	3.1	(1.0)	1.2	(0.6)	23.1	(1.7)

^{*} PISA adjudicated region.

Notes: Results for the province of Quebec in this table should be treated with caution due to a possible non-response bias.

For Massachusetts and North Carolina, the desired target population covers 15-year-old students in grade 7 or above in public schools only (see Annex A2). Puerto Rico is an unincorporated territory of the United States. As such, PISA results for the United States do not include Puerto Rico. See Table II.5.9 for national data.

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Table B2.II.35 Programme orientation

Results hased on students' self-reports

Resi	ults based on students' self-r	eports					
					ed in a programme who		
		%	neral S.E.	Pre-vocationa %	al or vocational S.E.	% Mod	dular S.E.
۵	Belgium	70	J.L.	/0	J.L.	/0	J.L.
OECD	Flemish community*	47.4	(1.3)	52.6	(1.3)	0.0	С
0	French community	72.4	(2.4)	27.6	(2.4)	0.0	С
	German-speaking community	64.0	(1.2)	36.0	(1.2)	0.0	С
	Canada					1	
	Alberta	0.0	С	0.0	С	100.0	С
	British Columbia	0.0	С	0.0	С	100.0	С
	Manitoba	0.0	c	0.0	С	100.0	С
	New Brunswick	0.0	С	0.0	С	100.0	С
	Newfoundland and Labrador	0.0	С	0.0	С	100.0	С
	Nova Scotia	0.0	С	0.0	С	100.0	С
	Ontario	0.0	С	0.0	С	100.0	С
	Prince Edward Island	0.0	С	0.0	С	100.0	С
	Quebec	0.0	С	0.0	С	100.0	С
	Saskatchewan	0.0	С	0.0	С	100.0	С
	Italy	1				'	
	Bolzano	38.9	(0.3)	61.1	(0.3)	0.0	С
	Campania	52.8	(1.3)	47.2	(1.3)	0.0	С
	Lombardia	47.0	(2.9)	53.0	(2.9)	0.0	С
	Trento	43.9	(0.6)	56.1	(0.6)	0.0	c
	Portugal	'					
	Região Autónoma dos Açores	87.4	(0.5)	12.6	(0.5)	0.0	С
	Spain			'			
	Andalusia •	98.4	(0.7)	1.6	(0.7)	0.0	С
	Aragon•	97.5	(0.6)	2.5	(0.6)	0.0	С
	Asturias*	99.7	(0.2)	0.3	(0.2)	0.0	С
	Balearic Islands*	97.7	(0.4)	2.3	(0.4)	0.0	С
	Basque Country*	99.7	(0.2)	0.3	(0.2)	0.0	С
	Canary Islands*	99.0	(0.3)	1.0	(0.3)	0.0	С
	Cantabria*	98.8	(0.3)	1.2	(0.3)	0.0	С
	Castile and Leon*	99.5	(0.1)	0.5	(0.1)	0.0	С
	Castile-La Mancha*	98.8	(0.3)	1.2	(0.3)	0.0	С
	Catalonia*	100.0	С	0.0	С	0.0	С
	Comunidad Valenciana*	96.8	(0.8)	3.2	(0.8)	0.0	С
	Extremadura*	98.0	(0.6)	2.0	(0.6)	0.0	С
	Galicia•	99.8	(0.2)	0.2	(0.2)	0.0	С
	La Rioja•	96.4	(0.5)	3.6	(0.5)	0.0	С
	Madrid*	99.8	(0.1)	0.2	(0.1)	0.0	С
	Murcia•	98.5	(0.5)	1.5	(0.5)	0.0	С
	Navarre*	99.8	(0.2)	0.2	(0.2)	0.0	С
	United Kingdom	'					
	England	100.0	С	0.0	С	0.0	С
	Northern Ireland	100.0	(0.0)	0.0	(0.0)	0.0	С
	Scotland	90.7	(2.9)	9.3	(2.9)	0.0	С
	Wales	99.7	(0.2)	0.3	(0.2)	0.0	С
	United States	'					
	Massachusetts*	100.0	С	0.0	С	0.0	С
	North Carolina*	100.0	Ċ	0.0	C	0.0	c
	Puerto Rico•	100.0	С	0.0	С	0.0	С
Partners	Colombia	011	(0.0)	100	(2.0)	1 60	
artı	Bogotá	81.1	(2.9)	18.9	(2.9)	0.0	С
-	Cali	65.8	(3.5)	34.2	(3.5)	0.0	C
	Manizales	91.4	(2.7)	8.6	(2.7)	0.0	C
	Medellín	84.8	(2.7)	15.2	(2.7)	0.0	С
	United Arab Emirates	0==	/4 45		/4 4		
	Abu Dhabi•	95.5	(1.1)	4.5	(1.1)	0.0	С
	Ajman	85.1	(0.7)	14.9	(0.7)	0.0	С
	Dubai*	98.3	(0.0)	1.7	(0.0)	0.0	С
	Fujairah	95.1	(0.2)	4.9	(0.2)	0.0	С
	Ras Al Khaimah	93.6	(0.4)	6.4	(0.4)	0.0	С
	Sharjah	98.9	(0.1)	1.1	(0.1)	0.0	С
	Umm Al Quwain	86.9	(0.2)	13.1	(0.2)	0.0	C

^{*} PISA adjudicated region.

Notes: Results for the province of Quebec in this table should be treated with caution due to a possible non-response bias.

For Massachusetts and North Carolina, the desired target population covers 15-year-old students in grade 7 or above in public schools only (see Annex A2). Puerto Rico is an unincorporated territory of the United States. As such, PISA results for the United States do not include Puerto Rico. See Table II.5.14 for national data.

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[Part 1/2]

Table B2.II.36 School admissions policies

res	uits based on school principa			f studen	ts in sch	nools wh	ere the	followi	ng factor	rs are "n	ever". "	sometin	nes" or '	"always	" consid	ered for	admissi	on to se	-hool:
				ord of a					ig ideto	Jane II	,	3011101111	103 01		nts' endo				
		Stude		ding pla				Re	comme	ndation	of feed	er scho	ols		religiou				
		Ne	ver	Some	times	Alw	ays	Ne	ever	Some	times	Alw	/ays	Ne	ever	Some	etimes	Alv	vays
		%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
Q:	Belgium									,									
OECD	Flemish community•	31.2	(3.5)	32.3	(4.1)	36.5	(4.2)	45.1	(3.7)	42.3	(4.0)	12.6	(2.8)	54.9	(4.2)	27.2	(3.9)	18.0	(3.2)
Ĭ	French community	56.6	(6.0)	25.9	(5.1)	17.5	(4.6)	65.9	(5.2)	32.9	(5.2)	1.2	(0.8)	14.2	(3.9)	12.0	(3.6)	73.8	(5.1)
	German-speaking community	41.0	(0.4)	51.0	(0.5)	8.0	(0.4)	54.4	(0.6)	30.6	(0.5)	15.1	(0.5)	39.3	(0.5)	14.8	(0.4)	46.0	(0.6)
	Canada	1	(E.O.)		(E.O.)		(6.4)		(= =)		(= 4)		(6.4)		(F. O.)	0.54	/E C)	0.00	(E.O.)
	Alberta	38.9	(5.2)	33.6	(5.9)	27.5	(6.1)	30.2	(5.5)	33.8	(5.1)	36.0	(6.1)	38.1	(5.8)	35.1	(5.6)	26.8	(5.3)
	British Columbia	46.4	(7.3)	36.1	(7.3)	17.5	(4.5)	39.2	(6.6)	36.5	(6.5)	24.3	(6.0)	71.0	(5.2)	19.8	(5.3)	9.2	(2.9)
	Manitoba New Brungwick	45.6	(3.3)	38.9	(2.6)	15.5	(2.5)	27.9	(3.2)	44.3	(3.0)	27.9	(2.5)	60.2	(2.6)	31.3	(2.2)	8.5	(1.4)
	New Brunswick Newfoundland and Labrador	53.0	(3.1)	27.9 9.8	(2.7)	19.1 37.1	(2.1)	32.8 43.1	(2.4)	43.9 10.1	(2.9)	23.2 46.8	(3.1)	88.0 85.9	(2.4)	12.0 11.1	(2.4)	0.0 3.0	(0.3)
	Nova Scotia	62.0	(4.7)	25.7	(4.8)	12.3	(4.4)	43.5	(6.3)	51.8	(5.4)	4.8	(3.3)	76.8	(4.7)	23.2	(4.7)	0.0	(U.3)
	Ontario	38.1	(5.3)	32.0	(5.1)	29.9	(5.3)	28.1	(5.1)	33.8	(5.1)	38.1	(5.8)	51.2	(5.3)	28.8	(4.5)	20.0	(4.1)
	Prince Edward Island	43.9	(2.9)	19.6	(1.2)	36.4	(2.7)	28.2	(2.8)	39.4	(1.9)	32.3	(1.9)	82.2	(2.4)	4.4	(1.4)	13.4	(2.1)
	Quebec	17.5	(3.8)	34.7	(5.1)	47.9	(6.0)	16.1	(4.5)	73.7	(5.0)	10.1	(2.3)	64.3	(6.0)	15.8	(4.8)	19.9	(4.5)
	Saskatchewan	37.2	(4.0)	33.2	(3.6)	29.7	(3.9)	27.2	(4.3)	36.5	(3.5)	36.3	(3.6)	59.5	(3.5)	19.3	(3.2)	21.2	(2.2)
	Italy				(((/		(,		((,- ,-		(,
	Bolzano	41.9	(0.3)	39.6	(0.3)	18.5	(0.4)	67.2	(0.4)	27.1	(0.3)	5.7	(0.2)	76.4	(0.4)	19.2	(0.3)	4.4	(0.2)
	Campania	23.0	(6.2)	30.4	(6.6)	46.6	(7.2)	16.7	(5.4)	36.9	(7.0)	46.4	(6.6)	20.1	(6.0)	8.7	(3.9)	71.2	(6.4)
	Lombardia	32.1	(5.5)	31.6	(6.6)	36.3	(7.4)	14.2	(5.3)	45.7	(7.0)	40.1	(6.5)	43.0	(8.3)	16.9	(5.0)	40.1	(7.8)
	Trento	36.8	(1.1)	28.4	(1.4)	34.8	(1.8)	24.1	(0.7)	33.4	(1.0)	42.4	(1.7)	64.6	(1.1)	13.3	(0.5)	22.1	(1.2)
	Portugal																		
	Região Autónoma dos Açores	33.3	(0.5)	27.4	(0.7)	39.3	(0.6)	74.1	(0.5)	24.5	(0.5)	1.4	(0.0)	58.0	(0.3)	18.1	(0.4)	23.8	(0.4)
	Spain																		
	Andalusia*	89.3	(4.5)	7.7	(3.8)	3.0	(2.5)	83.0	(4.5)	8.9	(3.9)	8.2	(4.1)	89.8	(4.1)	2.1	(2.1)	8.1	(3.5)
	Aragon•	80.4	(5.0)	14.6	(5.6)	5.1	(3.2)	83.4	(5.0)	10.4	(3.6)	6.2	(3.5)	82.5	(5.4)	8.0	(4.1)	9.5	(3.5)
	Asturias*	92.5	(3.8)	5.6	(3.3)	1.9	(1.9)	87.7	(5.1)	12.3	(5.1)	0.0	С	90.3	(4.4)	4.2	(3.0)	5.5	(3.3)
	Balearic Islands•	86.0	(5.4)	10.0	(4.5)	4.1	(3.0)	89.7	(3.5)	6.0	(3.5)	4.3	(0.2)	81.7	(5.5)	7.2	(3.6)	11.2	(4.1)
	Basque Country•	86.7	(4.1)	6.8	(2.9)	6.5	(3.0)	74.1	(4.6)	11.0	(2.8)	14.9	(4.6)	66.2	(5.3)	14.4	(3.4)	19.4	(4.4)
	Canary Islands*	76.0	(6.1)	18.2	(5.5)	5.8	(2.7)	72.4	(5.8)	25.6	(6.1)	2.0	(2.0)	75.4	(4.4)	4.0	(2.8)	20.6	(4.4)
	Cantabria*	79.7	(5.6)	16.2	(5.0)	4.1	(2.5)	89.8	(3.8)	6.2	(2.5)	4.0	(2.8)	78.6	(4.9)	5.8	(3.3)	15.6	(4.8)
	Castile and Leon* Castile-La Mancha*	85.6 76.6	(5.0) (6.2)	10.3	(4.2)	4.0 5.1	(2.5)	87.0 86.8	(4.5) (4.4)	8.4 11.1	(3.7)	4.6 2.1	(2.7)	70.3 78.8	(5.9) (4.8)	8.7 12.5	(3.7)	21.0 8.7	(6.4)
	Catalonia •	83.3	(5.1)	12.7	(4.3)	4.0	(2.8)	84.1	(5.5)	13.9	(5.1)	2.0	(2.0)	84.5	(4.3)	7.2	(3.2)	8.3	(2.8)
	Comunidad Valenciana*	81.3	(6.1)	16.6	(5.7)	2.1	(2.1)	87.9	(4.9)	9.9	(4.3)	2.3	(2.2)	81.5	(4.8)	10.8	(4.0)	7.7	(4.0)
	Extremadura*	87.4	(5.0)	10.5	(4.4)	2.2	(2.2)	94.1	(3.3)	3.8	(2.7)	2.1	(1.9)	88.3	(4.7)	4.0	(2.7)	7.6	(3.8)
	Galicia•	87.8	(4.7)	10.1	(4.2)	2.1	(2.0)	92.7	(3.4)	6.1	(3.2)	1.1	(1.1)	84.7	(3.9)	3.7	(2.6)	11.6	(3.9)
	La Rioja•	93.3	(0.2)	0.0	С	6.7	(0.2)	83.7	(0.3)	8.8	(0.2)	7.6	(0.2)	80.8	(0.2)	12.9	(0.3)	6.3	(0.1)
	Madrid*	67.1	(6.4)	27.7	(6.3)	5.2	(3.1)	73.3	(6.0)	19.8	(6.3)	6.9	(3.6)	61.6	(5.8)	21.3	(5.3)	17.1	(5.0)
	Murcia•	86.4	(5.2)	13.6	(5.2)	0.0	С	90.4	(3.4)	7.5	(2.7)	2.0	(2.0)	86.7	(4.3)	5.7	(3.3)	7.6	(3.8)
	Navarre*	82.2	(3.1)	15.2	(2.1)	2.6	(2.3)	88.0	(4.0)	10.2	(3.6)	1.8	(1.8)	85.3	(2.7)	7.0	(2.2)	7.7	(3.4)
	United Kingdom																		
	England	70.3	(4.1)	9.5	(2.8)	20.2	(3.3)	66.1	(4.6)	20.0	(3.9)	13.8	(3.0)	70.7	(4.3)	17.6	(3.2)	11.6	(3.0)
	Northern Ireland	35.3	(5.1)	7.6	(3.0)	57.0	(4.7)	38.9	(5.6)	31.6	(4.8)	29.5	(5.3)	67.9	(6.1)	20.0	(5.1)	12.2	(3.8)
	Scotland	76.3	(4.1)	8.5	(3.0)	15.3	(3.4)	54.8	(5.5)	26.4	(5.4)	18.8	(3.8)	78.6	(5.0)	13.4	(4.2)	8.0	(3.0)
	Wales	72.0	(4.1)	7.4	(2.3)	20.6	(3.8)	47.6	(4.4)	21.2	(3.5)	31.2	(4.0)	63.9	(3.8)	15.7	(3.1)	20.4	(3.3)
	United States					ı						ı				ı			
	Massachusetts*	60.6	(6.6)	10.1	(4.5)	26.2	(6.2)	66.3	(6.3)	11.2		21.1	(5.2)		(5.7)	7.7	(3.8)	6.7	(3.8)
	North Carolina*	56.1	(8.4)	17.6	(5.2)	26.3	(6.6)	54.9	(6.9)	32.4	(5.9)	12.7	(4.8)	80.0	(5.6)	13.4	(5.1)	6.6	(3.8)
	Puerto Rico*	4.3	(2.6)	12.8	(4.8)	82.9	(5.6)	21.8	(4.7)	40.4	(7.5)	37.8	(7.1)	48.8	(7.4)	29.0	(8.4)	22.1	(6.3)
rs	Colombia																		
Partners	Bogotá	41.9	(6.5)	14.0	(5.4)	44.1	(6.8)	58.1	(6.7)	14.1	(5.7)	27.8	(5.4)	62.5	(5.4)	8.6	(6.0)	28.9	(9.3)
Par	Cali	15.4	(6.2)	31.8	(8.0)	52.8	(8.8)	49.9	(7.5)	36.3	(6.8)	13.8	(5.3)	71.3	(7.3)	19.3	(6.3)	9.5	(4.2)
	Manizales	15.5	(2.2)	33.4	(3.4)	51.1	(3.7)	31.2	(3.7)	50.0	(3.7)	18.9	(2.8)	54.5	(3.2)	24.3	(5.1)	21.2	(5.2)
	Medellín	35.3	(7.0)	29.1	(6.8)	35.6	(7.6)	48.2	(8.4)	46.0	(9.1)	5.8	(3.2)	57.3	(7.2)	16.2	(5.7)	26.5	(6.1)
	United Arab Emirates									,									
	Abu Dhabi*	13.3	(3.2)	27.9	(3.7)	58.8	(4.4)	23.2	(4.2)	48.8	(5.5)	28.0	(4.3)	36.7	(4.6)	32.0	(5.4)	31.3	(5.3)
	Ajman	4.6	(4.6)	21.1	(4.5)	74.3	(6.4)	3.7	(3.8)	64.2	(6.2)	32.1	(4.7)	26.5	(9.0)	32.5	(8.4)	41.1	(8.7)
	Dubai•	2.7	(0.0)	18.8	(0.1)	78.5	(0.1)	7.0	(0.1)	56.6	(0.2)	36.4	(0.2)	40.7	(0.2)	24.6	(0.1)	34.7	(0.2)
	Fujairah	4.6	(0.3)	27.8	(4.7)	67.6	(4.8)	14.2	(2.5)	62.6	(5.4)	23.2	(4.8)	17.8	(3.7)	39.0	(4.7)	43.3	(5.4)
	Ras Al Khaimah	11.7	(5.1)	45.3	(9.8)	43.0	(8.5)	27.9	(8.2)	47.6	(9.1)	24.5	(8.4)	33.7	(9.0)	46.1	(10.6)	20.1	(8.4)
	Sharjah	4.4	(4.5)	17.2	(4.9)	78.4	(6.8)	24.0	(12.0)	45.7	(9.8)	30.3	(8.5)	28.0	(11.3)	28.9	(9.3)	43.0	(10.5)
	Umm Al Quwain	0.0	С	61.3	(0.4)	38.7	(0.4)	24.6	(0.4)	69.1	(0.4)	6.3	(0.1)	21.9	(0.4)	62.0	(0.4)	16.1	(0.3)

^{*} PISA adjudicated region.

Notes: Results for the province of Quebec in this table should be treated with caution due to a possible non-response bias.

For Massachusetts and North Carolina, the desired target population covers 15-year-old students in grade 7 or above in public schools only (see Annex A2). Puerto Rico is an unincorporated territory of the United States. As such, PISA results for the United States do not include Puerto Rico. See Table II.5.18 for national data.

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[Part 2/2]

Table B2.II.36 School admissions policies

res	uits based on school principal	· ·		f studer	nts in sch	nools wh	ere the	followin	g factor	rs are "n	ever". "	sometin	es" or '	'always'	' consid	ered for	admissi	on to sc	hool:
					tudent r		cre une			given t				ua,s	COLISIG		441111001		
					special		nme			ent or fo					Resider	nce in a	particu	lar area	
		Ne	ver	Some	etimes	Alw	ays	Ne	ver	Some	times	Alw	ays	Ne	ver	Some	times	Alw	ays
		%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.	%	S.E.
8	Belgium													ı					
OECD	Flemish community•	26.9	(2.9)	67.1	(3.3)	6.0	(1.6)	49.8	(3.9)	23.8	(3.8)	26.4	(3.4)	93.3	(1.9)	6.0	(1.8)	0.7	(0.6)
	French community	21.7	(3.7)	49.3	(5.1)	28.9	(5.2)	33.7	(4.8)	31.8	(5.3)	34.5	(5.1)	61.1	(5.2)	34.3	(5.2)	4.6	(2.2)
	German-speaking community	21.0	(0.5)	77.6	(0.5)	1.4	(0.1)	92.9	(0.1)	1.4	(0.1)	5.7	(0.1)	76.1	(0.5)	22.5	(0.5)	1.4	(0.1)
	Canada Alberta	14.2	(4.4)	51.5	(5.9)	34.3	(5.9)	40.6	(6.4)	43.1	(6.4)	16.3	(4.7)	7.8	(3.3)	33.5	(5.7)	58.7	(5.4)
	British Columbia	16.2	(5.8)	58.5	(7.4)	25.3	(6.2)	31.7	(5.1)	34.7	(6.6)	33.6	(6.9)	12.4	(3.8)	21.9	(5.3)	65.7	(5.6)
	Manitoba	15.8	(3.0)	63.1	(2.9)	21.2	(2.1)	56.4	(2.7)	34.9	(2.3)	8.6	(1.8)	11.5	(2.8)	18.3	(3.0)	70.2	(3.1)
	New Brunswick	55.1	(2.5)	39.6	(2.0)	5.3	(2.5)	92.0	(0.9)	8.0	(0.9)	0.0	С	11.0	(2.0)	19.5	(2.6)	69.6	(2.6)
	Newfoundland and Labrador	39.5	(2.9)	30.3	(3.9)	30.2	(4.0)	81.1	(0.9)	12.2	(0.6)	6.7	(0.5)	23.7	(2.9)	7.2	(2.1)	69.2	(3.6)
	Nova Scotia	22.6	(6.3)	59.3	(5.5)	18.0	(4.8)	60.3	(4.3)	33.7	(3.9)	6.0	(1.2)	8.4	(4.2)	9.9	(4.4)	81.7	(5.4)
	Ontario	17.7	(3.9)	40.6	(4.6)	41.7	(5.0)	56.9	(4.8)	28.7	(4.6)	14.4	(3.4)	11.7	(3.4)	10.4	(3.4)	77.9	(4.4)
	Prince Edward Island	27.8	(2.8)	56.5	(3.5)	15.7	(1.4)	83.8	(3.3)	16.2	(3.3)	0.0	C	5.6	(5.2)	22.0	(1.1)	72.4	(4.5)
	Quebec	10.4	(4.2)	63.6	(6.5)	25.9	(5.0)	42.0	(6.1)	32.6	(6.8)	25.4	(5.8)	24.8	(5.2)	19.8	(5.1)	55.4	(6.1)
	Saskatchewan	21.0	(4.1)	42.9	(4.0)	36.1	(4.2)	76.7	(3.1)	15.3	(2.8)	8.0	(1.4)	29.0	(3.8)	20.7	(2.7)	50.4	(3.8)
	Italy	21.0	(0.2)	110	(0.4)	22.4	(0.4)	01.1	(0.2)	6.0	(0.2)	2.0	(0,0)	20.6	(0.4)	12.2	(0.4)	6.2	(0.2)
	Bolzano Campania	21.8 7.8	(0.2)	44.8 26.7	(0.4)	33.4 65.4	(0.4)	91.1 11.1	(0.2)	6.9 38.6	(0.2)	2.0 50.3	(0.0)	80.6 29.0	(0.4)	13.2 43.1	(0.4)	6.2 28.0	(0.2)
	Lombardia	13.1	(5.1)	35.0	(6.6)	51.8	(7.2)	22.8	(6.0)	52.8	(7.4)	24.4	(6.3)	20.9	(6.1)	44.2	(7.4)	34.9	(8.1)
	Trento	17.6	(0.6)	34.9	(1.2)	47.6	(1.1)	41.4	(0.9)	50.9	(1.5)	7.7	(0.8)	41.6	(1.1)	18.6	(1.3)	39.8	(0.9)
	Portugal		(010)		(/		(111)		(010)		(1107		(0.0)		(****)	1010	(110)		(010)
	Região Autónoma dos Açores	8.0	(0.2)	23.4	(0.2)	68.6	(0.3)	39.7	(0.5)	12.6	(0.2)	47.6	(0.4)	13.6	(0.6)	2.1	(0.1)	84.3	(0.6)
	Spain																		
	Andalusia•	58.9	(0.8)	24.0	(6.1)	17.1	(5.3)	41.5	(7.4)	16.7	(4.9)	41.8	(7.8)	18.7	(5.1)	16.5	(5.1)	64.8	(7.0)
	Aragon•	54.5	(8.5)	29.2	(7.3)	16.3	(6.0)	58.7	(7.3)	23.0	(4.7)	18.3	(6.2)	35.5	(7.6)	16.0	(5.0)	48.5	(6.7)
	Asturias*	57.8	(7.7)	25.1	(5.8)	17.2	(5.9)	34.9	(6.9)	28.8	(6.9)	36.3	(6.8)	10.9	(4.3)	13.8	(5.3)	75.3	(5.2)
	Balearic Islands•	53.4	(7.1)	36.1	(7.4)	10.5	(4.8)	30.2	(6.5)	21.1	(5.7)	48.7	(4.9)	17.1	(4.8)	12.2	(4.9)	70.7	(5.9)
	Basque Country	48.6	(5.3)	30.7	(4.9)	20.7	(5.1)	35.2	(5.2)	21.9	(4.4)	42.9	(5.9)	27.2	(6.0)	12.9	(3.4)	59.9	(6.6)
	Canary Islands Canary Islands	34.1	(5.5)	55.6	(5.8)	10.3	(4.6)	23.4	(6.2)	34.3	(5.9)	42.3	(7.7)	3.0	(1.1)	9.8	(4.2)	87.3	(4.0)
	Cantabria • Castile and Leon •	56.6 46.8	(6.1) (6.9)	26.5 30.7	(4.6) (5.6)	16.9 22.5	(5.0)	51.5 36.4	(5.5) (5.9)	20.9 25.5	(5.7) (6.2)	27.7 38.1	(6.1)	25.0 30.1	(5.6)	20.2	(5.5) (5.5)	54.8 45.3	(6.6)
	Castile-La Mancha•	45.6	(6.9)	35.1	(6.3)	19.3	(5.5)	41.3	(4.6)	19.4	(5.4)	39.3	(4.2)	27.2	(5.9)	11.9	(4.6)	60.9	(6.3)
	Catalonia•	59.7	(6.3)	26.0	(6.4)	14.3	(3.5)	19.8	(5.4)	17.7	(5.2)	62.6	(5.6)	11.6	(3.7)	9.8	(4.4)	78.6	(5.0)
	Comunidad Valenciana*	45.7	(7.2)	29.6	(5.8)	24.8	(6.7)	19.0	(5.8)	21.9	(5.8)	59.1	(6.8)	20.3	(5.5)	21.7	(5.9)	58.0	(7.0)
	Extremadura*	67.8	(6.1)	16.0	(5.7)	16.2	(5.7)	65.9	(6.9)	17.4	(5.9)	16.6	(4.7)	51.9	(5.5)	10.3	(3.2)	37.8	(5.6)
	Galicia•	60.4	(7.4)	24.6	(6.8)	15.0	(4.9)	48.8	(6.6)	23.5	(5.0)	27.7	(6.0)	23.0	(4.8)	6.9	(3.5)	70.1	(5.8)
	La Rioja•	50.8	(0.4)	28.5	(0.4)	20.7	(0.3)	34.9	(0.5)	14.4	(0.3)	50.7	(0.5)	40.5	(0.4)	16.0	(0.2)	43.5	(0.5)
	Madrid*	39.7	(4.8)	35.3	(7.6)	25.0	(7.1)	4.7	(3.5)	29.4	(7.4)	65.9	(7.4)	16.4	(5.7)	27.8	(6.2)	55.8	(6.7)
	Murcia•	50.8	(7.3)	31.5	(6.9)	17.7	(4.6)	35.6	(7.1)	19.0	(4.7)	45.4	(7.2)	26.5	(6.4)	7.5	(2.7)	66.1	(6.3)
	Navarre•	64.9	(4.3)	21.7	(5.2)	13.4	(3.4)	50.7	(3.2)	18.5	(4.3)	30.9	(4.1)	27.9	(4.1)	17.5	(4.1)	54.6	(5.7)
	United Kingdom	L 5C 1	(F. 2)	22.4	(4.5)	10.5	(2.7)	22.0	(2 E)	22.2	(4.0)	1440	(4.1)	101	(2.2)	244	(4.2)	l	(4.4)
	England Northern Ireland	56.1 35.2	(5.3)	33.4 47.3	(4.5) (4.9)	10.5 17.4	(2.7)	22.0 17.3	(3.5)	33.2 55.7	(4.0)	44.8 27.0	(4.1)	18.1 39.4	(3.2)	24.4 31.6	(4.2)	57.5 29.0	(4.4)
	Scotland	44.0	(5.2)	42.1	(5.0)	13.9	(3.8)	55.4	(5.9)	39.0	(5.8)	5.6	(2.4)	11.4	(3.4)	22.6	(4.6)	66.0	(4.8)
	Wales	48.0	(4.6)	36.9	(4.6)	15.1	(3.1)	63.8	(3.5)	19.9	(3.2)	16.3	(3.1)	26.7	(3.9)	30.1	(4.3)	43.2	(4.0)
	United States		,		, , , , ,		((,		,,		((,		, , , ,		(,
	Massachusetts*	59.1	(6.2)	22.0	(5.0)	15.4	(4.9)	77.3	(6.9)	17.5	(6.0)	0.0	С	29.0	(5.9)	6.3	(3.6)	61.3	(6.8)
	North Carolina®	34.2	(7.4)	43.5	(6.8)	20.8	(5.7)	75.4	(5.6)	18.4	(4.4)	6.2	(3.5)	12.5	(4.8)	7.2	(3.8)	80.3	(6.0)
	Puerto Rico*	6.3	(4.1)	39.9	(9.1)	53.8	(7.4)	61.8	(7.7)	19.4	(6.8)	18.9	(5.7)	45.1	(9.5)	27.1	(8.4)	27.8	(7.8)
- 0	Colombia																		
Partners	Bogotá	33.8	(6.4)	34.8	(7.4)	31.4	(7.1)	42.5	(8.7)	39.5	(8.1)	18.0	(6.0)	50.6	(7.2)	32.1	(7.1)	17.3	(6.7)
Part	Cali	33.1	(6.5)	46.2	(6.9)	20.7	(6.3)	43.9	(6.6)	43.9	(7.5)	12.2	(4.5)	64.8	(7.5)	21.9	(6.1)	13.3	(5.2)
_	Manizales	33.8	(5.2)	40.4	(3.7)	25.8	(2.4)	42.4	(3.7)	44.7	(5.8)	12.9	(5.0)	38.8	(4.1)	41.0	(4.1)	20.2	(4.0)
	Medellín	42.4	(7.8)	44.2	(7.7)	13.3	(5.2)	52.0	(7.9)	21.7	(6.8)	26.3	(6.1)	51.2	(7.4)	30.0	(6.3)	18.8	(5.9)
	United Arab Emirates													,					
	Abu Dhabi*	23.0	(3.8)	42.7	(5.0)	34.3	(4.7)	18.8	(3.5)	30.0	(5.2)	51.2	(5.3)	19.9	(4.4)	22.6	(3.9)	57.5	(4.5)
	Ajman	15.7	(8.1)	59.2	(8.1)	25.1	(7.2)	21.8	(4.6)	42.6	(4.9)	35.6	(6.3)	18.1	(1.4)	36.6	(4.8)	45.3	(4.7)
	Dubai*	22.9	(0.2)	40.4	(0.2)	36.7	(0.2)	6.3	(0.1)	35.2	(0.2)	58.5	(0.2)	40.1	(0.2)	31.3	(0.2)	28.6	(0.2)
	Fujairah	9.4	(3.4)	52.9	(5.1)	37.7	(5.0)	45.1	(5.0)	20.6	(4.1)	34.3	(5.8)	16.7	(4.6)	13.3	(5.2)	70.0	(6.0)
	Ras Al Khaimah	25.7	(5.2)	40.8	(7.5)	33.5	(7.7)	27.4	(8.5)	39.3	(8.5)	33.3	(8.4)	17.2	(6.9)	11.4	(6.6)	71.4	(6.3)
	Sharjah Umm Al Quwain	16.0	(9.8)	53.0	(10.5)	31.0	(7.4)	12.4	(7.1)	32.2	(7.9)	55.4	(9.6)	18.0	(7.4)	28.0	(9.5)	54.0	(9.1)
	Omini Ai Quwairi	19.5	(0.3)	49.9	(0.4)	30.7	(0.3)	23.4	(0.4)	55.1	(0.4)	21.5	(0.4)	5.4	(0.3)	31.3	(0.6)	63.3	(0.6)

^{*} PISA adjudicated region.

Notes: Results for the province of Quebec in this table should be treated with caution due to a possible non-response bias.

For Massachusetts and North Carolina, the desired target population covers 15-year-old students in grade 7 or above in public schools only (see Annex A2). Puerto Rico is an unincorporated territory of the United States. As such, PISA results for the United States do not include Puerto Rico.

See Table II.5.18 for national data.

StatLink **ISB** http://dx.doi.org/10.1787/888933436536



[Part 1/1]

Table B2.II.45 Average time per week spent learning in regular lessons

Results based on students' reports

			Regular languag	e_of_instruction			Total lear	ning time
	Regular science lessons		Regular language-of-instruction lessons		Regular mathematics lessons		in regular lessons ¹	
	Hours	S.E.	Hours	S.E.	Hours	S.E.	Hours	S.E.
Belgium			1					
Flemish community*	3.0	(0.1)	3.2	(0.0)	3.2	(0.0)	27.7	(0.1
French community	2.9	(0.1)	3.8	(0.0)	3.7	(0.0)	27.7	(0.1
German-speaking community	2.3	(0.1)	3.8	(0.1)	3.5	(0.0)	28.8	(0.1
Canada								
Alberta	5.4	(0.1)	5.3	(0.1)	5.2	(0.1)	28.4	(0.3
British Columbia	4.7	(0.2)	4.9	(0.2)	4.7	(0.2)	27.9	(0.8)
Manitoba	4.4	(0.1)	4.4	(0.1)	4.6	(0.1)	27.1	(0.2
New Brunswick	3.8	(0.1)	5.1	(0.1)	4.9	(0.0)	26.8	(0.2
Newfoundland and Labrador	4.7	(0.1)	4.3	(0.1)	4.3	(0.1)	26.0	(0.2
Nova Scotia	4.4	(0.1)	5.0	(0.1)	5.9	(0.1)	26.9	(0.3
Ontario	4.8	(0.1)	5.3	(0.1)	4.9	(0.1)	26.9	(0.1
Prince Edward Island	5.0	(0.2)	5.7	(0.2)	5.3	(0.2)	26.8	(0.3
Quebec	5.2	(0.1)	5.4	(0.1)	5.1	(0.1)	26.7	(0.2
Saskatchewan	3.6	(0.1)	4.9	(0.1)	4.5	(0.1)	25.8	
	3.0	(0.1)	4.9	(0.1)	4.3	(0.1)	23.0	(0.2
Italy	2.0	(0.0)	1 26	(0.1)	2.0	(0.0)	20.0	(0.1)
Bolzano	2.9	(0.0)	3.6	(0.1)	3.0	(0.0)	30.0	(0.1)
Campania	2.4	(0.1)	5.1	(0.1)	4.0	(0.1)	28.8	(0.2)
Lombardia	2.7	(0.1)	4.5	(0.1)	3.7	(0.1)	28.5	(0.2
Trento	2.6	(0.0)	4.2	(0.1)	3.4	(0.0)	28.4	(0.1
Portugal								
Região Autónoma dos Açores	3.2	(0.1)	4.4	(0.1)	4.8	(0.1)	28.1	(0.3
Spain								
Andalusia*	3.2	(0.1)	3.4	(0.0)	3.9	(0.0)	28.7	(0.2)
Aragon*	3.1	(0.1)	3.6	(0.0)	3.5	(0.0)	26.9	(0.2
Asturias*	3.2	(0.1)	3.7	(0.0)	3.1	(0.0)	27.5	(0.3
Balearic Islands*	3.2	(0.1)	2.9	(0.0)	3.4	(0.0)	29.5	(0.3
Basque Country*	3.3	(0.1)	3.2	(0.0)	3.6	(0.0)	28.7	(0.2
. ,	1							
Canary Islands	3.0	(0.1)	3.8	(0.0)	3.9	(0.0)	27.1	(0.2
Cantabria•	3.2	(0.1)	3.7	(0.0)	3.5	(0.0)	26.7	(0.2)
Castile and Leon*	3.3	(0.1)	3.6	(0.0)	3.6	(0.0)	26.6	(0.2)
Castile-La Mancha	3.2	(0.0)	3.7	(0.0)	3.6	(0.0)	27.2	(0.2)
Catalonia*	3.1	(0.1)	3.0	(0.0)	3.7	(0.0)	29.9	(0.3)
Comunidad Valenciana*	3.0	(0.1)	3.0	(0.0)	3.5	(0.0)	29.0	(0.2)
Extremadura*	3.1	(0.1)	3.7	(0.0)	3.7	(0.0)	26.8	(0.2)
Galicia•	3.0	(0.1)	2.7	(0.0)	3.0	(0.0)	27.2	(0.2
La Rioja•	3.2	(0.1)	3.5	(0.0)	3.5	(0.0)	26.4	(0.1
Madrid*	3.7	(0.1)	3.8	(0.0)	3.3	(0.1)	27.8	(0.5
Murcia•	3.3	(0.1)	3.8	(0.0)	3.6	(0.0)	28.2	(0.2)
	l .							
Navarre*	3.0	(0.1)	3.6	(0.0)	3.5	(0.0)	27.4	(0.2
United Kingdom		10.5	1	(0.4)	2.0	(0.0)	0.5.0	
England	4.8	(0.1)	4.1	(0.1)	3.9	(0.0)	26.3	(0.1)
Northern Ireland	4.2	(0.1)	3.8	(0.1)	3.7	(0.0)	27.2	(0.2
Scotland	4.3	(0.1)	3.8	(0.0)	3.7	(0.0)	27.4	(0.1
Wales	4.9	(0.1)	4.0	(0.1)	3.8	(0.1)	26.6	(0.2
United States								
Massachusetts*	4.7	(0.1)	4.9	(0.2)	4.7	(0.1)	28.3	(0.3
North Carolina*	4.7	(0.1)	5.1	(0.2)	4.9	(0.1)	28.3	(0.4
Puerto Rico*	m	m	m	m	m	m	m	n
			·					
Colombia	1				1			
Bogotá	3.7	(0.2)	3.5	(0.1)	3.9	(0.1)	26.2	(0.4
Cali	2.9	(0.1)	3.1	(0.1)	3.2	(0.1)	24.8	(0.5
Manizales	3.6	(0.1)	3.6	(0.1)	4.0	(0.1)	27.6	(0.3
Medellín	3.3	(0.1)	3.2	(0.1)	3.5	(0.1)	25.8	(0.4
United Arab Emirates					·			
Abu Dhabi•	5.4	(0.1)	4.9	(0.1)	5.6	(0.1)	29.7	(0.3
Ajman	4.6	(0.1)	4.6	(0.1)	4.9	(0.1)	29.2	(0.3
Dubai*	5.4	(0.2)	4.3	(0.0)	4.4	(0.1)	28.0	(0.3
Fujairah	4.9	(0.1)	5.0	(0.1)	4.9	(0.1)	29.1	(0.4
Ras Al Khaimah	4.9	(0.2)	4.9	(0.1)	4.8	(0.1)	28.7	(0.5)
Sharjah	5.3	(0.3)	4.5	(0.1)	4.7	(0.2)	28.2	(0.4
Umm Al Quwain	4.6	(0.1)	4.6	(0.1)	4.9	(0.1)	29.2	(0.4)

[•] PISA adjudicated region.

1. Total learning time includes all school subjects.

Notes: Results for the province of Quebec in this table should be treated with caution due to a possible non-response bias.

For Massachusetts and North Carolina, the desired target population covers 15-year-old students in grade 7 or above in public schools only (see Annex A2). Puerto Rico is an unincorporated territory of the United States. As such, PISA results for the United States do not include Puerto Rico.

See Table II.6.32 for national data.

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Table B2.II.46 After-school study time

Results hased on students' self-reports

Res	ults based on students' self-i	reports									
		Average time per week spent studying afte			fter school ¹ (e.g. homework, additional instruction, private study), in hours						
			ence	-	ematics	Language of			language		ubjects
	Belgium	Hours	S.E.	Hours	S.E.	Hours	S.E.	Hours	S.E.	Hours	S.E.
OECD	Flemish community*	2.7	(0.1)	3.5	(0.1)	1.9	(0.0)	2.8	(0.0)	3.4	(0.1)
0	French community	2.9	(0.1)	3.7	(0.1)	2.9	(0.1)	3.4	(0.1)	3.7	(0.1)
	German-speaking community	2.4	(0.1)	3.5	(0.1)	2.6	(0.1)	3.6	(0.2)	2.8	(0.2)
	Canada			'		1					
	Alberta	4.9	(0.2)	4.2	(0.1)	3.7	(0.1)	1.5	(0.1)	4.0	(0.2)
	British Columbia	4.5	(0.1)	4.5	(0.1)	3.8	(0.1)	2.2	(0.1)	4.3	(0.2)
	Manitoba	4.2	(0.2)	4.4	(0.2)	3.4	(0.2)	1.5	(0.1)	4.3	(0.2)
	New Brunswick	3.9	(0.1)	4.0	(0.1)	3.5	(0.1)	1.7	(0.1)	3.4	(0.1)
	Newfoundland and Labrador	4.4	(0.1)	4.2	(0.1)	3.1	(0.1)	1.7	(0.1)	3.9	(0.2)
	Nova Scotia	3.7	(0.1)	4.5	(0.2)	3.5	(0.1)	1.3	(0.1)	3.8	(0.1)
	Ontario	4.8	(0.1)	4.8	(0.1)	4.1	(0.1)	1.9	(0.1)	4.8	(0.1)
	Prince Edward Island	4.3	(0.3)	4.0	(0.3)	3.7 2.4	(0.2)	1.8	(0.2)	4.0	(0.3)
	Quebec Saskatchewan	3.5 3.6	(0.1)	3.9 3.9	(0.1)	3.8	(0.1)	1.5 1.4	(0.1)	3.0 4.4	(0.1)
	Italy	3.0	(0.1)	3.5	(0.1)	3.0	(0.1)	1.7	(0.1)	7.7	(0.2)
	Bolzano	2.7	(0.1)	2.4	(0.1)	2.1	(0.1)	3.6	(0.1)	3.9	(0.1)
	Campania	4.8	(0.2)	5.1	(0.2)	5.3	(0.1)	4.4	(0.1)	5.0	(0.2)
	Lombardia	3.7	(0.1)	3.5	(0.1)	3.5	(0.1)	3.4	(0.1)	4.3	(0.1)
	Trento	3.7	(0.1)	3.2	(0.1)	3.5	(0.1)	3.9	(0.1)	4.2	(0.1)
	Portugal										
	Região Autónoma dos Açores	2.8	(0.1)	3.9	(0.1)	3.6	(0.1)	2.9	(0.1)	3.2	(0.1)
	Spain										
	Andalusia •	3.3	(0.1)	4.2	(0.1)	3.5	(0.1)	3.4	(0.1)	4.1	(0.1)
	Aragon•	3.5	(0.1)	3.9	(0.1)	3.8	(0.1)	3.1	(0.1)	4.4	(0.1)
	Asturias*	3.7	(0.1)	4.2	(0.1)	3.7	(0.1)	3.4	(0.1)	4.5	(0.2)
	Balearic Islands Balearic Islands	3.3	(0.1)	3.7	(0.1)	3.0	(0.1)	3.3	(0.1)	3.9	(0.1)
	Basque Country	3.1	(0.1)	3.6	(0.1)	2.8	(0.1)	3.2	(0.1)	4.1	(0.1)
	Canary Islands* Cantabria*	3.3 3.5	(0.1)	3.9 4.3	(0.1)	3.5 3.7	(0.1)	3.5 3.1	(0.1)	4.2 4.2	(0.1) (0.1)
	Castile and Leon•	3.8	(0.1)	4.3	(0.1)	4.0	(0.1)	3.3	(0.1)	4.2	(0.1)
	Castile-La Mancha Castile-La Mancha	3.8	(0.1)	4.2	(0.1)	3.9	(0.1)	3.4	(0.1)	4.4	(0.1)
	Catalonia*	2.9	(0.1)	3.6	(0.1)	2.7	(0.1)	3.1	(0.1)	3.7	(0.1)
	Comunidad Valenciana*	3.2	(0.1)	3.8	(0.1)	3.2	(0.1)	3.2	(0.1)	4.6	(0.2)
	Extremadura*	3.7	(0.1)	4.2	(0.1)	4.0	(0.1)	3.4	(0.1)	4.5	(0.1)
	Galicia•	3.8	(0.1)	4.2	(0.1)	3.1	(0.1)	3.1	(0.1)	4.5	(0.1)
	La Rioja•	3.2	(0.1)	3.8	(0.1)	3.4	(0.1)	3.0	(0.1)	4.4	(0.1)
	Madrid*	3.8	(0.1)	3.8	(0.1)	3.6	(0.1)	3.0	(0.1)	4.2	(0.1)
	Murcia•	3.6	(0.1)	4.2	(0.1)	4.1	(0.1)	3.4	(0.1)	4.6	(0.1)
	Navarre*	2.9	(0.1)	3.8	(0.1)	3.2	(0.1)	3.1	(0.1)	4.3	(0.1)
	United Kingdom										
	England	3.7	(0.1)	3.5	(0.0)	3.0	(0.1)	1.5	(0.0)	4.9	(0.1)
	Northern Ireland	3.8	(0.1)	4.0	(0.1)	3.5	(0.1)	1.8	(0.1)	5.2	(0.1)
	Scotland Wales	3.9	(0.1)	4.0	(0.1)	3.9	(0.1)	1.5	(0.1)	6.0	(0.1)
	United States	3.9	(0.1)	4.0	(0.1)	3.6	(0.1)	1.3	(0.1)	5.1	(0.1)
	Massachusetts*	4.8	(0.1)	4.8	(0.1)	4.7	(0.2)	3.0	(0.2)	4.1	(0.2)
	North Carolina•	4.7	(0.1)	4.1	(0.1)	3.8	(0.1)	2.1	(0.1)	4.6	(0.2)
	Puerto Rico*	m	m	m	m	m	m	m	m	m	m
_				'		<u>'</u>					
Partners	Colombia	1									
artr	Bogotá	3.2	(0.1)	3.7	(0.1)	3.4	(0.1)	3.6	(0.1)	4.4	(0.1)
P	Cali	3.0	(0.1)	3.7	(0.1)	3.6	(0.1)	3.7	(0.2)	4.2	(0.2)
	Manizales Medellín	3.2 3.3	(0.1)	4.0	(0.1)	3.4	(0.1)	3.5	(0.1)	4.5	(0.2)
	United Arab Emirates	3.3	(0.1)	3.7	(0.1)	3.5	(0.1)	3.5	(0.2)	4.3	(0.1)
	Abu Dhabi*	7.5	(0.2)	7.5	(0.1)	5.6	(0.1)	5.2	(0.1)	5.8	(0.1)
	Ajman	7.0	(0.2)	7.5	(0.1)	6.3	(0.1)	5.9	(0.1)	5.6	(0.1)
	Dubai•	6.9	(0.1)	6.5	(0.1)	4.8	(0.1)	3.0	(0.2)	5.4	(0.1)
	Fujairah	7.4	(0.2)	7.2	(0.2)	6.3	(0.2)	6.0	(0.2)	6.1	(0.2)
	Ras Al Khaimah	6.9	(0.3)	6.5	(0.2)	5.6	(0.2)	5.7	(0.3)	5.9	(0.2)
	Sharjah	7.1	(0.2)	6.9	(0.3)	5.4	(0.2)	4.3	(0.3)	5.1	(0.2)
	Umm Al Quwain	6.4	(0.3)	6.8	(0.3)	5.7	(0.3)	7.3	(0.4)	5.3	(0.3)

[•] PISA adjudicated region.

1. Hours spent learning in addition to the required school schedule, including homework, additional instruction or private study.

Notes: Results for the province of Quebec in this table should be treated with caution due to a possible non-response bias.

For Massachusetts and North Carolina, the desired target population covers 15-year-old students in grade 7 or above in public schools only (see Annex A2).

Puerto Rico is an unincorporated territory of the United States. As such, PISA results for the United States do not include Puerto Rico.

See Table II.6.37 for national data.

StatLink **asp** http://dx.doi.org/10.1787/888933436536



ANNEX B3

LIST OF TABLES AVAILABLE ON LINE

The following tables are available in electronic form only, they may be found at: www.oecd.org/pisa.

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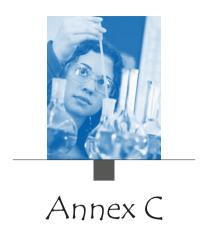
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THE DEVELOPMENT AND IMPLEMENTATION OF PISA: A COLLABORATIVE EFFORT

Notes regarding Cyprus

Note by Turkey: The information in this document with reference to "Cyprus" relates to the southern part of the Island. There is no single authority representing both Turkish and Greek Cypriot people on the Island. Turkey recognises the Turkish Republic of Northern Cyprus (TRNC). Until a lasting and equitable solution is found within the context of the United Nations, Turkey shall preserve its position concerning the "Cyprus issue".

Note by all the European Union Member States of the OECD and the European Union: The Republic of Cyprus is recognised by all members of the United Nations with the exception of Turkey. The information in this document relates to the area under the effective control of the Government of the Republic of Cyprus.



PISA is a collaborative effort, bringing together experts from the participating countries, steered jointly by their governments on the basis of shared, policy-driven interests.

A PISA Governing Board, representing each country, determines the policy priorities for PISA, in the context of OECD objectives, and oversees adherence to these priorities during the implementation of the programme. This includes setting priorities for the development of indicators, for establishing the assessment instruments and for reporting the results.

Experts from participating countries also serve on working groups that are charged with linking policy objectives with the best internationally available technical expertise. By participating in these expert groups, countries ensure that: the instruments are internationally valid and take into account the cultural and educational contexts in OECD countries and in partner countries and economies; the assessment materials have strong measurement properties; and the instruments emphasise authenticity and educational validity.

Participating countries and economies implement PISA at the national level through National Project Managers, subject to the agreed administration procedures. National Project Managers play a vital role in ensuring that the implementation of the survey is of high quality, and verify and evaluate the survey results, analyses, reports and publications.

External contractors are responsible for designing and implementing the surveys, within the framework established by the PISA Governing Board. Pearson developed the science and collaborative problem-solving frameworks, and adapted the frameworks for reading and mathematics, while the Deutsches Institut für Pädagogische Forschung (DIPF) designed and developed the questionnaires. Management and oversight of this survey, the development of the instruments, scaling and analyses are the responsibility of the Educational Testing Service (ETS) as is development of the electronic platform. Other partners or subcontractors involved with ETS include: cApStAn Linguistic Quality Control and the Department of Experimental and Theoretical Pedagogy at the University of Liège (SPe) in Belgium; the Center for Educational Technology (CET) in Israel; the Public Research Centre (CRP) Henri Tudor and the Educational Measurement and Research Center (EMACS) of the University of Luxembourg in Luxembourg; and GESIS – Leibniz-Institute for the Social Sciences in Germany. Westat assumed responsibility for survey operations and sampling with the subcontractor, the Australian Council for Educational Research (ACER).

The OECD Secretariat has overall managerial responsibility for the programme, monitors its implementation daily, acts as the secretariat for the PISA Governing Board, builds consensus among countries, and serves as the interlocutor between the PISA Governing Board and the international Consortium charged with implementing the activities. The OECD Secretariat also produces the indicators and analyses and prepares the international reports and publications in co-operation with the PISA Consortium and in close consultation with OECD countries and partner countries and economies at both the policy level (PISA Governing Board) and the level of implementation (National Project Managers).

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POLICIES AND PRACTICES FOR SUCCESSFUL SCHOOLS

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Chapter 2: How schools and teaching practices shape students' performance in and dispositions towards science

Chapter 3: The school learning environment

Chapter 4: School governance, assessment and accountability

Chapter 5: Selecting and grouping students

Chapter 6: Resources invested in education

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