

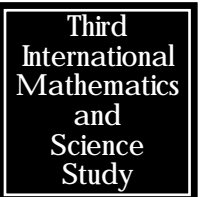
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Documentation of  
National Adaptations of  
International Background  
Questionnaire Items  
Populations 1 and 2

User Guide for the TIMSS  
International Database

Primary and Middle School Years – 1995 Assessment



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# Supplement 3

## Documentation of National Adaptations of International Background Questionnaire Items Populations 1 and 2

### Overview

This supplement contains documentation of national adaptations of the international versions of the student, teacher, and school background questionnaire items. See Chapter 2 of the accompanying User Guide for a description of the TIMSS background questionnaires. The international versions of the questionnaires are provided in Supplements 1 and 2 of the User Guide.

This documentation provides users with a guide to evaluate the availability of internationally-comparable data for use in secondary analyses involving the TIMSS contextual variables. The documentation of national adaptations is presented in seven separate sections corresponding to each of the Population 1 or Population 2 questionnaire types:

- Section 1: Population 1 - Student Background Questionnaire
- Section 2: Population 1 - Teacher Background Questionnaire
- Section 3: Population 1 - School Background Questionnaire
- Section 4: Population 2 - Student Background Questionnaire
- Section 5: Population 2 - Mathematics Teacher Background Questionnaire
- Section 6: Population 2 - Science Teacher Background Questionnaire
- Section 7: Population 2 - School Background Questionnaire

Each section contains specific national documentation about individual background items in order of questionnaire item location. Documentation is included for all variables for which there are some countries: (i) included in the database but the version of the question administered was somewhat different from the international version or (ii) not included in the database. For each item, the following information is provided:

- Questionnaire Item Location Reference (as presented in Table 7.3 of the User Guide)
- Question (an abbreviated version of the main question with any relevant subitems and general notes)
- Table of National Adaptation Documentation (listed by country and by subitem)

The version of the question shown in the documentation in this supplement is a shortened version included to communicate the basic information about what was asked in each item and to aid in the interpretation of the specific documentation comments. For the exact form of each question, see Supplements 1 and 2.

The Table of National Adaptation Documentation for each item lists any countries for which internationally-comparable data for the indicated item or subitems are either unavailable or for which data are included with notes on differences between the national and international versions of the questions. It should be noted that this documentation does not include any cases where simple recodes of the national data were made to produce internationally-comparable data in the international variables (e.g. option reversals). In the Tables of National Adaptation Documentation, countries are given one of two different data codes with the following definitions:

**Code D: National data for country are included in the international variable.**

This code is used for items where the international version of the question allows for some nationally-defined options or where the modified national version for specific countries are considered appropriate for comparison of univariate statistics. For these items, some brief documentation is included to describe the national versions of the questions, to assist the user in data interpretation.

**Code X: National data for country are NOT included in the international variable.**

This code is used to refer to all items that were (i) not administered, (ii) not applicable, or (iii) deleted for a variety of reasons (e.g. not internationally comparable, removed per NRC request, or removed due to other data problems). A general comment is included for the majority of these cases: ‘Question Not Administered or Data Not Internationally Comparable’. Other comments may be included for some variables where some description is required to explain the absence of data.

The documentation provided is as complete as possible given the information provided by the NRCs and the resources available for reviewing the individual national adaptations. The review of national adaptations was instituted for the majority of the background questionnaire items and, in particular, for any of the items that were used for reporting the contextual data in the international reports. There are some items, however, that received less scrutiny than those contained in the international reports, including a few for which documentation about national adaptations is not available, as indicated in the following sections.

## General Documentation Issues for Student Questionnaire Items

### Specialized Versus Non-Specialized Versions of the Population 2 Variables

For Population 2, there were two versions of the student questionnaire administered, as discussed in Chapter 2: (i) a non-specialized version - SQ2 and (ii) a specialized version - SQ2(s). Countries administered the version of the questionnaire that was most appropriate based on the way science was taught to their Population 2 students: SQ2 was used in countries with general/integrated science classes; SQ2(s) was used in countries where science is taught as separate subjects (biology, earth science, chemistry, physics).

There are three basic types of Population 2 background variables indicated by the following questionnaire item locations:

- SQ2-\*\* = General student background questions or questions pertaining to mathematics contained in both the specialized and non-specialized versions.
- SQ2G-\*\* = Questions pertaining to general/integrated science contained in only the non-specialized version.
- SQ2S-\*\* = Questions pertaining to separate science subject areas contained in only the specialized version.

Students in each country have valid data only for those variables associated with the version of the questionnaire administered in their country, as indicated in Table 2.8 of the User Guide. The background variables related to general/integrated science (BSBS\*\*\*\*) contain data only for students in countries that administered the non-specialized form of the questionnaire, while the variables related to the separate science subject areas of biology, chemistry, earth science, and physics (BSBB\*\*\*\*, BSBC\*\*\*\*, BSBE\*\*\*\*, and BSBP\*\*\*\*) contain data only for students in countries that administered the SQ2(s) form of the questionnaire. For the variables associated with the other version of the questionnaire, the student data in each country will be coded as ‘not administered’.

The classification of countries by questionnaire type shown in Table 2.8 of the User Guide is based on whether the series of questions related to activities in science classes is asked about integrated science classes or separate science subject areas. In a few cases, countries used a modified version of the student questionnaire omitting some of the science subject areas, combining subject areas, or combining questions from both the specialized and non-specialized versions. As a result, these countries were handled somewhat differently in the international database and report tables or figures. All of the special cases below, indicating exceptions to the general questionnaire type, as well as some other countries that asked questions for only some of the science subject areas are presented in the Tables of National Adaptation Documentation for the affected student background variables.

**Austria:** Although the non-specialized version was used for the majority of questions about science classes, Austria used the specialized version of the questions related to liking the sciences (SQ2S-21b,c,d) and usually doing well in the sciences (SQ2S-17b,c,d). They were reported in separate science subject areas (biological science, earth science, and physical science) in the tables and figures related to these questions.

**Belgium (French):** Although the specialized version was used for the majority of questions about science classes, Belgium (French) used the non-specialized version of the questions related to liking science (SQ2G-21b) and usually doing well in science (SQ2G-17b). They were reported in integrated science in the tables and figures related to these questions. Also, both the non-specialized and specialized versions of the other questions related to attitudes about the sciences and classroom activities were administered. Students were told to respond to questions about either integrated science (SQ2G-28,29,31,32) or the questions about biology (SQ2S-29-32) and physics (SQ2S-41-44), depending on the structure of their science instruction. Data are reported in both the integrated science column and the separate subject area columns (biology and physics) in the tables and figures related to these questions.

**France:** France used the specialized version asking questions about two combined science classes (biology/geology and physics/chemistry). The combined class data are included in the international variables related to biology (SQ2S-17b; 21b; 29-32) and physics (SQ2S-17d; 21d; 41-44). Their data are reported in the separate subject area columns (biology and physics) in the tables and figures related to these questions.

**Greece:** Although the specialized version was used for the majority of questions about science classes, Greece used the non-specialized version of the questions related to liking science and usually doing well in science. Based on information provided by the NRC about the specific science subjects taken in the upper and lower grades, these data were recoded to specialist variables: the upper-grade student data were included in the physical science variables (SQ2S-17d; 21d) and the lower-grade student data were included in the biological science variables (SQ2S-17b; 21b). The upper-grade students were reported in physical science in the tables and figures related to these questions.

**Latvia:** Latvia used the specialized version of questions related to liking the sciences and usually doing well in the sciences for three modified subjects: biology, chemistry and physics. Data for physics and chemistry were combined into physical science (SQ2S-21d; 17d). Data were reported in biology and physics in the tables and figures related to these questions.

**Netherlands:** The Netherlands used the specialized version of the questions about five science subjects: biology, earth science, physics, chemistry, and physics/chemistry. In the variables about liking the sciences and usually doing well in the science, the data for physics, chemistry, and physics/chemistry were all combined into the physical science questions (SQ2S-21d; 17d). In the variables pertaining science attitudes and classroom activities, data for students in physics and physics/chemistry were combined into physics (SQ2S-41-44), and the small amount of data in chemistry were deleted (SQ2S-33-36). Data were reported in biology, earth science and physics in the tables and figures related to these questions.

**Portugal:** Portugal used the specialized version asking questions about combined science classes (natural science and physical science). The combined class data are included in the international variables related to biology (SQ2S-17b; 21b; 29-32) and physics (SQ2S-17d; 21d; 41-44). Their data are reported in the separate subject area columns (biology and physics) in the tables and figures related to these questions.

**Slovenia:** Slovenia used the specialized version of questions related to liking the sciences and usually doing well in the sciences for three modified subjects: biology, chemistry and physics. Data for physics and chemistry were combined into physical science (SQ2S-21d; 17d). Data were reported in biology and physics in the tables and figures related to these questions.

**Sweden:** In Sweden, there is a system split between the lower and upper grades (lower grade in upper-primary and the upper grade in lower secondary). They used the non-specialized version for their lower-grade students and the specialized version for their upper-grade students due to the different structure of their science classes at these two educational levels.

### **Other General Issues in the Student Background Variables**

**Philippines and South Africa:** Student background data are not included in the Population 2 international reports, but data are retained in the international database. No systematic review of national adaptations was made for the student background variables.

**Bulgaria:** No Population 2 student background data are included in the international data files.

## General Documentation Issues for Teacher Questionnaire Items

### Opportunity-to-Learn and Pedagogy Questions in the Population 2 Teacher Questionnaires

The questions about Opportunity to Learn and Pedagogy in sections C and D of the Population 2 mathematics and science teacher questionnaires were optional, and some countries chose not to administer these items. Table S3.1 lists all of the countries that administered at least some of these items:

**Table S3.1**

**Countries Administering Opportunity-to-Learn and Pedagogy Questions in the Population 2 Teacher Questionnaires**

Mathematics	Science
Australia	Australia
Belgium (Fl)	Belgium (Fl)
Belgium (Fr)	Belgium (Fr)
Colombia	Colombia
Cyprus	Cyprus
Czech Republic	Czech Republic
France	Denmark
Greece	France
Hong Kong	Greece
Hungary	Hong Kong
Iceland	Hungary
Iran, Islamic Rep.	Iceland
Ireland	Iran, Islamic Rep.
Japan	Ireland
Korea	Japan
Kuwait	Korea
Latvia	Kuwait
Lithuania	Latvia
Netherlands	Lithuania
New Zealand	Netherlands
Portugal	New Zealand
Romania	Portugal
Singapore	Romania
Slovak Republic	Russian Federation
Slovenia	Singapore
Spain	Slovak Republic
Sweden	Slovenia
Thailand	Spain
United States	Sweden
	Thailand
	United States

Although these countries do have data for some or all of these items, no national adaptation documentation is available. In order to work with these variables, secondary users must check the individual variables in the teacher background files for the countries of interest.

### Mathematics and Science Questions in the Population 1 Teacher Questionnaires

At Population 1, a single international version of the teacher questionnaire was developed including all questions pertaining to general background information, mathematics-related questions, and science-related questions. This was done because, in general, students in Population 1 are taught both mathematics and science by a single classroom teacher. In this situation, all teacher background variables are expected to contain data for all of the Population 1 teachers. In some countries, however, a portion or even all of the students were taught mathematics and science by different teachers. Table S3.2 indicates the countries where at least some of their Population 1 students are taught mathematics and science by separate teachers.

**Table S3.2**

**Population 1 Countries With Students Taught by Single Classroom or Separate Mathematics and Science Teachers**

Countries Where All Population 1 Students Are Taught Both Mathematics and Science By A Single Classroom Teacher	Countries Where At Least Some Population 1 Students Are Taught Mathematics and Science By Separate Teachers
Austria Greece Iran, Islamic Rep. Ireland Japan Korea Netherlands Portugal Scotland Slovenia	Australia Canada Cyprus Czech Republic England Hong Kong Hungary Iceland Israel Kuwait Latvia (LSS) New Zealand Norway Singapore Thailand United States



In countries with this type of educational system at Population 1, a high percent of missing or not applicable data may be included for the mathematics-related and science-related variables for teachers of the other subjects. To correct for this problem, as discussed in Chapter 7 of the User Guide, the IDSUBJECT variable was used to identify the appropriate teachers to include in background data tables in the international mathematics and science reports for Population 1. It is recommended that IDSUBJECT be used as a filter in analyzing the Population 1 teacher data in order to avoid high percentages of missing or not applicable responses for some countries (IDSUBJECT values: 1 = mathematics-only; 2 = science-only; 3 = mathematics/science).

In addition to the general issue of missing data affecting all countries with separate mathematics and science teachers, there are some countries with missing data for either teacher due to the questionnaire administration procedures used in their country. These situations are listed below and also are indicated in the Tables of National Adaptation Documentation:

**Czech Republic:** Science-only teachers were not given questionnaires and their data are missing from the teacher background file. Where appropriate, some general classroom-related data were copied from the mathematics teachers for matching classes.

**Hong Kong:** Only one questionnaire was completed per class. The first part was completed by the mathematics teacher, and the second part by the science teacher. Therefore, general background data are not available for the science teachers. Where appropriate, some general classroom-related data were copied from the mathematics teachers for matching classes.

**Israel:** Many mathematics teachers did not take the questionnaire due to administration problems. All data for these teachers are missing from the teacher background variables.

**Singapore:** Three separate versions of the Population 1 teacher questionnaire were administered: one for mathematics teachers, one for science teachers, and one for mathematics/science teachers. Some questions were omitted from the science teacher version. Where appropriate, some general classroom-related data were copied from mathematics teachers for matching classes.

### **Teacher Background Variables Without National Adaptation Documentation**

For the following types of Population 1 and Population 2 teacher background items, no documentation was compiled regarding national adaptations:

- Questions about Textbooks Used (TQ1-17; TQM2B4; TQS2B4)
- Questions About Mathematics or Science Topics Taught (TQ1-25A-U; TQ1-37A-X; TQM2B12A-V; TQS2B12A-X)
- Opportunity to Learn Questions (Optional Section C of Population 2 Teacher Questionnaire - TQM2C\*\*, TQS2C\*\*)
- Pedagogy Questions (Optional Section D of Population 2 Teacher Questionnaire - TQM2D\*\*, TQS2D\*\*)

### **Other General Issues in the Teacher Background Variables**

**Bulgaria, Philippines, and South Africa:** No Population 2 teacher background data are included in the international data files.

## General Documentation Issues for School Questionnaire Items

### School Variables Pertaining to Lower-Grade and Upper-Grade Students

In general, one lower-grade and one upper-grade classroom was sampled in each school per the TIMSS sample design. However, in some countries the lower- and upper-grade classes are selected from different schools due to the structure of the educational system. In particular, in Population 2, New Zealand, Norway, Philippines, South Africa, Sweden, and Switzerland have system splits between their lower and upper grades for some or all students (lower grade in upper primary and upper grade in lower secondary). In cases where only one of the two relevant grades are included in a school, questions pertaining to the other grade are not applicable for these schools. Although most of the data issues related to this situation should have been taken care of during data entry, attention is drawn to the following specific school background questionnaire items pertaining to lower- or upper-grade students that could be affected by any remaining unusual patterns in responses: SCQ1-16E-P; SCQ2-17E-P; SCQ1-17A-M; SCQ2-18A-R; SCQ1-18A-E; SCQ2-19A-E; SCQ1-19A,B; SCQ2-20A,B; SCQ1-24A-F; SCQ2-25A-F; SCQ1-25A-H; SCQ2-26A-H; SCQ1-26A-F; SCQ2-27A-F; SCQ1-27A-H; SCQ2-28A-H. To ensure that no inappropriate data are included in the analyses of any of these school background variables for combined samples of lower- and upper-grade students, the IDGRADER identification variable for each school, described in Chapter 7 of the User Guide, may be used as a filter to include only those schools containing the appropriate grades for analysis (IDGRADER values: 1 = lower-grade only; 2 = upper-grade only; 3 = both grades).

### Other General Issues in the School Background Variables

**Bulgaria, Philippines, and South Africa:** No Population 2 school background data are included in the international data files.

**Hungary:** Only a single version of the school background questionnaire was administered to both Population 1 and Population 2 schools, since grades 1-8 are contained in the same schools in Hungary. This led to some interpretation problems with the questions pertaining to lower- and upper-grade students, since explicit lower- and upper-grade levels were not specified. Some recodes were made to include as much of the data as possible; however, several variables were deleted as not internationally comparable. These data modifications are indicated in the Tables of National Adaptation Documentation.

**Kuwait:** No translation was made of the school background questionnaire. The international English version was administered to the schools.

# Section 1

Population 1  
Student Background Questionnaire

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**SQ1-1****QUESTION:**

On what date were you born?

1/1: Day;  
1/2: Month;  
1/3: Year.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ1-1/1	Australia	X	Question not administered or data not internationally comparable.
SQ1-1/1	Canada	X	Question not administered or data not internationally comparable.
SQ1-1/1	Iran	X	Question not administered or data not internationally comparable.
SQ1-1/1	Ireland	X	Question not administered or data not internationally comparable.
SQ1-1/1	Norway	X	Question not administered or data not internationally comparable.
SQ1-1/1-3	Singapore	D	Data obtained from ministry.

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**SQ1-2****QUESTION:**

Are you a girl or a boy?

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ1-2	Singapore	D	Data obtained from ministry.

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**SQ1-3****QUESTION:**

A: Were you born in <country>?

B: If you were not born in <country>, how old were you when you came to <country>?

(Format: Open-ended; numerical integer, valid values less than or equal to age of student (ASDAGE).)

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ1-3B	Australia	D	Used categorical format: '< 1', '1','2','3',..., '8','9 or more'.
SQ1-3B	Canada	D	Used categorical format: '< 1', '1','2','3',..., '8','9 or more'.
SQ1-3A-B	Japan	X	Question not administered or data not internationally comparable.
SQ1-3B	Netherlands	D	Used categorical format: '< 1','1','2',..., '12'.

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**SQ1-4****QUESTION:**

How often do you speak <language of test> at home?

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ1-4	Hong Kong	X	Question not administered or data not internationally comparable.
SQ1-4	Japan	X	Question not administered or data not internationally comparable.
SQ1-4	Scotland	X	Question not administered or data not internationally comparable.

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**SQ1-6****QUESTION:**

On a normal school day, how much time do you spend before or after school doing each of these things?

A: watching television and videos;

B: playing computer games;

C: playing or talking with friends;

:

F: reading a book for enjoyment;

G: studying math or doing math homework after school;

H: studying science or doing science homework after school;

I: studying or doing homework in school subjects other than math<s> & science

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ1-6G-I	England	X	Question not administered or data not internationally comparable.
SQ1-6A-I	Iceland	D	Modified options: Option 4 = '3-5 hours'; Option 5 = 'more than 5 hours'.
SQ1-6A-I	Israel	D	Modified options: Option 4 = '3-5 hours'; Option 5 = 'more than 5 hours'.
SQ1-6A-I	Korea	D	Modified: Option 5 = 'more than 5 hours'.
SQ1-6A-I	Latvia	D	Modified options: Option 4 = '3-5 hours'; Option 5 = 'more than 5 hours'.
SQ1-6A-I	Singapore	D	Used open-ended response format (hours on normal school day); coded to international categories.

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**SQ1-7****QUESTION:**

Do each of these people live at home with you most or all the time?

A: mother;

B: father;

C: one or more brothers;

D: one or more sisters;

E: stepmother;

F: stepfather;

G: one or more grandparents;

H: another relative or relatives such as uncles, aunts, cousins, etc.;

I: another person or persons (not relatives).

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ1-7A-I	Japan	X	Question not administered or data not internationally comparable.
SQ1-7E-F	Singapore	X	Question not administered or data not internationally comparable.

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**SQ1-8****QUESTION:**

Altogether, how many people live in your home?

(Format: Open-ended; numerical integer.)

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ1-8	Australia	D	Used categorical format: '2','3',..., '9', '10 or more'.
SQ1-8	Canada	D	Used categorical format: '2','3',..., '9', '10 or more'.
SQ1-8	Japan	X	Question not administered or data not internationally comparable.
SQ1-8	Netherlands	D	Used categorical format: '2', '3', ..., '8 or more'.

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**SQ1-9****QUESTION:**

A: Was your mother born in &lt;country&gt;?

B: Was your father born in &lt;country&gt;?

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ1-9A-B	Japan	X	Question not administered or data not internationally comparable.

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**SQ1-10****QUESTION:**

About how many books are there in your home?

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ1-10	Japan	X	Question not administered or data not internationally comparable.

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**SQ1-11****QUESTION:**

Do you have any of these items at your home?

A: a calculator

B: a computer

C: a study desk/table for your use

D: a dictionary

E: <country specific>

:

P: <country specific>

(Parts E - P include nationally-defined possessions documented for each country.)

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ1-11E	Australia	D	Bookshelves and books
SQ1-11F	Australia	D	Own wardrobe
SQ1-11G	Australia	D	Dishwashing machine
SQ1-11H	Australia	D	CD or video player in own room
SQ1-11I-P	Australia	X	Question not administered or data not internationally comparable.
SQ1-11E	Austria	D	Television
SQ1-11F	Austria	D	Video recorder
SQ1-11G	Austria	D	Video camera
SQ1-11H	Austria	D	CD player
SQ1-11I	Austria	D	CDs of classical music
SQ1-11J	Austria	D	Computer or video game
SQ1-11K	Austria	D	More than 1 telephone line
SQ1-11L	Austria	D	Microscope
SQ1-11M	Austria	D	Telescope
SQ1-11N	Austria	D	FAX or modem
SQ1-11O	Austria	D	Lawn mower
SQ1-11P	Austria	D	Cable or satellite dish
SQ1-11E	Canada	D	Own bookshelves and books
SQ1-11F	Canada	D	CD or video player in own room
SQ1-11G	Canada	D	Own television
SQ1-11H	Canada	D	Own telephone
SQ1-11I	Canada	D	Computer with modem
SQ1-11J	Canada	D	Encyclopedia
SQ1-11K-P	Canada	X	Question not administered or data not internationally comparable.
SQ1-11E	Cyprus	D	Bicycle
SQ1-11F	Cyprus	D	Cassette
SQ1-11G	Cyprus	D	Video recorder
SQ1-11H	Cyprus	D	Dishwasher
SQ1-11I	Cyprus	D	Stereo
SQ1-11J	Cyprus	D	Two cars or more
SQ1-11K	Cyprus	D	Washing machine
SQ1-11L	Cyprus	D	Air conditioner
SQ1-11M	Cyprus	D	Central heating
SQ1-11N	Cyprus	D	4 or more bedrooms
SQ1-11O	Cyprus	D	Recreational boat
SQ1-11P	Cyprus	D	Satellite antenna
SQ1-11E	Czech Republic	D	Car
SQ1-11F	Czech Republic	D	2 cars or more
SQ1-11G	Czech Republic	D	Washing machine
SQ1-11H	Czech Republic	D	Dishwasher
SQ1-11I	Czech Republic	D	Microwave oven

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SQ1-11J	Czeck Republic	D	Stereo
SQ1-11K	Czeck Republic	D	Color television
SQ1-11L	Czeck Republic	D	Video recorder
SQ1-11M	Czeck Republic	D	CD player
SQ1-11N	Czeck Republic	D	Video camera
SQ1-11O	Czeck Republic	D	Family house
SQ1-11P	Czeck Republic	D	Weekend house
SQ1-11E	England	D	Encyclopedia
SQ1-11F	England	D	Car
SQ1-11G	England	D	Dryer
SQ1-11H	England	D	Dishwasher
SQ1-11I	England	D	Microwave oven
SQ1-11J	England	D	Video recorder
SQ1-11K-P	England	X	Question not administered or data not internationally comparable.
SQ1-11E	Greece	D	Bicycle
SQ1-11F	Greece	D	Cassette recorder
SQ1-11G	Greece	D	Video recorder
SQ1-11H	Greece	D	Dishwasher
SQ1-11I	Greece	D	Stereo
SQ1-11J	Greece	D	Car
SQ1-11K	Greece	D	Washing machine
SQ1-11L	Greece	D	Air conditioner
SQ1-11M	Greece	D	Recreational boat
SQ1-11N	Greece	D	Library
SQ1-11O	Greece	D	Central heating
SQ1-11P	Greece	D	4 or more bedrooms
SQ1-11E	Hong Kong	D	Electronic dictionary
SQ1-11F	Hong Kong	D	Refrigerator
SQ1-11G	Hong Kong	D	Television
SQ1-11H	Hong Kong	D	Washing machine
SQ1-11I	Hong Kong	D	Dryer
SQ1-11J	Hong Kong	D	Air conditioner
SQ1-11K	Hong Kong	D	CD player
SQ1-11L	Hong Kong	D	Karaoke
SQ1-11M	Hong Kong	D	Car
SQ1-11N	Hong Kong	D	Own room
SQ1-11O	Hong Kong	D	2 or more bathrooms
SQ1-11P	Hong Kong	D	Servant's room
SQ1-11E	Hungary	D	Car
SQ1-11F	Hungary	D	Telephone
SQ1-11G	Hungary	D	Video recorder
SQ1-11H	Hungary	D	Own room
SQ1-11I	Hungary	D	Own computer
SQ1-11J	Hungary	D	Own corner to learn in
SQ1-11K	Hungary	D	Own books
SQ1-11L	Hungary	D	Own television
SQ1-11M-P	Hungary	X	Question not administered or data not internationally comparable.
SQ1-11E	Iceland	D	Plant field guide
SQ1-11F	Iceland	D	Bird field guide
SQ1-11G	Iceland	D	Math computer program
SQ1-11H	Iceland	D	Science computer program
SQ1-11I	Iceland	D	Math game
SQ1-11J	Iceland	D	Measuring tape

SQ1-11K	Iceland	D	TV satellite dish
SQ1-11L	Iceland	D	Cable descrambler
SQ1-11M-P	Iceland	X	Question not administered or data not internationally comparable.
SQ1-11E-P	Iran	X	Question not administered or data not internationally comparable.
SQ1-11E	Ireland	D	Telephone
SQ1-11F	Ireland	D	Encyclopedia
SQ1-11G	Ireland	D	Stereo
SQ1-11H	Ireland	D	Video
SQ1-11I	Ireland	D	CD player
SQ1-11J	Ireland	D	Television
SQ1-11K	Ireland	D	Microwave oven
SQ1-11L	Ireland	D	Dishwasher
SQ1-11M	Ireland	D	Car
SQ1-11N	Ireland	D	Dryer
SQ1-11O	Ireland	D	Washing machine
SQ1-11P	Ireland	D	Second bathroom
SQ1-11E	Israel	D	Encyclopedia
SQ1-11F	Israel	D	Video recorder
SQ1-11G	Israel	D	Dryer
SQ1-11H	Israel	D	Dishwasher
SQ1-11I	Israel	D	2 televisions or more
SQ1-11J	Israel	D	Microwave oven
SQ1-11K	Israel	D	Cordless phone
SQ1-11L	Israel	D	CD player
SQ1-11M	Israel	D	Air conditioner
SQ1-11N	Israel	D	Vacuum cleaner
SQ1-11O	Israel	D	Camera
SQ1-11P	Israel	D	Video camera
SQ1-11A-P	Japan	X	Question not administered or data not internationally comparable.
SQ1-11E	Korea	D	Study room
SQ1-11F	Korea	D	Piano
SQ1-11G	Korea	D	Camera
SQ1-11H	Korea	D	Television
SQ1-11I	Korea	D	Radio
SQ1-11J	Korea	D	Audio system
SQ1-11K	Korea	D	Video recorder
SQ1-11L	Korea	D	Video camera
SQ1-11M-P	Korea	X	Question not administered or data not internationally comparable.
SQ1-11E-P	Kuwait	X	Question not administered or data not internationally comparable.
SQ1-11E	Latvia	D	Encyclopedia
SQ1-11F	Latvia	D	Atlas
SQ1-11G	Latvia	D	Daily newspaper
SQ1-11H	Latvia	D	Monthly journal
SQ1-11I	Latvia	D	Video recorder
SQ1-11J	Latvia	D	Audio recorder
SQ1-11K	Latvia	D	Record player
SQ1-11L	Latvia	D	Electronic gameboard
SQ1-11M	Latvia	D	Walker
SQ1-11N	Latvia	D	Bicycle
SQ1-11O	Latvia	D	Coffee maker
SQ1-11P	Latvia	D	Own room
SQ1-11E	Netherlands	D	Encyclopedia
SQ1-11F	Netherlands	D	Telescope

SQ1-11G	Netherlands	D	Atlas or globe
SQ1-11H	Netherlands	D	Microscope
SQ1-11I-P	Netherlands	X	Question not administered or data not internationally comparable.
SQ1-11E	New Zealand	D	Television
SQ1-11F	New Zealand	D	Musical instruments
SQ1-11G	New Zealand	D	CD player
SQ1-11H	New Zealand	D	Video camera
SQ1-11I	New Zealand	D	Video games
SQ1-11J	New Zealand	D	Microwave
SQ1-11K	New Zealand	D	Clothes dryer
SQ1-11L	New Zealand	D	Dishwasher
SQ1-11M	New Zealand	D	2 bathrooms
SQ1-11N	New Zealand	D	Second car/motor bike
SQ1-11O	New Zealand	D	Encyclopedia
SQ1-11P	New Zealand	D	Mobile or cellular phone
SQ1-11E	Norway	D	Encyclopedia
SQ1-11F	Norway	D	Atlas
SQ1-11G	Norway	D	Globe
SQ1-11H	Norway	D	Binoculars
SQ1-11I	Norway	D	Aquarium
SQ1-11J	Norway	D	Piano
SQ1-11K	Norway	D	Cabin or boat
SQ1-11L	Norway	D	Video recorder
SQ1-11M	Norway	D	Video camera
SQ1-11N	Norway	D	More than one TV
SQ1-11O	Norway	D	More than one bathroom
SQ1-11P	Norway	D	More than one car
SQ1-11E	Portugal	D	Encyclopedia
SQ1-11F	Portugal	D	Radio
SQ1-11G	Portugal	D	Tape recorder
SQ1-11H	Portugal	D	Television
SQ1-11I	Portugal	D	Video
SQ1-11J	Portugal	D	Computer games
SQ1-11K	Portugal	D	Checkers/chess
SQ1-11L	Portugal	D	Video cassettes
SQ1-11M	Portugal	D	Camera
SQ1-11N	Portugal	D	Movie camera
SQ1-11O-P	Portugal	X	Question not administered or data not internationally comparable.
SQ1-11E-P	Scotland	X	Question not administered or data not internationally comparable.
SQ1-11E	Singapore	D	Microwave
SQ1-11F	Singapore	D	Car
SQ1-11G	Singapore	D	Air conditioner
SQ1-11H	Singapore	D	Piano/organ or violin
SQ1-11I	Singapore	D	Domestic help
SQ1-11J-P	Singapore	X	Question not administered or data not internationally comparable.
SQ1-11E	Slovenia	D	Own room
SQ1-11F	Slovenia	D	Daily newspaper
SQ1-11G	Slovenia	D	Garden
SQ1-11H	Slovenia	D	Video recorder
SQ1-11I	Slovenia	D	Pets
SQ1-11J	Slovenia	D	Musical instrument
SQ1-11K	Slovenia	D	Atlas
SQ1-11L	Slovenia	D	Own bicycle

SQ1-11M	Slovenia	D	Cable or satellite TV
SQ1-11N	Slovenia	D	More than one car
SQ1-11O	Slovenia	D	Own skis
SQ1-11P	Slovenia	D	Dictionary of Slovenian language
SQ1-11E	Thailand	D	Motorcycle
SQ1-11F	Thailand	D	Car
SQ1-11G	Thailand	D	Television
SQ1-11H	Thailand	D	Satellite receiver
SQ1-11I	Thailand	D	Tape recorder
SQ1-11J	Thailand	D	Radio
SQ1-11K	Thailand	D	Telephone
SQ1-11L	Thailand	D	FAX machine
SQ1-11M	Thailand	D	Gas stove
SQ1-11N	Thailand	D	Microwave oven
SQ1-11O	Thailand	D	Air conditioner
SQ1-11P	Thailand	D	Refrigerator
SQ1-11E	United States	D	Atlas
SQ1-11F	United States	D	Encyclopedia
SQ1-11G	United States	D	Portable CD player
SQ1-11H	United States	D	Recreational vehicle
SQ1-11I	United States	D	Stereo with CD player
SQ1-11J	United States	D	Answering machine
SQ1-11K	United States	D	3 or more cars
SQ1-11L	United States	D	Video camera
SQ1-11M	United States	D	Video game system
SQ1-11N	United States	D	Video recorder
SQ1-11O	United States	D	Walkman
SQ1-11P	United States	D	Laptop or notebook computer

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**SQ1-12**      **QUESTION:**

Does your mother think it is important for you to...  
 A: do well in science at school?  
 B: do well in mathematics at school?  
 C: be good at sports?  
 D: have time to have fun?

---

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ1-12A-D	Japan	X	Question not administered or data not internationally comparable.

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**SQ1-15**      **QUESTION:**

How well do you usually do in math<s> and science at school?  
 A: I usually do well in math<s>.  
 B: I usually do well in science.

---

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ1-15A-B	Korea	X	Question not administered or data not internationally comparable.

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**SQ1-16****QUESTION:**

Did any of these things happen last month at school?  
A: Something of mine was stolen;  
B: I thought another student might hurt me;  
C: Some of my friends had things stolen;  
D: Some of my friends were hurt by other students.

---

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ1-16A-D	England	X	Question not administered or data not internationally comparable.
SQ1-16A-D	Japan	X	Question not administered or data not internationally comparable.
SQ1-16A-D	Scotland	X	Question not administered or data not internationally comparable.

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**SQ1-17****QUESTION:**

To do well in mathematics at school you need...  
A: lots of natural ability;  
B: good luck;  
C: lots of hard work studying at home;  
D: to memorize the textbook or notes.

---

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ1-17A-D	England	X	Question not administered or data not internationally comparable.
SQ1-17A-D	Scotland	X	Question not administered or data not internationally comparable.

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**SQ1-18****QUESTION:**

To do well in science at school you need...  
A: lots of natural ability;  
B: good luck;  
C: lots of hard work studying at home;  
D: to memorize the textbook or notes.

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ1-18A-D	England	X	Question not administered or data not internationally comparable.
SQ1-18A-D	Scotland	X	Question not administered or data not internationally comparable.

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**SQ1-20****QUESTION:**

How much do you like using computers...  
A: in mathematics?  
B: in science?

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ1-20A-B	Scotland	X	Question not administered or data not internationally comparable.

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**SQ1-21****QUESTION:**

What do you think?

- A: I enjoy learning mathematics.
- B: Mathematics is boring.
- C: Mathematics is an easy subject.
- D: I enjoy learning science.
- E: Science is boring.
- F: Science is an easy subject.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ1-21A-F	Scotland	X	Question not administered or data not internationally comparable.

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**SQ1-22****QUESTION:**

How often does this happen in your mathematics lessons?

- A: The teacher shows us how to do mathematics problems.
- B: We copy notes from the board.
- C: We have a quiz or test.
- D: We work from worksheets or textbooks on our own.
- E: We work on math projects.
- F: We use calculators.
- G: We use computers.
- H: We work together in pairs or small groups.
- I: We use things from every day life in solving math problems.
- J: The teacher gives homework in class.
- K: We can begin our homework in class.
- L: The teacher checks homework.
- M: We check each other's homework.
- N: We discuss our completed homework.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ1-22K-N	England	X	Question not administered or data not internationally comparable.
SQ1-22E	Latvia	X	Question not administered or data not internationally comparable.

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**SQ1-23****QUESTION:**

How often does this happen in your science lessons?

- A: The teacher shows us how to do science problems.
- B: We copy notes from the board.
- C: We have a quiz or test.
- D: We work on science projects.
- E: We work from worksheets or textbooks on our own.
- F: We use calculators.
- G: We use computers.
- H: We use things from every day life in solving science problems.
- I: We work together in pairs or small groups.
- J: The teacher gives us homework.
- K: We can begin our homework in class.
- L: The teacher checks homework.
- M: We check each other's homework.
- N: We discuss our completed homework.
- O: The teacher gives a demonstration of an experiment.
- P: We ourselves do an experiment in class.

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ1-23K-N	England	X	Question not administered or data not internationally comparable.
SQ1-23A-P	Hong Kong	X	Question not administered or data not internationally comparable.
SQ1-23O-P	Latvia	X	Question not administered or data not internationally comparable.

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**SQ1-24****QUESTION:**

Outside of school, how often do you do these activities?

- A: read a book or magazine;
- B: visit a museum or art exhibition;
- C: attend a concert;
- D: go to the theatre;
- E: go to the movies.

---

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ1-24A-E	Australia	X	Question not administered or data not internationally comparable.
SQ1-24A-E	England	X	Question not administered or data not internationally comparable.
SQ1-24A-E	Hong Kong	X	Question not administered or data not internationally comparable.
SQ1-24A-E	Iran	X	Question not administered or data not internationally comparable.
SQ1-24A-E	Japan	X	Question not administered or data not internationally comparable.
SQ1-24A-E	Netherlands	X	Question not administered or data not internationally comparable.
SQ1-24A-E	Scotland	X	Question not administered or data not internationally comparable.

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**SQ1-25****QUESTION:**

Outside of school, how often do you watch the following kinds of programs on television or video?

- A: news or documentaries;
- B: opera, ballet, or classical music;
- C: nature, wildlife, or history;
- :
- H: comedy, adventure, or suspense.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ1-25A-H	Australia	X	Question not administered or data not internationally comparable.
SQ1-25A-H	England	X	Question not administered or data not internationally comparable.
SQ1-25A-H	Hong Kong	X	Question not administered or data not internationally comparable.
SQ1-25A-H	Iran	X	Question not administered or data not internationally comparable.
SQ1-25A-H	Japan	X	Question not administered or data not internationally comparable.
SQ1-25A-H	Scotland	X	Question not administered or data not internationally comparable.

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# Section 2

Population 1  
Teacher Background Questionnaire

**TQ1-3****QUESTION:**

What is the highest level of formal education you have completed?

International response options:

- 1 = <teacher training w/o completing secondary>
- 2 = <secondary only>
- 3 = <secondary + 1 or 2 year teacher training>
- 4 = <secondary and 3 or 4 year teacher training>
- 5 = <BA or equivalent + no teacher training>
- 6 = <BA or equivalent + teacher training>
- 7 = <MA/Ph.D. with no teacher training>
- 8 = <MA/Ph.D. + teacher training>

(Some countries omitted or modified options in accordance with their national systems.)

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQ1-3	Australia	D	Options 2,5,7 Not Included.
TQ1-3	Austria	X	Question not administered or data not internationally comparable.
TQ1-3	Canada	D	Options 1 and 2 Not Included.
TQ1-3	Czech Republic	D	Options 1,3,4 Not Included. Modified national options recoded to international categories.
TQ1-3	England	D	Option 6 includes Bachelor of Education and BA plus teacher training. Modified format with national options recoded to international categories.
TQ1-3	Greece	D	Options 1,2,5,7 Not Included.
TQ1-3	Hong Kong	D	Not asked of science teachers.
TQ1-3	Hungary	D	Option 1 includes Teacher Training as part of secondary school; Option 3 Not Included. Modified national options recoded to international categories.
TQ1-3	Iceland	D	Option 4 not included; Option 1 combines two options based on older teacher training system (teacher training as part of secondary education); Option 6 combines Bachelor of Education (B.Ed.) and BA or BS with teacher training.
TQ1-3	Iran	D	Options 7 and 8 Not Included.
TQ1-3	Ireland	D	Options 1 and 4 Not Included; Option 6 combines Bachelor with Higher Diploma of Education (H. Dip. Ed.) or Bachelor of Education.
TQ1-3	Israel	D	Option 1 Not Included.
TQ1-3	Japan	X	Question not administered or data not internationally comparable.
TQ1-3	Korea	D	Options 1,3,4,5,7 Not Included.
TQ1-3	Netherlands	D	Options 2,3,5 Not Included; Option 6 includes MOA and MOB. Modified national options recoded to international categories.
TQ1-3	New Zealand	D	Option 5 includes BA with an education component but no teacher training. Modified national options recoded to international categories.
TQ1-3	Norway	D	Option 1 Not Included. Additional national option for other education coded as invalid.
TQ1-3	Portugal	D	Options 1,2,7,8 Not Included. Modified national options recoded to international categories.
TQ1-3	Scotland	D	Options 1,2,3 Not Included.
TQ1-3	Singapore	D	Option 1 includes General Certificate of Education Ordinary Level (GCE O) with or without teacher training.
TQ1-3	Thailand	D	Option 4 Not Included; Option 6 combines Bachelor of Education (B.Ed.) and BA plus Teacher Training.
TQ1-3	United States	D	Options 1-4 Not Included.

**TQ1-4****QUESTION:**

Do not teach mathematics this year.  
(This is a filter for 4A-O.)

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQ1-4	England	X	Filter not asked.
TQ1-4	Hong Kong	X	Filter not asked.
TQ1-4	Netherlands	X	Filter not asked.
TQ1-4	Scotland	X	Filter not asked.

**TQ1-4A-O****QUESTION:**

At which grade levels are you teaching mathematics during this school year?

A: pre-kindergarten;

B: kindergarten;

C: grade 1;

⋮

O: grade 13.

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQ1-4A	Australia	X	Grade options not included: Pre-kindergarten.
TQ1-4A,B,L-O	Austria	X	Grade options not included: Pre-kindergarten, kindergarten, grade 10 through grade 13.
TQ1-4A,B,L-O	Czech Republic	X	Grade options not included: Pre-kindergarten, kindergarten, grade 10 through grade 13.
TQ1-4O	England	X	Grade options not included: Grade 13.
TQ1-4A,B,I-O	Greece	X	Grade options not included: Pre-kindergarten, kindergarten, grade 7 through grade 13.
TQ1-4A,B,I-O	Hong Kong	X	Grade options not included: Pre-kindergarten, kindergarten, grade 7 through grade 13.
TQ1-4A	Iceland	X	Grade options not included: Pre-kindergarten.
TQ1-4A,B,H-O	Iran	X	Grade options not included: Pre-kindergarten, kindergarten, grade 6 through grade 13.
TQ1-4I-O	Ireland	X	Grade options not included: Grade 7 through grade 13.
TQ1-4O	Korea	X	Grade options not included: Grade 13.
TQ1-4A-E,K-O	Kuwait	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 3, and grade 9 through grade 13.
TQ1-4A,I-O	Netherlands	X	Grade options not included: Pre-kindergarten, grade 7 through and grade 13.
TQ1-4A,B	New Zealand	X	Grade options not included: Pre-kindergarten and kindergarten.
TQ1-4A,B,L-O	Norway	X	Grade options not included: Pre-kindergarten, kindergarten, grade 10 through grade 13.
TQ1-4O	Portugal	X	Grade options not included: Grade 13.
TQ1-4A,J-O	Scotland	X	Grade options not included: Pre-kindergarten, grade 8 through grade 13.
TQ1-4A,B,K-O	Slovenia	X	Grade options not included: Pre-kindergarten, kindergarten, grade 9 through grade 13.
TQ1-4O	Thailand	X	Grade options not included: Grade 13.
TQ1-4O	United States	X	Grade options not included: Grade 13.

**TQ1-5****QUESTION:**

Do not teacher science this year.  
(This is a filter for 5A-O.)

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQ1-5	England	X	Filter not asked.
TQ1-5	Netherlands	X	Filter not asked.
TQ1-5	Scotland	X	Filter not asked.

**TQ1-5A-O****QUESTION:**

At which grade levels are you teaching science during this school year?

A: pre-kindergarten;

B: kindergarten;

C: grade 1;

:

O: grade 13.

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQ1-5A	Australia	X	Grade options not included: Pre-kindergarten.
TQ1-5A,B,L-O	Austria	X	Grade options not included: Pre-kindergarten, kindergarten, grade 10 through grade 13.
TQ1-5A,B,L-O	Czech Republic	X	Grade options not included: Pre-kindergarten, kindergarten, grade 10 through grade 13.
TQ1-5O	England	X	Grade options not included: Grade 13.
TQ1-5A,B,I-O	Greece	X	Grade options not included: Pre-kindergarten, kindergarten, grade 7 through grade 13.
TQ1-5A,B,I-O	Hong Kong	X	Grade options not included: Pre-kindergarten, kindergarten, grade 7 through grade 13.
TQ1-5A	Iceland	X	Grade options not included: Pre-kindergarten.
TQ1-5A,B,H-O	Iran	X	Grade options not included: Pre-kindergarten, kindergarten, grade 6 through grade 13.
TQ1-5I-O	Ireland	X	Grade options not included: Grade 7 through grade 13.
TQ1-5O	Korea	X	Grade options not included: Grade 13.
TQ1-5A-E,K-O	Kuwait	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 3, and grade 9 through 13.
TQ1-5A,I-O	Netherlands	X	Grade options not included: Pre-kindergarten, grade 7 through grade 13.
TQ1-5A,B	New Zealand	X	Grade options not included: Pre-kindergarten and kindergarten.
TQ1-5A,B,L-O	Norway	X	Grade options not included: Pre-kindergarten, kindergarten, grade 10 through grade 13.
TQ1-5O	Portugal	X	Grade options not included: Grade 13.
TQ1-5A,J-O	Scotland	X	Grade options not included: Pre-kindergarten, grade 8 through grade 13.
TQ1-5A,B,K-O	Slovenia	X	Grade options not included: Pre-kindergarten, kindergarten, grade 9 through grade 13.
TQ1-5O	Thailand	X	Grade options not included: Grade 13.
TQ1-5O	United States	X	Grade options not included: Grade 13.

**TQ1-6****QUESTION:**

Do you teach part-time or full-time?

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQ1-6	Kuwait	X	Question not administered or data not internationally comparable.
TQ1-6	Singapore	D	Data obtained from ministry.

**TQ1-7****QUESTION:**

By the end of this year, how many years will you have been teaching altogether?

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQ1-7	England	D	Combined years full-time and years part-time.

**TQ1-8****QUESTION:**

At which of these grade levels have you taught in the past 5 years?

A: pre-kindergarten;

B: kindergarten;

C: grade 1;

:

O: grade 13.

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQ1-8A,B,L-O	Austria	X	Grade options not included: Pre-kindergarten, kindergarten, grade 10 through grade 13.
TQ1-8A,M-O	Czech Republic	X	Grade options not included: Pre-kindergarten, grade 11 through grade 13.
TQ1-8L	Czech Republic	D	Translated as secondary school (grades 10 - 13).
TQ1-8O	England	X	Grade options not included: Grade 13.
TQ1-8A,B,I-O	Greece	X	Grade options not included: Pre-kindergarten, kindergarten, grade 7 through grade 13.
TQ1-8A,B,I-O	Hong Kong	X	Grade options not included: Pre-kindergarten, kindergarten, grade 7 through grade 13.
TQ1-8A	Iceland	X	Grade options not included: Pre-kindergarten.
TQ1-8A,B,H-O	Iran	X	Grade options not included: Pre-kindergarten, kindergarten, grade 6 through grade 13.
TQ1-8O	Ireland	X	Grade options not included: Grade 13.
TQ1-8O	Korea	X	Grade options not included: Grade 13.
TQ1-8A-E,K-O	Kuwait	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 3, and 9 through grade 13.
TQ1-8A,I-O	Netherlands	X	Grade options not included: Pre-kindergarten, grade 7 through grade 13.
TQ1-8A,B	New Zealand	X	Grade options not included: Pre-kindergarten and kindergarten.
TQ1-8A,B,O	Norway	X	Grade options not included: Pre-kindergarten, kindergarten, and grade 13.
TQ1-8O	Portugal	X	Grade options not included: Grade 13.
TQ1-8A,J-O	Scotland	X	Grade options not included: Pre-kindergarten, grade 8 through grade 13.
TQ1-8A,B,O	Slovenia	X	Grade options not included: Pre-kindergarten, kindergarten, and grade 13.
TQ1-8O	Thailand	X	Grade options not included: Grade 13.
TQ1-8O	United States	X	Grade options not included: Grade 13.

**TQ1-9****QUESTION:**

How many hours per week do you normally spend on each of the following activities outside the formal school day?

A: preparing or grading exams;

B: reading or grading other student work;

C: planning lessons by yourself;

:

H: administrative tasks including staff meetings.

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQ1-9	Austria	D	Option 5 (More than 4 hours) = combined '5-6 hours' and 'more than 6 hours'.

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**TQ1-10**      **QUESTION:**  
How often do you have meetings with other teachers in your subject area to discuss and plan curriculum or teaching approaches?

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Questionnaire Item ID:	Country:	Code:	Comment:
TQ1-10	Singapore	D	Modified: Option 3 (Every other month) replaced with 'Once/Term'.

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**TQ1-11**      **QUESTION:**  
To be good in math, how important do you think it is for students to...  
A: remember formulas and procedures;  
B: think in a sequential & procedural manner;  
C: understand mathematical concepts;  
:  
F: be able to provide reasons to support their solutions.

---

Questionnaire Item ID:	Country:	Code:	Comment:
TQ1-11A-F	England	X	Question not administered or data not internationally comparable.
TQ1-11A-F	Scotland	X	Question not administered or data not internationally comparable.

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**TQ1-12**      **QUESTION:**  
To what extent do you agree or disagree with each of the following statements?  
A: Mathematics is primarily an abstract subject.  
B: Mathematics is primarily a formal way of representing the real world.  
C: Mathematics is primarily a practical and structured guide for addressing real situations;  
D: If students are having difficulty, an effective approach is to give them more practice by themselves during the class.  
:  
I: A liking for and understanding of students are essential for teaching mathematics.

---

Questionnaire Item ID:	Country:	Code:	Comment:
TQ1-12A-I	England	X	Question not administered or data not internationally comparable.
TQ1-12D,I	Hungary	X	Translation/interpretation problem.
TQ1-12A-I	Scotland	X	Question not administered or data not internationally comparable.

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**TQ1-13****QUESTION:**

Indicate your familiarity with each of the following documents:

- A: <The National Curriculum Guide for Mathematics>
- B: <The National Curriculum Guide for Science>
- C: <The Relevant regional curriculum guide>
- D: <The School Curriculum Guide>
- E: <The National Examination Specifications>
- F: <The Regional Examination Specifications>
- G: <The National Pedagogy Guide for mathematics>
- H: <The Regional Pedagogy Guide for Science>.

(Some countries omitted or modified some options in accordance with their national systems.)

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQ1-13E-H	Australia	X	Questions about these documents not included.
TQ1-13B,F-H	Austria	X	Questions about these documents not included.
TQ1-13A,B,E,F	Canada	X	Questions about these documents not included.
TQ1-13C	Canada	D	Includes higher value of provincial curriculum guide for math and science.
TQ1-13G	Canada	D	Includes data for NCTM Standards; administered in English version only.
TQ1-13H	Canada	D	Includes data for National Science Standards; administered in English version only.
TQ1-13C-H	Cyprus	X	Questions about these documents not included.
TQ1-13E,F	Czech Republic	X	Questions about these documents not included.
TQ1-13A-H	England	X	Question not administered or data not internationally comparable.
TQ1-13C,E,F	Greece	X	Questions about these documents not included.
TQ1-13A,B,D	Hong Kong	D	Not asked of science teachers; data for math and math/science teachers only
TQ1-13C,F,G	Hong Kong	X	Questions about these documents not included.
TQ1-13E	Hong Kong	D	Not asked of science teachers; data for math and math/science teachers = HKEA Exam Syllabus-math.
TQ1-13B,C,F,H	Hungary	X	Questions about these documents not included.
TQ1-13C,F	Iceland	X	Questions about these documents not included.
TQ1-13C,D,F	Iran	X	Questions about these documents not included.
TQ1-13A,B	Ireland	D	Curriculum Book 1 and 2 including math and science; same data in a and b.
TQ1-13C,E-H	Ireland	X	Questions about these documents not included.
TQ1-13C,D,F-H	Kuwait	X	Questions about these documents not included.
TQ1-13A,B,D	Netherlands	D	Questions asked but response option 1 (No Such Document) Not Included.
TQ1-13C,E-H	Netherlands	X	Questions about these documents not included.
TQ1-13E,F,H	Norway	X	Questions about these documents not included.
TQ1-13C,F-H	Portugal	X	Questions about these documents not included.
TQ1-13A-H	Scotland	X	Questions about these documents not included.
TQ1-13C,F	Singapore	X	Questions about these documents not included.
TQ1-13D	Singapore	D	Includes Math Scheme-of-Work.
TQ1-13A	United States	D	No national curricula exist; includes data for National Council of Teachers of Mathematics (NCTM) Professional Standards for Teaching Mathematics.
TQ1-13B,G,H	United States	X	Questions about these documents not included.
TQ1-13C	United States	D	Includes State Education Department Curriculum Guide.
TQ1-13D	United States	D	Includes data for School Curriculum Guide; national option for School District Curriculum Guide not included in international database.
TQ1-13E	United States	D	Includes data for the National Assessment of Educational Progress (NAEP) Assessment Frameworks/Specifications.
TQ1-13F	United States	D	Includes data for State Education Department Assessment Specifications.

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**TQ1-14****QUESTION:**

1. How many boys are in your class?
  2. How many girls are in your class?
- 

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQ1-14	Czech Republic	D	Not asked of science only teachers; data copied from matching math teacher record.
TQ1-14	Hong Kong	D	Not asked of science only teachers; data copied from matching math teacher record.
TQ1-14	Singapore	D	Data obtained at ministry.

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**TQ1-15****QUESTION:**

- What percent of students in your class have:
- A: high achievement levels (i.e. in the top third nationally) ;
  - B: middle achievement levels (middle third nationally);
  - C: low achievement levels ( bottom third nationally).
- 

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQ1-15A-C	England	X	Question not administered or data not internationally comparable.
TQ1-15A-C	Japan	X	Question not administered or data not internationally comparable.
TQ1-15A-C	Scotland	X	Question not administered or data not internationally comparable.
TQ1-15A-C	Singapore	D	Not asked in science version; no data for science-only teachers.

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**TQ1-16****QUESTION:**

How many minutes per week do you teach mathematics to your class?

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQ1-16	Austria	D	Computed from number of lessons/week and duration.
TQ1-16	Greece	D	Data kept in international variable but removed from report variable by NRC due to category ranges.
TQ1-16	Iran	X	Data deleted per NRC.
TQ1-16	Singapore	D	Data obtained from ministry based on teachers' personal time tables.

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**TQ1-17/1****QUESTION:**

Do you use &lt;text&gt; (1A-1J) in your class?

(List of textbooks specific to each country; documentation of national options not available.)

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQ1-17/1A-1J	Australia	X	Question not administered or data not internationally comparable.
TQ1-17/1I,1J	Austria	X	Question not administered or data not internationally comparable.
TQ1-17/1A-1J	Canada	X	Question not administered or data not internationally comparable.
TQ1-17/1C-1J	Cyprus	X	Question not administered or data not internationally comparable.
TQ1-17/1A-1J	Czech Republic	X	Question not administered or data not internationally comparable.
TQ1-17/1A-1J	Hong Kong	X	Question not administered or data not internationally comparable.
TQ1-17/1A-1J	Hungary	X	Question not administered or data not internationally comparable.
TQ1-17/1A-1J	Iran	X	Question not administered or data not internationally comparable.
TQ1-17/1C-1J	Ireland	X	Question not administered or data not internationally comparable.
TQ1-17/1G-1J	Japan	X	Question not administered or data not internationally comparable.
TQ1-17/1G-1J	Kuwait	X	Question not administered or data not internationally comparable.
TQ1-17/1A-1J	New Zealand	X	Question not administered or data not internationally comparable.
TQ1-17/1A-1J	Norway	X	Question not administered or data not internationally comparable.
TQ1-17/1A-1J	Portugal	X	Question not administered or data not internationally comparable.
TQ1-17/1C-1J	Scotland	X	Question not administered or data not internationally comparable.
TQ1-17/1A-1J	Singapore	X	Question not administered or data not internationally comparable.
TQ1-17/1B-1J	Slovenia	X	Question not administered or data not internationally comparable.
TQ1-17/1A-1J	Thailand	X	Question not administered or data not internationally comparable.
TQ1-17/1E-1J	United States	X	Question not administered or data not internationally comparable.

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**TQ1-17/2****QUESTION:**

Name of textbook.

(Open-ended format; coded during data entry. Identification of nationally-defined textbook codes not available.)

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQ1-17/2	England	X	Question not administered or data not internationally comparable.
TQ1-17/2	Greece	X	Question not administered or data not internationally comparable.
TQ1-17/2	Hungary	X	Question not administered or data not internationally comparable.
TQ1-17/2	Iceland	X	Question not administered or data not internationally comparable.
TQ1-17/2	Iran	X	Question not administered or data not internationally comparable.
TQ1-17/2	Ireland	X	Question not administered or data not internationally comparable.
TQ1-17/2	Israel	X	Question not administered or data not internationally comparable.
TQ1-17/2	Kuwait	X	Question not administered or data not internationally comparable.
TQ1-17/2	Slovenia	X	Question not administered or data not internationally comparable.
TQ1-17/2	Thailand	X	Question not administered or data not internationally comparable.

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**TQ1-19****QUESTION:**

Do you divide your class into groups for teaching mathematics?

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQ1-19	Austria	X	Question not administered or data not internationally comparable.
TQ1-19	England	D	Modified response options: Option 2 combines 1/4, 1/2, 3/4 into Sometimes.
TQ1-19	Netherlands	X	Question not administered or data not internationally comparable.

**TQ1-20****QUESTION:**

In your view to what extent do the following limit how you teach your class?

- A: students with different academic abilities;
- B: students from a wide range of backgrounds;
- C: students with special needs;
- D: uninterested students;
- E: disruptive students;
- F: parents interested in their children's learning and progress;
- G: parents uninterested in their children's learning and progress;
- H: shortage of computer hardware;
- I: shortage of computer software;
- J: shortage of other instructional equipment for students' use;
- K: shortage of equipment for your use in demonstrations and other exercises
- L: inadequate physical facilities;
- M: high student/teacher ratio;
- N: low morale among fellow teachers/administrators;
- O: low morale among students;
- P: threats to personal safety or the safety of students.

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQ1-20A-P	England	X	Question not administered or data not internationally comparable.
TQ1-20A-P	Hong Kong	D	Not asked of science teachers.
TQ1-20B-C,E,G	Japan	X	Question not administered or data not internationally comparable.
TQ1-20L,N-P	Japan	X	Question not administered or data not internationally comparable.
TQ1-20A-P	Singapore	D	Not asked in science version; no data for science-only teachers.

**TQ1-21****QUESTION:**

How many of your students have access to calculators during mathematics lessons?

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQ1-21	Australia	D	Option 1 (Almost all) = 'All or Almost All'; Option 5 (None) = Combined 'None' and 'Hardly Any'.
TQ1-21	Austria	D	Modified options: 1 = '100%'; 2 = '>75%'; 3 = '>50%'; 4 = '>25% or <25%'; 5 = 'none'.

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**TQ1-22****QUESTION:**

How often do your students use calculators for the following activities?

- A: checking answers;
  - B: tests & exams;
  - C: routine computation;
  - D: solving complex problems;
  - E: exploring number concepts.
- 

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQ1-22A-E	Scotland	X	Question not administered or data not internationally comparable.

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**TQ1-23****QUESTION:**

When planning mathematics lessons, how much do you rely on:

- A: your own previously prepared lessons;
  - B: a written plan compiled by teachers in the school;
  - C: other teachers or math specialists in your school;
  - :
  - G: external examinations or standardized tests.
- 

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQ1-23A-G	Scotland	X	Question not administered or data not internationally comparable.

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**TQ1-24****QUESTION:**

In planning mathematics lessons, what is your main source of written information when...

A: deciding which topics to teach;

B: deciding how to present a topic;

C: selecting problems &amp; exercises for work in class and homework;

D: selecting problems and applications for assessment and evaluation.

International response options:

1 = other resource books

2 = student edition of textbook

3 = teacher edition of textbook

4 = &lt;School Curriculum Guide&gt;

5 = &lt;National or Regional Curriculum Guide&gt;

6 = &lt;National or Regional Examination Specifications&gt;

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQ1-24A-D	Australia	D	Option 6 Not Included.
TQ1-24A-D	Canada	X	Question not administered or data not internationally comparable.
TQ1-24A-D	Czech Republic	D	Option 6 Not Included.
TQ1-24A-D	England	D	Option 1 combines subject association materials and other resource materials; Option 6 Not Included.
TQ1-24A-D	Greece	D	Option 6 Not Included.
TQ1-24A-D	Iran	D	Option 4 Not Included.
TQ1-24A-D	Ireland	D	Option 6 Not Included.
TQ1-24A-D	Kuwait	D	Options 4,5,6 Not Included.
TQ1-24A-D	Netherlands	D	Option 6 Not Included.
TQ1-24A-D	New Zealand	D	Option 6 Not Included.
TQ1-24A-D	Norway	D	Option 6 Not Included.
TQ1-24A-D	Portugal	D	Options 4 and 6 Not Included; Option 5 combines two questions related to national curriculum guide.
TQ1-24A-D	Scotland	D	Option 6 Not Included.
TQ1-24A-D	United States	D	Option 4 = School Curriculum Guide; Option 5 = State or School District Curriculum Guide; Option 6 = the National Assessment of Educational Progress (NAEP) or Statewide Assessment Guidelines.

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**TQ1-25****QUESTION:**

How long did you spend teaching each of these topic areas to your class this year? Will you cover any of these topics in future <periods>?

- A: whole numbers;  
 B: common & decimal fraction;  
 C: percentages;  
 :  
 U: other mathematics content.

(Note: Documentation on any national modifications made to mathematics topics not available.)

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQ1-25DA	Austria	X	Question not administered or data not internationally comparable.
TQ1-25EA	Austria	X	Question not administered or data not internationally comparable.
TQ1-25RA	Austria	X	Question not administered or data not internationally comparable.
TQ1-25U	Austria	X	Question not administered or data not internationally comparable.
TQ1-25UA	Austria	X	Question not administered or data not internationally comparable.
TQ1-25UB	Austria	X	Question not administered or data not internationally comparable.
TQ1-25UC	Austria	X	Question not administered or data not internationally comparable.
TQ1-25A-UC	England	X	Question not administered or data not internationally comparable.
TQ1-25A-UC	Netherlands	X	Question not administered or data not internationally comparable.
TQ1-25P2	Norway	X	Question not administered or data not internationally comparable.
TQ1-25P2A	Norway	X	Question not administered or data not internationally comparable.
TQ1-25P2B	Norway	X	Question not administered or data not internationally comparable.
TQ1-25P2C	Norway	X	Question not administered or data not internationally comparable.
TQ1-25A-UC	Scotland	X	Question not administered or data not internationally comparable.
TQ1-25A-UC	Singapore	D	Data obtained by ministry based on teachers' scheme-of-work.

**TQ1-26****QUESTION:**

Think of the last <lesson> in which you taught mathematics.

A: How many minutes was the lesson?

B: For each of the following mathematics topics, indicate if it was the subject of this lesson.

- 1) whole number;  
 2) common fraction;  
 3) decimal fractions ;  
 :  
 20) other mathematics content.

D: Did you assign homework after the class?

E: If yes, how long would it take a typical student to complete this homework?

(Note: Documentation on any national modifications made to mathematics topics not available.)

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQ1-26B01-B20	Austria	X	Question not administered or data not internationally comparable.
TQ1-26A-E	England	X	Question not administered or data not internationally comparable.
TQ1-26A-E	Scotland	X	Question not administered or data not internationally comparable.

**TQ1-27****QUESTION:**

How did the lesson proceed?

A: The order in which the activities listed took place and approximate number of minutes for each activity lasted:

- AA1) review of previous lesson(s);
- AB1) a short quiz or test to review previous lesson;
- :
- AK1) student laboratory or data collection activity.

B: In this class did the students work in small groups?

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQ1-27A-B	England	X	Question not administered or data not internationally comparable.
TQ1-27B	Netherlands	X	Question not administered or data not internationally comparable.
TQ1-27AA1-AK2	Scotland	X	Question not administered or data not internationally comparable.
TQ1-27B	Scotland	X	Question not administered or data not internationally comparable.

**TQ1-28****QUESTION:**

In your mathematics lessons, how often do you ask students to do each of the following?

- A: explain reasoning behind an idea;
- B: represent & analyze relationships using tables, charts, or graphs;
- C: work on problems with no obvious method of solution;
- D: use computers to solve exercises and problems;
- E: write equations to represent relationships;
- F: practice computational skills.

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQ1-28A-F	England	X	Question not administered or data not internationally comparable.
TQ1-28F	Greece	X	Translation/interpretation problem.
TQ1-28D	Hungary	X	Translation/interpretation problem.
TQ1-28D	Iceland	X	Translation/interpretation problem.
TQ1-28D	Israel	X	Translation/interpretation problem.
TQ1-28F	Japan	X	Question not administered or data not internationally comparable.
TQ1-28F	Latvia	X	Translation/interpretation problem.
TQ1-28A-F	Scotland	X	Question not administered or data not internationally comparable.

**TQ1-29****QUESTION:**

In your mathematics lessons, how frequently do you do the following when a student gives an incorrect response?

- A: correct the student in front of the class;
- B: ask the student another question to help him or her get the correct response;
- C: call on a student who's likely to give the correct response;
- D: call on other students to get their responses & then discuss what is correct.

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQ1-29A-D	Scotland	X	Question not administered or data not internationally comparable.

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**TQ1-31**      **QUESTION:**  
How often do you assign mathematics homework?

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<b>Questionnaire Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQ1-31	Austria	D	Option 1 = 'Never or hardly ever'; 4 Combines '3 or 4 times/week' and 'every lesson'. Option 5 Not Included.
TQ1-31	Hungary	D	Option 4 combines '3-4 lessons/week' and 'every lesson'; Option 5 Not Included.

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**TQ1-32**      **QUESTION:**  
If you assign mathematics homework, how many minutes of homework do you usually assign your students?

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<b>Questionnaire Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQ1-32	Austria	D	Option 1 (I do not assign homework) omitted; determined from TQ1-31 Option 1.
TQ1-32	England	X	Question not administered or data not internationally comparable.

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**TQ1-33**      **QUESTION:**  
If you assign mathematics homework, how often do you assign each of the following kinds of tasks?  
A: worksheets for homework;  
B: problem/question sets in textbook;  
C: reading in a textbook or supplementary materials;  
:  
J: keeping a journal.

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<b>Questionnaire Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQ1-33A-J	Austria	D	Option 5 (I do not assign homework) omitted; determined from TQ1-31 Option 1.
TQ1-33A-J	England	X	Question not administered or data not internationally comparable.
TQ1-33A-J	Scotland	X	Question not administered or data not internationally comparable.

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**TQ1-34**      **QUESTION:**  
If students are assigned written mathematics homework, how often do you do the following?  
A: record whether or not homework was completed;  
B: collect, correct and keep homework assignments;  
C: collect, correct and return homework assignments;  
:  
H: use it to contribute towards students' grades or marks.

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<b>Questionnaire Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQ1-34A-H	Austria	D	Option 5 (I do not assign homework) omitted; determined from TQ1-31 Option 1.
TQ1-34A-H	England	X	Question not administered or data not internationally comparable.
TQ1-34A-H	Scotland	X	Question not administered or data not internationally comparable.

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**TQ1-35****QUESTION:**

Is science taught as a separate subject to your class?  
(This is a filter for TQ1-35A,B.)

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQ1-35	Austria	X	Filter question Not Included.
TQ1-35	Czech Republic	D	Question not asked of science teachers; data copied from math teacher record for matching class.
TQ1-35	Greece	X	Data not comparable; deleted per NRC.
TQ1-35	Iran	X	Data deleted per NRC.
TQ1-35	Singapore	D	Data obtained from ministry.

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**TQ1-35A,B****QUESTION:**

A: If yes, how many minutes per week is science taught to your class?  
B: If no, how many minutes per week are spent on science related instruction?

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQ1-35A	Austria	D	Asked one question about science as a separate subject - excluding integrated science.
TQ1-35B	Austria	X	Question not administered or data not internationally comparable.
TQ1-35A,B	Czech Republic	D	Question not asked of science teachers; data copied from math teacher record for matching class.
TQ1-35A,B	Greece	X	Data not comparable; deleted per NRC.
TQ1-35A,B	Iran	X	Data deleted per NRC.
TQ1-35B	Japan	X	Question not administered or data not internationally comparable.
TQ1-35A	Norway	X	Question not administered or data not internationally comparable.
TQ1-35A	Singapore	D	Data obtained from ministry based on teachers' personal time tables.
TQ1-35B	Singapore	X	Question not administered or data not internationally comparable.

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**TQ1-37****QUESTION:**

How long did you spend teaching each of these topic areas to your class this year? Will you cover any of these topics in future <periods>?

- A: earth features;  
 B: weather;  
 C: earth processes;  
 :  
 X: data analysis.

(Note: Documentation on any national modifications made to mathematics topics not available.)

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQ1-37H4A	Austria	X	Question not administered or data not internationally comparable.
TQ1-37JA	Austria	X	Question not administered or data not internationally comparable.
TQ1-37A-X4C	England	X	Question not administered or data not internationally comparable.
TQ1-37A3	Korea	X	Question not administered or data not internationally comparable.
TQ1-37A3A-3C	Korea	X	Question not administered or data not internationally comparable.
TQ1-37H	Korea	X	Question not administered or data not internationally comparable.
TQ1-37HA-HC	Korea	X	Question not administered or data not internationally comparable.
TQ1-37Q1	Korea	X	Question not administered or data not internationally comparable.
TQ1-37Q1A-1C	Korea	X	Question not administered or data not internationally comparable.
TQ1-37A-X4C	Netherlands	X	Question not administered or data not internationally comparable.
TQ1-37A-X4C	Scotland	X	Question not administered or data not internationally comparable.
TQ1-37A-X4C	Singapore	D	Data obtained by ministry from teachers' scheme-of-work.

**TQ1-38****QUESTION:**

Was teaching your first choice as a career when beginning university?

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQ1-38	Hong Kong	X	Question not administered or data not internationally comparable.
TQ1-38	Iran	X	Question not administered or data not internationally comparable.
TQ1-38	Japan	X	Question not administered or data not internationally comparable.
TQ1-38	Norway	X	Question not administered or data not internationally comparable.
TQ1-38	Scotland	X	Question not administered or data not internationally comparable.
TQ1-38	Singapore	X	Question not administered or data not internationally comparable.
TQ1-38	United States	X	Question not administered or data not internationally comparable.

**TQ1-39****QUESTION:**

Would you change to another career if you had the opportunity?

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQ1-39	Hong Kong	X	Question not administered or data not internationally comparable.
TQ1-39	Iran	X	Question not administered or data not internationally comparable.
TQ1-39	Japan	X	Question not administered or data not internationally comparable.
TQ1-39	Norway	X	Question not administered or data not internationally comparable.
TQ1-39	Scotland	X	Question not administered or data not internationally comparable.
TQ1-39	Singapore	X	Question not administered or data not internationally comparable.
TQ1-39	United States	X	Question not administered or data not internationally comparable.

**TQ1-40****QUESTION:**

Do you think that society appreciates your work?

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQ1-40	Hong Kong	X	Question not administered or data not internationally comparable.
TQ1-40	Iran	X	Question not administered or data not internationally comparable.
TQ1-40	Japan	X	Question not administered or data not internationally comparable.
TQ1-40	Netherlands	X	Question not administered or data not internationally comparable.
TQ1-40	Norway	X	Question not administered or data not internationally comparable.
TQ1-40	Scotland	X	Question not administered or data not internationally comparable.
TQ1-40	Singapore	X	Question not administered or data not internationally comparable.
TQ1-40	United States	X	Question not administered or data not internationally comparable.

**TQ1-41****QUESTION:**

Do you think your students appreciate your work?

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQ1-41	Hong Kong	X	Question not administered or data not internationally comparable.
TQ1-41	Iran	X	Question not administered or data not internationally comparable.
TQ1-41	Ireland	X	Question not administered or data not internationally comparable.
TQ1-41	Japan	X	Question not administered or data not internationally comparable.
TQ1-41	Netherlands	X	Question not administered or data not internationally comparable.
TQ1-41	Norway	X	Question not administered or data not internationally comparable.
TQ1-41	Scotland	X	Question not administered or data not internationally comparable.
TQ1-41	Singapore	X	Question not administered or data not internationally comparable.
TQ1-41	United States	X	Question not administered or data not internationally comparable.

**TQ1-42****QUESTION:**

Approximately how many books are in your home?

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQ1-42	Austria	X	Question not administered or data not internationally comparable.
TQ1-42	England	X	Question not administered or data not internationally comparable.
TQ1-42	Hong Kong	X	Question not administered or data not internationally comparable.
TQ1-42	Iran	X	Question not administered or data not internationally comparable.
TQ1-42	Ireland	X	Question not administered or data not internationally comparable.
TQ1-42	Japan	X	Question not administered or data not internationally comparable.
TQ1-42	Netherlands	X	Question not administered or data not internationally comparable.
TQ1-42	Norway	X	Question not administered or data not internationally comparable.
TQ1-42	Scotland	X	Question not administered or data not internationally comparable.
TQ1-42	Singapore	X	Question not administered or data not internationally comparable.
TQ1-42	United States	X	Question not administered or data not internationally comparable.

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**TQ1-43****QUESTION:**

Please rank the following professions in order of social status.

A: accountant;

B: medical doctor;

C: lawyer;

D: engineer;

:

G: teacher, primary school;

H: teacher, secondary school;

I: unskilled worker.

---

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQ1-43A-I	Austria	D	Used rankings of 1-12; values rescaled to 1-9.
TQ1-43H	Austria	X	Question not administered or data not internationally comparable.
TQ1-43A-I	Hong Kong	X	Question not administered or data not internationally comparable.
TQ1-43A-I	Iran	X	Question not administered or data not internationally comparable.
TQ1-43A-I	Japan	X	Question not administered or data not internationally comparable.
TQ1-43D	Netherlands	X	Question not administered or data not internationally comparable.
TQ1-43A-I	Norway	X	Question not administered or data not internationally comparable.
TQ1-43A-I	Scotland	X	Question not administered or data not internationally comparable.
TQ1-43A-I	Singapore	X	Question not administered or data not internationally comparable.
TQ1-43A-I	United States	X	Question not administered or data not internationally comparable.

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# Section 3

Population 1  
School Background Questionnaire

**SCQ1-1****QUESTION:**

In what type of community is your school located?

1. A geographically isolated area;
2. Village or rural (farm) area;
3. One of the outskirts of a town/city;
4. One close to the center of a town/city.

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SCQ1-1	Australia	D	Modified options recoded to international categories: 2 = 'Small Rural Center or Small Country Town'; 3 = 'Semi-Rural/Outer Metropolitan or Suburban Area'; 4 = 'Country/Provincial Town or Inner Suburban Area'.
SCQ1-1	Netherlands	D	Option 1 (a geographically isolated area) Not Included.
SCQ1-1	Singapore	D	Data obtained from ministry.

**SCQ1-2****QUESTION:**

Which of the following grade levels are found in your school?

- A: pre-kindergarten;  
 B: kindergarten;  
 C: grade 1;  
 :  
 O: grade 13.

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SCQ1-2A,B,L-O	Austria	X	Grade options not included: Pre-kindergarten, kindergarten, grade 10 through grade 13.
SCQ1-2A-O	England	D	Data obtained from ministry.
SCQ1-2A,B,I-O	Greece	X	Grade options not included: Pre-kindergarten, kindergarten, grade 7 through grade 13.
SCQ1-2A,B,I-O	Hong Kong	X	Grade options not included: Pre-kindergarten, kindergarten, grade 7 through grade 13.
SCQ1-2A	Iceland	X	Grade options not included: Pre-kindergarten.
SCQ1-2A,B,H-O	Iran	X	Grade options not included: Pre-kindergarten, kindergarten, grade 6 through grade 13.
SCQ1-2I-O	Ireland	X	Grade options not included: Grade 7 through grade 13.
SCQ1-2A-O	Japan	X	Question not asked or data not internationally comparable.
SCQ1-2O	Korea	X	Grade options not included: Grade 13.
SCQ1-2A,I-O	Netherlands	X	Grade options not included: Pre-kindergarten and grade 7 through grade 13.
SCQ1-2B-H	Netherlands	D	Data obtained from ministry.
SCQ1-2A,B	New Zealand	X	Grade options not included: Pre-kindergarten and kindergarten.
SCQ1-2A,L-O	Norway	X	Grade options not included: Pre-kindergarten, grade 10 through grade 13.
SCQ1-2O	Portugal	X	Grade options not included: Grade 13.
SCQ1-2A,B,J-O	Scotland	X	Grade options not included: Pre-kindergarten, kindergarten, and grade 8 through grade 13.
SCQ1-2C-I	Scotland	D	Data obtained from ministry.
SCQ1-2A-O	Singapore	D	Data obtained from ministry.
SCQ1-2K-O	Slovenia	X	Grade options not included: Grade 9 through grade 13.
SCQ1-2O	Thailand	X	Grade options not included: Grade 13.
SCQ1-2O	United States	X	Grade options not included: Grade 13.

---

**SCQ1-3****QUESTION:**

How many of the following are on the staff of your school (in FTE- full time equivalents)?

International options:

A: principals;

B: assistant principals;

C: classroom teachers;

D: teacher aides;

E: other professional staff.

(Some countries omitted options not appropriate in their schools.)

---

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ1-3D	Austria	X	School staff options not included: Teacher aides.
SCQ1-3A-E	England	X	Question not asked or data not internationally comparable.
SCQ1-3D	Hong Kong	X	School staff options not included: Teacher aides.
SCQ1-3D	Netherlands	X	School staff options not included: Teacher aides.
SCQ1-3B	Portugal	X	School staff options not included: Assistant principals.
SCQ1-3A-C	Scotland	D	Data obtained from ministry.
SCQ1-3D,E	Scotland	X	School staff options not included: Teacher aides and other professional staff.
SCQ1-3A,B,D	Singapore	D	Data obtained from ministry.
SCQ1-3C	Singapore	D	Asked number of teachers instead of FTEs (includes Department Heads and relief teachers).
SCQ1-3E	Singapore	D	Asked number of staff members instead of FTEs.

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**SCQ1-4****QUESTION:**

How many individual classroom teachers are there in your school?

A: full-time;

B: part-time.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ1-4A,B	Scotland	D	Data obtained from ministry.
SCQ1-4A	Singapore	D	Not asked; computed as number of teachers + department heads from SCQ1-3c.
SCQ1-4B	Singapore	D	Data obtained from ministry; no part-time teachers.

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**SCQ1-5****QUESTION:**

What percentage of the classroom teachers have been at your school for 5 or more years?

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ1-5	England	D	Derived from number of teachers at school 5 years or more as a percentage of all teachers.
SCQ1-5	Singapore	D	Asked number of teachers; computed percent based on SCQ1-3c.

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**SCQ1-6****QUESTION:**

What percentage of the classroom teachers teach...

A: three quarters or more of their teaching load in mathematics;

B: no mathematics;

C: three quarters or more of their teaching load in science subjects;

D: no science subjects;

E: three quarters or more of their teaching load in mathematics AND science subjects;

F: no mathematics OR science subjects.

---

**Questionnaire****Item ID:****Country:****Code:****Comment:**

SCQ1-6E,F	Australia	X	Question not asked or data not internationally comparable.
SCQ1-6A-F	Austria	X	Question not asked or data not internationally comparable.
SCQ1-6A-F	England	X	Question not asked or data not internationally comparable.
SCQ1-6A-F	Ireland	X	Question not asked or data not internationally comparable.
SCQ1-6A-F	Netherlands	X	Question not asked or data not internationally comparable.
SCQ1-6A-F	Singapore	D	Asked number of teachers; computed percents based on SCQ1-3c.

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**SCQ1-8****QUESTION:**

During the school week, about how many hours do teachers usually have for...

A: tasks related to teaching mathematics;

B: teaching mathematics;

C: tasks related to teaching science;

D: teaching science.

---

**Questionnaire****Item ID:****Country:****Code:****Comment:**

SCQ1-8A-D	Austria	X	Question not asked or data not internationally comparable.
SCQ1-8A-D	England	X	Question not asked or data not internationally comparable.
SCQ1-8A-D	Hong Kong	X	Question not asked or data not internationally comparable.
SCQ1-8A-D	Norway	X	Question not asked or data not internationally comparable.
SCQ1-8A-D	Singapore	D	Data obtained from ministry.

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**SCQ1-9****QUESTION:**

Cooperation and collaboration:

A: Does your school have policy promoting cooperation & collaboration among teachers?

B: Are teachers in your school encouraged to share & discuss instructional ideas & materials?

C: Do teachers meet regularly to discuss instructional goals & issues?

---

**Questionnaire****Item ID:****Country:****Code:****Comment:**

SCQ1-9A-C	England	X	Question not asked or data not internationally comparable.
SCQ1-9A-C	Norway	X	Question not asked or data not internationally comparable.
SCQ1-9A-C	Scotland	X	Question not asked or data not internationally comparable.

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**SCQ1-10****QUESTION:**

As principal, how many hours per month do you spend on the following activities?

A: hiring teachers;

B: representing the school in the community;

C: representing the school at official meetings;

:

N: other activities.

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**Questionnaire****Item ID:****Country:****Code:****Comment:**

SCQ1-10N

Austria

D

Combine 3 national 'other' options asked in parts n,o,p.

SCQ1-10A-N

England

X

Question not asked or data not internationally comparable.

SCQ1-10A-N

Scotland

X

Question not asked or data not internationally comparable.



**SCQ1-11****QUESTION:**

In your school, who has primary responsibility for each of the following activities?

- A: hiring teachers;
- B: establishing disciplinary policies;
- C: establishing student grading policies;
- :
- N: deciding which courses are offered.

International response options:

- 1 = not a school responsibility
- 2 = <school's governing board>
- 3 = principal
- 4 = teachers

(Some countries modified or omitted response options in accordance with their national systems.)

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ1-11A-N	Austria	D	Option 4 combines teachers and department heads.
SCQ1-11J	Austria	X	Question not asked or data not internationally comparable.
SCQ1-11A-N	Canada	D	Double-grids (joint responsibility) coded as missing.
SCQ1-11A-N	Cyprus	D	Modified: Option 1 combines Not A School Responsibility and Ministry of Education; Option 2 Not Included.
SCQ1-11A-N	England	X	Question not asked or data not internationally comparable.
SCQ1-11A-C	Greece	D	Option 2 = School Teachers Assembly.
SCQ1-11D,E	Greece	D	Option 2 not comparable; data removed.
SCQ1-11F-N	Greece	D	Option 2 = School Teachers Assembly.
SCQ1-11A-N	Hong Kong	D	Double-grids (joint responsibility) coded as invalid.
SCQ1-11A-E,G	Israel	D	Modified: Option 2 Not Included; Option 3 combines Principal and Coordinator for 4th grade (Department Head).
SCQ1-11F,H,I,M	Israel	D	Modified: Option 2 Not Included; Option 4 combines Teachers and Coordinator for 4th grade (Department Head).
SCQ1-11J-L,N	Israel	D	Modified: Option 2 Not Included; Option 3 combines Principal and Coordinator for 4th grade (Department Head).
SCQ1-11A-L	Japan	D	Option 2 Not Included.
SCQ1-11M,N	Japan	X	Question not asked or data not internationally comparable.
SCQ1-11A-N	Korea	D	Modified: Option 2 Not Included; Option 4 combines Teachers and Department Head.
SCQ1-11A-N	Latvia	D	Option 3 combines Principal and Department Head.
SCQ1-11A-N	Netherlands	D	Option 1 = Another Authority.
SCQ1-11A-N	Norway	X	Question not asked or data not internationally comparable.
SCQ1-11A-M	Portugal	D	Modified: Option 2 = Conselho Escolar
SCQ1-11N	Portugal	X	Question not asked or data not internationally comparable.
SCQ1-11A-N	Scotland	X	Question not asked or data not internationally comparable.
SCQ1-11B,C,F,H	Slovenia	D	Modified: Option 4 combines Teachers and Department Head.
SCQ1-11D,E,G	Slovenia	D	Modified: Option 3 combines Principal and Department Head.
SCQ1-11J,L,M	Slovenia	D	Modified: Option 4 combines Teachers and Department Head.
SCQ1-11A-N	Thailand	D	Modified: Included Department Heads option; coded as missing.

**SCQ1-12****QUESTION:**

How much influence do each of the following have in determining the curriculum that is taught in your school?

International options:

- A: <National Curriculum Council>;
- B: <National Subject Association>;
- C: <educational region or district>;
- D: <school governing board>;
- E: Principal/head of school;
- F: Teachers (collectively for the school);
- G: Teachers (of same subject) as a group;
- H: Each teacher individually;
- I: Parents;
- J: Students;
- K: Church/religious groups;
- L: Business community;
- M: Textbook publishers;
- N: External examinations/standardized tests;
- O: Teacher unions.

(Some countries modified or omitted options in accordance with their national systems.)

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ1-12G	Australia	X	Options not included: Teachers (of same subject as a group).
SCQ1-12A	Canada	X	Options not included: National Curriculum Council.
SCQ1-12A	Cyprus	D	Includes Ministry of Education.
SCQ1-12B-D	Cyprus	X	Options not included: National subject association, educational region or district and school governing board.
SCQ1-12A-O	England	X	Question not asked or data not internationally comparable.
SCQ1-12A	Greece	D	Includes Ministry of Education.
SCQ1-12D	Greece	X	Options not included: School governing board.
SCQ1-12C	Hong Kong	X	Options not included: Educational region or district.
SCQ1-12B,C,G	Ireland	X	Options not included: National subject association, educational region or district and teachers (of same subject as a group).
SCQ1-12D	Japan	X	Options not included: School governing board.
SCQ1-12A-O	Kuwait	X	Question not asked or data not internationally comparable.
SCQ1-12A	Netherlands	D	Includes Ministry of Education.
SCQ1-12B,C	Netherlands	X	Options not included: National subject association and educational region or district.
SCQ1-12A-O	Norway	X	Question not asked or data not internationally comparable.
SCQ1-12A	Portugal	X	Options not included: National curriculum council.
SCQ1-12D	Portugal	X	Not comparable. (Conselho Escolar reported in SCCQ-12f.)
SCQ1-12F	Portugal	D	Includes Conselho Escolar.
SCQ1-12G	Portugal	X	Options not included: Teachers (of same subject as a group).
SCQ1-12A-O	Scotland	X	Question not asked or data not internationally comparable.
SCQ1-12A	Singapore	D	Includes Ministry of Education.
SCQ1-12B,C	Singapore	X	Options not included: National subject association and educational region or district.
SCQ1-12A	United States	X	Options not included: National curriculum council.
SCQ1-12B	United States	D	Combines responses to two questions: National Council of Teachers of Mathematics (NCTM) Standards for Teaching Mathematics and American Association for the Advancement of Science (AAAS) Benchmarks for Science Literacy.

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**SCQ1-13****QUESTION:**

Does your school have its own written statement of the curriculum content to be taught (i.e., other than the national or regional curriculum guides)?

- A: For mathematics;
- B: For science.

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
SCQ1-13A,B	Austria	X	Question not asked or data not internationally comparable.
SCQ1-13A,B	Japan	X	Question not asked or data not internationally comparable.
SCQ1-13A,B	Kuwait	X	Question not asked or data not internationally comparable.
SCQ1-13A,B	Netherlands	D	Data obtained from ministry.

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**SCQ1-14****QUESTION:**

In your school, how many computers are...

- A: available for use by teachers or students;
- B: used by teachers for administrative purposes;
- C: used by teachers during instructional time;
- :
- E: used by office staff for school record keeping.

---

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SCQ1-14B,C	Austria	X	Question not asked or data not internationally comparable.
SCQ1-14E	Austria	X	Question not asked or data not internationally comparable.
SCQ1-14A,B	England	D	Data derived from modified version of questions.
SCQ1-14C	England	X	Question not asked or data not internationally comparable.
SCQ1-14D,E	England	D	Data derived from modified version of questions.

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**SCQ1-15****QUESTION:**

Is your school's capacity to provide instruction affected by a shortage or inadequacy of any of the following?

- A: instructional materials;
- B: budget for supplies;
- C: school buildings & grounds;
- :
- Q: audio-visual resources for science instruction.

---

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SCQ1-15M	Austria	X	Question not asked or data not internationally comparable.
SCQ1-15A-Q	England	D	Option 1 combines 'No Effect' and 'Not Applicable'.
SCQ1-15A-Q	Scotland	X	Question not asked or data not internationally comparable.

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**SCQ1-16A-D****QUESTION:**

The students in your school:

A: total enrollment (A1=boys; A2=girls);

B: percent of students who are absent on a typical school day ;

C: percent of students who finished the whole school year;

D: percent of student who transferred to your school after the beginning of the school year.

---

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ1-16A1-D	Singapore	D	Data obtained from ministry.

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**SCQ1-16E-J****QUESTION:**

The students in your school (concerning lower grade):

E: number of students in lower grade (E1=boys; E2=girls);

F: number of students who are repeating the grade (F1=boys; F2=girls);

G: average class size;

H: number of students in multi-grade classrooms;

I: number of students studying mathematics (I1=boys; I2=girls);

J: number of students studying science (J1=boys; J2=girls).

---

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ1-16G-H	Austria	X	Question not asked or data not internationally comparable.
SCQ1-16I1,I2	Austria	D	Copied data: i=e. All lower grade students study math.
SCQ1-16J1,J2	Austria	D	Copied data: j=e. All lower grade students study science.
SCQ1-16G	England	X	Question not asked or data not internationally comparable.
SCQ1-16I1,I2	England	D	Copied data: i=e. All lower grade students study math.
SCQ1-16J1,J2	England	D	Copied data: j=e. All lower grade students study science.
SCQ1-16H	Hong Kong	X	Question not asked or data not internationally comparable.
SCQ1-16I1,I2	Hong Kong	D	Copied data: i=e. All lower grade students study math.
SCQ1-16J1,J2	Hong Kong	D	Copied data: j=e. All lower grade students study science.
SCQ1-16E1-P2	Hungary	X	Question not asked or data not internationally comparable.
SCQ1-16H	Ireland	X	Question not asked or data not internationally comparable.
SCQ1-16J1,J2	Ireland	X	Question not asked or data not internationally comparable.
SCQ1-16H	Israel	X	Question not asked or data not internationally comparable.
SCQ1-16I1,I2	Netherlands	D	Copied data: i=e. All lower grade students study math.
SCQ1-16J1,J2	Netherlands	D	Copied data: j=e. All lower grade students study science.
SCQ1-16F1,F2	Norway	X	Question not asked or data not internationally comparable.
SCQ1-16I1,I2	Norway	D	Copied data: i=e. All lower grade students study math.
SCQ1-16J1,J2	Norway	D	Copied data: j=e. All lower grade students study science.
SCQ1-16H	Portugal	X	Question not asked or data not internationally comparable.
SCQ1-16I1,I2	Portugal	D	Copied data: i=e. All lower grade students study math.
SCQ1-16J1,J2	Portugal	D	Copied data: j=e. All lower grade students study science.
SCQ1-16E1-J2	Singapore	D	Data obtained from ministry.

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**SCQ1-16K-P****QUESTION:**

The students in your school (concerning upper grade):

K: number of students in upper grade (K1=boys; K2=girls);

L: number of students who are repeating the grade (L1=boys; L2=girls);

M: average class size;

N: number of students in multi-grade classrooms;

O: number of students studying mathematics (O1=boys; O2=girls);

P: number of students studying science (P1=boys; P2=girls).

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ1-16M,N	Austria	X	Question not asked or data not internationally comparable.
SCQ1-16O1,O2	Austria	D	Copied data: o=k. All upper grade students study math.
SCQ1-16P1,P2	Austria	D	Copied data: p=k. All upper grade students study science.
SCQ1-16M	England	X	Question not asked or data not internationally comparable.
SCQ1-16O1,O2	England	D	Copied data: o=k. All upper grade students study math.
SCQ1-16P1,P2	England	D	Copied data: p=k. All upper grade students study science.
SCQ1-16N	Hong Kong	X	Question not asked or data not internationally comparable.
SCQ1-16O1,O2	Hong Kong	D	Copied data: o=k. All upper grade students study math.
SCQ1-16P1,P2	Hong Kong	D	Copied data: p=k. All upper grade students study science.
SCQ1-16K1-P2	Hungary	X	Question not asked or data not internationally comparable.
SCQ1-16N	Ireland	X	Question not asked or data not internationally comparable.
SCQ1-16P1,P2	Ireland	X	Question not asked or data not internationally comparable.
SCQ1-16N	Israel	X	Question not asked or data not internationally comparable.
SCQ1-16N	Kuwait	X	Question not asked or data not internationally comparable.
SCQ1-16O1,O2	Netherlands	D	Copied data: o=k. All upper grade students study math.
SCQ1-16P1,P2	Netherlands	D	Copied data: p=k. All upper grade students study science.
SCQ1-16L1,L2	Norway	X	Question not asked or data not internationally comparable.
SCQ1-16O1,O2	Norway	D	Copied data: o=k. All upper grade students study math.
SCQ1-16P1,P2	Norway	D	Copied data: p=k. All upper grade students study science.
SCQ1-16N	Portugal	X	Question not asked or data not internationally comparable.
SCQ1-16O1,O2	Portugal	D	Copied data: o=k. All upper grade students study math.
SCQ1-16P1,P2	Portugal	D	Copied data: p=k. All upper grade students study science.
SCQ1-16K1-P2	Singapore	D	Data obtained from ministry.

**SCQ1-17****QUESTION:**

How often does school administration or staff have to deal with the following behaviors among students?

A: arriving late at school;

B: absenteeism;

C: skipping class;

:

M: physical injury to teachers or staff.

(This question is made up of two parts, with part 1 (17A1-M1) asking of the frequency of the occurrence and part 2 (17A2-M2) asking of the percentage of students involved for each of the behavior listed).

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ1-17D1,D2	Australia	X	Question not asked or data not internationally comparable.
SCQ1-17A2-M2	Austria	X	Questions of part 2 (percentage) were not asked.
SCQ1-17A1-M2	England	X	Question not asked or data not internationally comparable.
SCQ1-17A1-M2	Hungary	X	Question not asked or data not internationally comparable.
SCQ1-17A1-M2	Japan	X	Question not asked or data not internationally comparable.
SCQ1-17A1-M2	Norway	X	Question not asked or data not internationally comparable.
SCQ1-17A1-M2	Scotland	X	Question not asked or data not internationally comparable.

**SCQ1-18****QUESTION:**

A: How many instructional days are in the school year?

B: How many full instructional days are there in the school week?

C: How many half instructional days are there in the school week?

D: How many hours in total are there in the school week?

E: How many instructional hours are there in the school week?

(Filter-18 asks if the instructional time is the same for both upper & lower grades, followed by two parts, with part 1 (18A1-E1) for lower grade and part 2 (18A2-E2) for upper grade).

(Note: If 18 filter = Yes, data copied from upper-grade to lower-grade for all parts.)

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ1-18	Austria	X	Filter not administered.
SCQ1-18A1,A2	Austria	D	Only asked one question; upper grade=lower grade.
SCQ1-18B1,B2	Austria	D	Only asked one question; upper grade=lower grade.
SCQ1-18C1,C2	Austria	D	Only asked one question; upper grade=lower grade.
SCQ1-18B1,B2	Greece	D	Some data obtained from ministry; 100% 5 full-time days.
SCQ1-18C1,C2	Greece	X	Question not asked or data not internationally comparable.
SCQ1-18	Hungary	D	Data obtained from ministry.
SCQ1-18A1-E2	Hungary	D	Used modified questionnaire: lower grade = grades 1-4. Copied data: lower grade = upper grade.
SCQ1-18	Ireland	D	Data obtained from ministry.
SCQ1-18A1-E2	Ireland	D	Copied data: lower grade = upper grade.
SCQ1-18	Israel	X	Filter not asked.
SCQ1-18	Kuwait	X	Question not asked or data not internationally comparable.
SCQ1-18A1-E2	Kuwait	X	Question not asked or data not internationally comparable.
SCQ1-18D1,D2	Netherlands	X	Question not asked or data not internationally comparable.
SCQ1-18	Norway	X	Question not asked or data not internationally comparable.
SCQ1-18A1,A2	Norway	D	Data obtained from ministry.
SCQ1-18B1-D2	Norway	X	Question not asked or data not internationally comparable.
SCQ1-18E1,E2	Norway	D	Data obtained from ministry.
SCQ1-18	Singapore	D	Data obtained from ministry.
SCQ1-18A1-E2	Singapore	D	Data obtained from ministry.
SCQ1-18	Thailand	X	Filter not asked.

**SCQ1-19****QUESTION:**

Is the school week divided into instructional hours/periods?

(This is a filter for 19A-B).

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ1-19	Austria	X	Filter not administered.
SCQ1-19	Hong Kong	X	Filter Not Administered.
SCQ1-19	Hungary	D	Used same data for Population 1 and Population 2.
SCQ1-19	Japan	X	Question not asked or data not internationally comparable.
SCQ1-19	Kuwait	X	Question not asked or data not internationally comparable.
SCQ1-19	Netherlands	X	Question not asked or data not internationally comparable.

---

**SCQ1-19A-B****QUESTION:**

If yes,

A: How many instructional periods are there in a week?

B: How many minutes is a typical instructional period?

(Two parts of responses are expected, with part 1 (19A1 & B1) for lower grade & part 2 (19A2 & B2) for upper grade.

---

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ1-19A1-B2	Hong Kong	D	Asked a single question; copied lower grade = upper grade.
SCQ1-19A1-B2	Hungary	D	Used modified questionnaire: lower grade = grades 1-4. Copied data: lower grade = upper grade.
SCQ1-19A1-B2	Ireland	D	Copied data: lower grade = upper grade.
SCQ1-19A1-B2	Japan	X	Question not asked or data not internationally comparable.
SCQ1-19A1-B2	Kuwait	X	Question not asked or data not internationally comparable.
SCQ1-19A1-B2	Netherlands	X	Question not asked or data not internationally comparable.
SCQ1-19A1-B2	Norway	D	Data obtained from ministry.

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**SCQ1-20****QUESTION:**

Does your school provide remedial teaching in mathematics?

Filter: (Yes/No--20).

If yes, how is this organized? (20A-D)

A: Groups are formed within regular mathematics class;

B: Students are withdrawn from their regular mathematics class;

C: Students receive extra <tuition> before or after school;

D: Other.

---

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ1-20	Slovenia	D	Filter not administered; computed based on responses to a,b,c,d.

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**SCQ1-21****QUESTION:**

Does your school provide remedial teaching in science?

Filter: (Yes/No--21).

If yes, how is this organized? (21A-D)

A: Groups are formed within regular science class;

B: Students are withdrawn from their regular science class;

C: Students receive extra <tuition> before or after school;

D: Other.

---

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ1-21A-D	Austria	X	Question not asked or data not internationally comparable.
SCQ1-21A-D	Norway	X	Question not asked or data not internationally comparable.
SCQ1-21	Slovenia	D	Filter not administered; computed based on responses to a,b,c,d.

---

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**SCQ1-22****QUESTION:**

Does your school provide special enrichment activities in mathematics for advanced students?

Filter: (Yes/No--22).

If yes, how is this organized? (22A-D)

A: Groups are formed within regular mathematics class;

B: Students are withdrawn from their regular mathematics class;

C: Students receive extra &lt;tuition&gt; before or after school;

D: Other.

---

**Questionnaire****Item ID:****Country:****Code:****Comment:**

SCQ1-22

Slovenia

D

Filter not administered; computed based on responses to a,b,c,d.

---

**SCQ1-23****QUESTION:**

Does your school provide special enrichment in science for advanced students?

Filter: (Yes/No--23).

If yes, how is this organized? (23A-D)

A: Groups are formed within regular science class;

B: Students are withdrawn from their regular science class;

C: Students receive extra &lt;tuition&gt; before or after school;

D: Other.

---

**Questionnaire****Item ID:****Country:****Code:****Comment:**

SCQ1-23A-D

Austria

X

Question not asked or data not internationally comparable.

SCQ1-23

Norway

X

Question not asked or data not internationally comparable.

SCQ1-23A-D

Norway

X

Question not asked or data not internationally comparable.

---

**SCQ1-24****QUESTION:**

Do all students in upper grade follow the same course of study in mathematics?

(This is a filter for 24A,B; 24C-F; and 25A-H.)

---

**Questionnaire****Item ID:****Country:****Code:****Comment:**

SCQ1-24

Austria

X

Question not asked or data not internationally comparable.

SCQ1-24

England

X

Filter Not Administered.

SCQ1-24

Hungary

X

Question not asked or data not internationally comparable.

SCQ1-24

Japan

X

Question not asked or data not internationally comparable.

SCQ1-24

Kuwait

X

Question not asked or data not internationally comparable.

SCQ1-24

Norway

D

Data obtained from ministry.

SCQ1-24

Singapore

D

Data obtained from ministry.



---

**SCQ1-24A,B****QUESTION:**

If yes, then...

A: How many instructional minutes per week are students in the upper grade required to spend in mathematics classes?

B: How many instructional weeks per year are students in the upper grade required to spend in mathematics classes?

---

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ1-24A,B	Austria	X	Question not asked or data not internationally comparable.
SCQ1-24B	England	D	Computed from modified question: days/year divided by 5.
SCQ1-24A,B	Hungary	X	Question not asked or data not internationally comparable.
SCQ1-24A,B	Japan	X	Question not asked or data not internationally comparable.
SCQ1-24A,B	Kuwait	X	Question not asked or data not internationally comparable.
SCQ1-24A,B	Netherlands	X	Question not asked or data not internationally comparable.
SCQ1-24A,B	Norway	D	Data obtained from ministry.
SCQ1-24A,B	Singapore	D	Data obtained from ministry.

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**SCQ1-24C-F****QUESTION:**

If no, then...

C: How many different courses in mathematics are available?

D: What percentage of upper grade students take...

- 1) the most advanced mathematics course of study;
- 2) the least advanced mathematics course of study.

E: What is the total number of instructional minutes per week for those students who take...

- 1) the most advanced mathematics course of study;
- 2) the least advanced mathematics course of study.

F: What is the total number of instructional weeks per year for those students who take...

- 1) the most advanced mathematics course of study;
- 2) the least advanced mathematics course of study.

---

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ1-24C-F2	Austria	X	Question not asked or data not internationally comparable.
SCQ1-24C-F2	England	X	Question not asked or data not internationally comparable.
SCQ1-24C-F2	Hong Kong	X	Question not asked or data not internationally comparable.
SCQ1-24C-F2	Hungary	X	Question not asked or data not internationally comparable.
SCQ1-24C-F2	Japan	X	Question not asked or data not internationally comparable.
SCQ1-24C-F2	Kuwait	X	Question not asked or data not internationally comparable.
SCQ1-24C-F2	Latvia	X	Not applicable; all students follow the same course of study.
SCQ1-24C-F2	Netherlands	X	Question not asked or data not internationally comparable.
SCQ1-24C-F2	Norway	X	Question not asked or data not internationally comparable.
SCQ1-24C-F2	Singapore	X	Question not asked or data not internationally comparable.

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**SCQ1-25****QUESTION:**

If all students do not follow the same course of study in mathematics, how important are each of the following factors in deciding which courses of study in mathematics an upper grade student takes?

- A: academic performance;
- B: performance on a standardized test;
- C: performance on an entrance examination;
- D: performance on an oral examination;
- E: teacher recommendations;
- F: parent wishes;
- G: the student's own wishes;
- H: curricular requirements.

---

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ1-25D	Australia	X	Question not asked or data not internationally comparable.
SCQ1-25A-H	Austria	X	Question not asked or data not internationally comparable.
SCQ1-25A-H	England	X	Question not asked or data not internationally comparable.
SCQ1-25A-H	Hong Kong	X	Not applicable; all students follow the same course of study.
SCQ1-25A-H	Hungary	X	Question not asked or data not internationally comparable.
SCQ1-25A-H	Japan	X	Question not asked or data not internationally comparable.
SCQ1-25A-H	Kuwait	X	Question not asked or data not internationally comparable.
SCQ1-25A-H	Norway	X	Question not asked or data not internationally comparable.
SCQ1-25A-H	Singapore	X	Question not asked or data not internationally comparable.

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**SCQ1-26****QUESTION:**

Do all students in upper grade follow the same course of study in science?  
(This is a filter for 26A,B; 26C-F; and 27A-H.)

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ1-26	Austria	X	Question not asked or data not internationally comparable.
SCQ1-26	England	X	Filter Not Administered.
SCQ1-26	Hungary	X	Question not asked or data not internationally comparable.
SCQ1-26	Japan	X	Question not asked or data not internationally comparable.
SCQ1-26	Kuwait	X	Question not asked or data not internationally comparable.
SCQ1-26	Norway	D	Data obtained from ministry.
SCQ1-26	Singapore	D	Data obtained from ministry.

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**SCQ1-26A,B****QUESTION:**

If yes, then...

A: How many instructional minutes per week are students in the upper grade required to spend in science classes?

B: How many instructional weeks per year are students in the upper grade required to spend in science classes?

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
SCQ1-26A,B	Austria	X	Question not asked or data not internationally comparable.
SCQ1-26B	England	D	Computed from modified question: days/year divided by 5.
SCQ1-26A,B	Hungary	X	Question not asked or data not internationally comparable.
SCQ1-26A,B	Japan	X	Question not asked or data not internationally comparable.
SCQ1-26A,B	Kuwait	X	Question not asked or data not internationally comparable.
SCQ1-26A,B	Netherlands	X	Question not asked or data not internationally comparable.
SCQ1-26A,B	Norway	X	Question not asked or data not internationally comparable.
SCQ1-26A,B	Singapore	D	Data obtained from ministry.

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**SCQ1-26C-F****QUESTION:**

If no, then...

C: How many different courses in science are available?

D: What percentage of upper grade students take...

- 1) the most advanced science course of study;
- 2) the least advanced science course of study;

:

F: What is the total number of instructional weeks per year for those students who take...

- 1) the most advanced science course of study;
  - 2) the least advanced science course of study.
- 

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SCQ1-26C-F2	Austria	X	Question not asked or data not internationally comparable.
SCQ1-26C-F2	Czech Republic	X	Not applicable; all students follow the same course of study.
SCQ1-26C-F2	England	X	Question not asked or data not internationally comparable.
SCQ1-26C-F2	Hong Kong	X	Question not asked or data not internationally comparable.
SCQ1-26C-F2	Hungary	X	Question not asked or data not internationally comparable.
SCQ1-26C-F2	Japan	X	Question not asked or data not internationally comparable.
SCQ1-26C-F2	Kuwait	X	Question not asked or data not internationally comparable.
SCQ1-26C-F2	Latvia	X	Not applicable; all students follow the same course of study.
SCQ1-26C-F2	Netherlands	X	Question not asked or data not internationally comparable.
SCQ1-26C-F2	Norway	X	Question not asked or data not internationally comparable.
SCQ1-26C-F2	Singapore	X	Question not asked or data not internationally comparable.

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**SCQ1-27****QUESTION:**

If all students do not follow the same course of study in science, how important are each of the following factors in deciding which courses of study in science an upper grade student takes?

- A: academic performance;
- B: performance on a standardized test;
- C: performance on an entrance examination;
- D: performance on an oral examination;
- E: teacher recommendations;
- F: parent wishes;
- G: the student's own wishes;
- H: curricular requirements.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ1-27D	Australia	X	Question not asked or data not internationally comparable.
SCQ1-27A-H	Austria	X	Question not asked or data not internationally comparable.
SCQ1-27A-H	England	X	Question not asked or data not internationally comparable.
SCQ1-27A-H	Hong Kong	X	Not applicable; all students follow the same course of study.
SCQ1-27A-H	Hungary	X	Question not asked or data not internationally comparable.
SCQ1-27A-H	Japan	X	Question not asked or data not internationally comparable.
SCQ1-27A-H	Kuwait	X	Question not asked or data not internationally comparable.
SCQ1-27A-H	Norway	X	Question not asked or data not internationally comparable.
SCQ1-27A-H	Singapore	X	Question not asked or data not internationally comparable.

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**SCQ1-28****QUESTION:**

Approximately what percentage of the students in your school...

- A: come from disadvantaged economic backgrounds;
- B: come from homes where neither parent received more than primary education;
- C: come from one-parent families;
- D: attended preschool;
- E: have a first language different from the language taught in the school;
- F: have learning problems;
- G: have health problems;
- H: have nutrition problems.

---

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ1-28A-H	Austria	X	Question not asked or data not internationally comparable.
SCQ1-28A	England	D	Computed based on proxy question related to eligibility for free school meals.
SCQ1-28B-D	England	X	Question not asked or data not internationally comparable.
SCQ1-28E	England	D	Computed based on proxy question related to English as a Second Language (ESL) support.
SCQ1-28F-H	England	X	Question not asked or data not internationally comparable.
SCQ1-28A-H	Hong Kong	X	Question not asked or data not internationally comparable.
SCQ1-28A-H	Japan	X	Question not asked or data not internationally comparable.
SCQ1-28A-H	Netherlands	X	Question not asked or data not internationally comparable.
SCQ1-28A-H	Norway	X	Question not asked or data not internationally comparable.
SCQ1-28A-H	Scotland	X	Question not asked or data not internationally comparable.
SCQ1-28A-H	Singapore	X	Question not asked or data not internationally comparable.
SCQ1-28A-H	United States	X	Question not asked or data not internationally comparable.

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**SCQ1-29****QUESTION:**

On what basis are pupils admitted to your school?

- A: residence in a particular area;
- B: student's academic performance;
- C: interview with student;
- :
- M: other.

---

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ1-29G-H	Australia	X	Question not asked or data not internationally comparable.
SCQ1-29J-L	Australia	X	Question not asked or data not internationally comparable.
SCQ1-29A-M	Austria	X	Question not asked or data not internationally comparable.
SCQ1-29A-M	Canada	D	Not administered in English version; includes French schools only.
SCQ1-29A-M	Hong Kong	X	Question not asked or data not internationally comparable.
SCQ1-29A-M	Iran	X	Question not asked or data not internationally comparable.
SCQ1-29A-M	Japan	X	Question not asked or data not internationally comparable.
SCQ1-29A-M	Netherlands	X	Question not asked or data not internationally comparable.
SCQ1-29A-M	Norway	X	Question not asked or data not internationally comparable.
SCQ1-29A-M	Scotland	X	Question not asked or data not internationally comparable.
SCQ1-29A-M	Singapore	X	Question not asked or data not internationally comparable.

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# Section 4

Population 2  
Student Background Questionnaire

<b>SQ2-1</b>	<b>QUESTION</b>
	On what date were you born? 1/1: Day; 1/2: Month; 1/3: Year.

<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2-1/1	Australia	X	Question not administered or data not internationally comparable.
SQ2-1/1	Canada	X	Question not administered or data not internationally comparable.
SQ2-1/1	Germany	X	Question not administered or data not internationally comparable.
SQ2-1/1	Iran	X	Question not administered or data not internationally comparable.
SQ2-1/1	Norway	X	Question not administered or data not internationally comparable.
SQ2-1/1-1/3	Singapore	D	Data obtained from ministry.

<b>SQ2-2</b>	<b>QUESTION</b>
	Are you a girl or a boy?

<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2-2	Singapore	D	Data obtained from ministry.

<b>SQ2-3</b>	<b>QUESTION</b>
	A: Were you born in <country>? B: If you were not born in <country>, how old were you when you came to <country>? (Format: Open-ended; numerical integer, valid values less than or equal to the age of student (BSDAGE).)

<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2-3B	Australia	D	Used categorical format: '< 1', '1','2','3',..., '8', '13 or more'.
SQ2-3B	Canada	D	Used categorical format: '< 1', '1','2','3',..., '8', '14 or more' for English version. Error in French version: '< 1', '1','2',..., '9 or more'. Recoded French to missing.
SQ2-3A-B	France	X	Question not administered or data not internationally comparable.
SQ2-3A-B	Japan	X	Question not administered or data not internationally comparable.
SQ2-3B	Netherlands	D	Used categorical format: '1','2','3',..., '17'.

<b>SQ2-4</b>	<b>QUESTION</b>
	How often do you speak <language of test> at home?

<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2-4	Hong Kong	D	Asked about both English and Chinese.
SQ2-4	Japan	X	Question not administered or data not internationally comparable.

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**SQ2-5****QUESTION**

During the week, how much time before or after school do you spend...

- A: taking extra lessons in mathematics?
- B: taking extra lessons in science?
- C: participating in science or mathematics clubs?
- D: working at a paid job?

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ2-5D	France	X	Question not administered or data not internationally comparable.

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**SQ2-6****QUESTION**

On a normal school day, how much time do you spend before or after school doing each of these things?

- A: watching television and videos;
- B: playing computer games;
- C: playing or talking with friends;
- :
- G: studying mathematics or doing mathematics homework after school;
- H: studying science or doing science homework after school;
- I: studying or doing homework in school subjects other than mathematics & science.

---

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ2-6G-I	England	X	Question not administered or data not internationally comparable.
SQ2-6A-I	Singapore	D	Open-ended format (hours on normal school day) coded to international categories during data entry.

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**SQ2-7****QUESTION**

Do each of these people live at home with you most or all the time?

- A: mother;
- B: father;
- C: one or more brothers;
- D: one or more sisters;
- E: stepmother;
- F: stepfather;
- G: one or more grandparents;
- H: another relative or relatives;
- I: another person or persons (not relatives).

---

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ2-7A-I	Japan	X	Question not administered or data not internationally comparable.
SQ2-7E-F	Singapore	X	Question not administered or data not internationally comparable.
SQ2-7I	Slovak Republi	X	Question not administered or data not internationally comparable.

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**SQ2-8****QUESTION**

Altogether, how many people live in your home?  
(Format: Open-ended; numerical integer.)

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2-8	Australia	D	Used categorical format: '2','3',..., '9', '10 or more'.
SQ2-8	Canada	D	Used categorical format: '2','3',..., '9', '10 or more'.
SQ2-8	Japan	X	Question not administered or data not internationally comparable.
SQ2-8	Netherlands	D	Used categorical format: '2', '3', ..., '8 or more'.

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SQ2-9

**QUESTION**

9/1: How far in school did your mother go?  
 9/2: How far in school did your father go?  
 9/3: How far do you expect to go in school?

International response options:

- 1 = finished primary school;
- 2 = finished some secondary school;
- 3 = finished secondary school;
- 4 = some vocational/technical education after secondary school;
- 5 = some university;
- 6 = finished university;
- 7 = I don't know.

(Some countries omitted or modified options to be consistent with their own national systems.)

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2-9	Austria	D	Modified: recoded to international options. Options 1, 4, 5 not included. Option 2 = Compulsory (grades 1-9); Option 3 combines 4 secondary tracks (apprenticeship, medium vocational, higher academic, higher vocational); Option 6 = University (master's).
SQ2-9	Belgium(FI)	D	Option 4 not included. Option 5 = Higher Education not part of university.
SQ2-9	Belgium(Fr)	D	Option 4 not included. Option 5 = Higher Education not part of university.
SQ2-9	Canada	D	Option 4 = Some University or College; Option 5 = Finished University or College
SQ2-9	Cyprus	D	Modified: recoded to international options. Option 5 Not Included; Option 4 = Finished College (not equivalent to university); Option 6 combines Finished University and Post-Graduate Studies.
SQ2-9	Czech Republic	D	Option 2 = Finished Vocational Training or Secondary without Maturita; Option 3 = Finished Vocational Training or Secondary with Maturita.
SQ2-9	Denmark	D	Modified: recoded to international options. Options 1,4 not included. Option 2 combines two lower-secondary levels (Basic School, 9 or 10 grades); Option 3 combines two upper-secondary options: Gymnasium (hf, htx, hhx) and vocational (EUD). Option 5 = medium-cycle higher education; Option 6 = long university program.
SQ2-9	England	X	Question not administered or data not internationally comparable.
SQ2-9	France	D	Modified; recoded to international options. Option 1 = No school or primary; Option 2 = Lower secondary (college) or certificate of vocational aptitude (CAP). Option 3 combines two upper-secondary options: diploma of vocational studies (BEP-11 grades) and baccalaureate (BAC general, technical or professional - 12 or 13 grades); Option 4 not included; Option 5 = 2-3 years study after BAC (BTS, DUT, License); Option 6 = 4 years study after BAC (master's).
SQ2-9	Germany	D	Modified; recoded to international options. Options 1,5 not included; Option 2 combines two lower or inter. secondary levels (gr. 9-10); Option 3 combines two upper secondary tracks (apprenticeship or gymnasium); Option 4 = Tertiary non-university; Option 6 = University or Tech. University.
SQ2-9	Greece	D	Option 4 = graduated from technical institute (3 years).
SQ2-9	Hong Kong	D	Option 5 not included.
SQ2-9	Hungary	D	Modified; recoded to international options. Options 4, 5 and 7 not included. Option 1 = Some general school; Option 2 = Finished general school (grade 8); Option 3 combines two upper-secondary tracks (apprenticeship or academic); Option 6 = University or College.
SQ2-9	Japan	X	Question not administered or data not internationally comparable.
SQ2-9	New Zealand	D	Option 6 = University or Teachers College.
SQ2-9	Norway	D	Modified; recoded to international options. Option 1 not included; Option 2 combines two levels: Finished Basic School (grades 1-9) or some upper secondary.
SQ2-9	Scotland	D	Option 1 not included.
SQ2-9/1,9/2	Singapore	D	Parents' education not asked of students; data obtained from ministry. Option 4 = Pre-University or Polytechnic.
SQ2-9/3	Singapore	D	Modified: Options 2,5 not included; Option 4 = Pre-University or Polytechnic.

SQ2-9	Sweden	D	Modified; recoded to international options. Options 1,4 not included; Option 2 combines Compulsory School (grades 1-9) and starting upper secondary. Option 3 combines two upper-secondary tracks (academic or vocational); Option 5 = <3 years university studies; Option 6 = 3 years university or more.
SQ2-9	Switzerland	D	Modified; recoded to international options. Options 1, 5 Not Included; Option 2 = Finished primary or lower secondary; Option 3 combines two upper-secondary tracks (academic and vocational) and teacher training; Option 4 = Applied Science University.
SQ2-9	Thailand	D	Modified; recoded to international options. Option 4 Not Included; Option 3 combines two upper-secondary tracks (academic or vocational); Option 5 = Finished Higher Certificate Level (2 years); Option 6 = Finished Tertiary (4 years).
SQ2-9	United States	D	Option 5 = Some Community College, College, or University Courses; Option 6 = Completed Bachelor's Degree at College or University.

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**SQ2-10 QUESTION**

A: Was your mother born in <country>?  
 B: Was your father born in <country>?

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ2-10A-B	France	X	Question not administered or data not internationally comparable.
SQ2-10A-B	Japan	X	Question not administered or data not internationally comparable.

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**SQ2-11 QUESTION**

About how many books are there in your home?

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ2-11	Japan	X	Question not administered or data not internationally comparable.

**SQ2-12****QUESTION**

Do you have any of these items at your home ?

A: calculator

B: computer

C: study desk/table for your use

D: dictionary

E: <country specific>

:

P: <country specific>

(Parts E- P include nationally - defined possessions documented for each country.)

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2-12E	Australia	D	Bookshelves and books
SQ2-12F	Australia	D	Own wardrobe
SQ2-12G	Australia	D	Dishwashing machine
SQ2-12H	Australia	D	CD or video player in own room
SQ2-12I-P	Australia	X	Question not administered or data not internationally comparable.
SQ2-12E	Austria	D	Television
SQ2-12F	Austria	D	Video recorder
SQ2-12G	Austria	D	Video camera
SQ2-12H	Austria	D	CD player
SQ2-12I	Austria	D	CDs of classical music
SQ2-12J	Austria	D	Computer or video game
SQ2-12K	Austria	D	More than 1 telephone line
SQ2-12L	Austria	D	Microscope
SQ2-12M	Austria	D	Telescope
SQ2-12N	Austria	D	FAX or modem
SQ2-12O	Austria	D	Lawn mower
SQ2-12P	Austria	D	Cable or satellite dish
SQ2-12E	Belgium(FI)	D	Video recorder
SQ2-12F	Belgium(FI)	D	CD player
SQ2-12G	Belgium(FI)	D	2-car garage
SQ2-12H	Belgium(FI)	D	bathroom
SQ2-12I	Belgium(FI)	D	microwave oven
SQ2-12J	Belgium(FI)	D	cordless phone
SQ2-12K	Belgium(FI)	D	video camera
SQ2-12L	Belgium(FI)	D	separate shower
SQ2-12M	Belgium(FI)	D	garden
SQ2-12N	Belgium(FI)	D	central heating
SQ2-12O	Belgium(FI)	D	guest room
SQ2-12P	Belgium(FI)	D	swimming pool
SQ2-12E	Belgium(Fr)	D	2 cars
SQ2-12F	Belgium(Fr)	D	central heating
SQ2-12G	Belgium(Fr)	D	dishwasher
SQ2-12H	Belgium(Fr)	D	microwave oven
SQ2-12I	Belgium(Fr)	D	stereo
SQ2-12J	Belgium(Fr)	D	television
SQ2-12K	Belgium(Fr)	D	portable phone
SQ2-12L	Belgium(Fr)	D	magnetoscope
SQ2-12M	Belgium(Fr)	D	dryer
SQ2-12N	Belgium(Fr)	D	own room
SQ2-12O	Belgium(Fr)	D	own books
SQ2-12P	Belgium(Fr)	D	portable CD player

SQ2-12E	Canada	D	Own bookshelves and books
SQ2-12F	Canada	D	CD or video player in own room
SQ2-12G	Canada	D	Own television
SQ2-12H	Canada	D	Own telephone
SQ2-12I	Canada	D	Computer with modem
SQ2-12J	Canada	D	Encyclopedia
SQ2-12K-P	Canada	X	Question not administered or data not internationally comparable.
SQ2-12E	Colombia	D	Television
SQ2-12F	Colombia	D	Video recorder
SQ2-12G	Colombia	D	Stereo
SQ2-12H	Colombia	D	Electronic games
SQ2-12I	Colombia	D	Cable television or satellite dish
SQ2-12J	Colombia	D	Bicycle
SQ2-12K	Colombia	D	Football
SQ2-12L-P	Colombia	X	Question not administered or data not internationally comparable.
SQ2-12E	Cyprus	D	Bicycle
SQ2-12F	Cyprus	D	Cassette
SQ2-12G	Cyprus	D	Video recorder
SQ2-12H	Cyprus	D	Dishwasher
SQ2-12I	Cyprus	D	Stereo
SQ2-12J	Cyprus	D	Two cars or more
SQ2-12K	Cyprus	D	Washing machine
SQ2-12L	Cyprus	D	Air conditioner
SQ2-12M	Cyprus	D	Central heating
SQ2-12N	Cyprus	D	4 or more bedrooms
SQ2-12O	Cyprus	D	Recreational boat
SQ2-12P	Cyprus	D	Satellite antenna
SQ2-12E	Czech Republic	D	Car
SQ2-12F	Czech Republic	D	2 cars or more
SQ2-12G	Czech Republic	D	Washing machine
SQ2-12H	Czech Republic	D	Dishwasher
SQ2-12I	Czech Republic	D	Microwave oven
SQ2-12J	Czech Republic	D	Stereo
SQ2-12K	Czech Republic	D	Color television
SQ2-12L	Czech Republic	D	Video recorder
SQ2-12M	Czech Republic	D	CD player
SQ2-12N	Czech Republic	D	Video camera
SQ2-12O	Czech Republic	D	Family house
SQ2-12P	Czech Republic	D	Weekend house
SQ2-12E	Denmark	D	House with garden
SQ2-12F	Denmark	D	Summer house
SQ2-12G	Denmark	D	CD player
SQ2-12H	Denmark	D	Video recorder
SQ2-12I	Denmark	D	Dishwasher
SQ2-12J	Denmark	D	Television
SQ2-12K	Denmark	D	Microwave oven
SQ2-12L	Denmark	D	Video camera
SQ2-12M	Denmark	D	Car
SQ2-12N	Denmark	D	Telephone
SQ2-12O	Denmark	D	Swimming pool
SQ2-12P	Denmark	X	Question not administered or data not internationally comparable.
SQ2-12E	England	D	Encyclopedia
SQ2-12F	England	D	Car

SQ2-12G	England	D	Dryer
SQ2-12H	England	D	Dishwasher
SQ2-12I	England	D	Microwave oven
SQ2-12J	England	D	Video recorder
SQ2-12K-P	England	X	Question not administered or data not internationally comparable.
SQ2-12E-P	France	X	Question not administered or data not internationally comparable.
SQ2-12E	Germany	D	Television
SQ2-12F	Germany	D	Video recorder
SQ2-12G	Germany	D	Video camera
SQ2-12H	Germany	D	CD player
SQ2-12I	Germany	D	CDs or LPs of classical music
SQ2-12J	Germany	D	Computer or video games
SQ2-12K	Germany	D	2 or more televisions
SQ2-12L	Germany	D	Microscope
SQ2-12M	Germany	D	Telescope
SQ2-12N	Germany	D	Weekly newspaper
SQ2-12O	Germany	D	Lawn mower
SQ2-12P	Germany	D	Own room
SQ2-12E	Greece	D	Bicycle
SQ2-12F	Greece	D	Cassette recorder
SQ2-12G	Greece	D	Video recorder
SQ2-12H	Greece	D	Dishwasher
SQ2-12I	Greece	D	Stereo
SQ2-12J	Greece	D	Car
SQ2-12K	Greece	D	Washing machine
SQ2-12L	Greece	D	Air conditioner
SQ2-12M	Greece	D	Recreational boat
SQ2-12N	Greece	D	Library
SQ2-12O	Greece	D	Central heating
SQ2-12P	Greece	D	4 or more bedrooms
SQ2-12E	Hong Kong	D	Electronic dictionary
SQ2-12F	Hong Kong	D	Refrigerator
SQ2-12G	Hong Kong	D	Television
SQ2-12H	Hong Kong	D	Washing machine
SQ2-12I	Hong Kong	D	Dryer
SQ2-12J	Hong Kong	D	Air conditioner
SQ2-12K	Hong Kong	D	CD player
SQ2-12L	Hong Kong	D	Karaoke
SQ2-12M	Hong Kong	D	Car
SQ2-12N	Hong Kong	D	Own room
SQ2-12O	Hong Kong	D	2 or more bathrooms
SQ2-12P	Hong Kong	D	Servant's room
SQ2-12E	Hungary	D	Car
SQ2-12F	Hungary	D	Telephone
SQ2-12G	Hungary	D	Video recorder
SQ2-12H	Hungary	D	Own room
SQ2-12I	Hungary	D	Own computer
SQ2-12J	Hungary	D	Own corner to learn in
SQ2-12K	Hungary	D	Own books
SQ2-12L	Hungary	D	Own television
SQ2-12M-P	Hungary	X	Question not administered or data not internationally comparable.
SQ2-12E	Iceland	D	Plant field guide
SQ2-12F	Iceland	D	Bird field guide

SQ2-12G	Iceland	D	Math computer program
SQ2-12H	Iceland	D	Science computer program
SQ2-12I	Iceland	D	Math game
SQ2-12J	Iceland	D	Measuring tape
SQ2-12K	Iceland	D	TV satellite dish
SQ2-12L	Iceland	D	Cable descrambler
SQ2-12M	Iceland	D	Dishwasher
SQ2-12N	Iceland	D	Microwave oven
SQ2-12O	Iceland	D	Clothes dryer
SQ2-12P	Iceland	D	Video camera
SQ2-12E-P	Iran	X	Question not administered or data not internationally comparable.
SQ2-12E	Ireland	D	Telephone
SQ2-12F	Ireland	D	Encyclopedia
SQ2-12G	Ireland	D	Stereo
SQ2-12H	Ireland	D	Video
SQ2-12I	Ireland	D	CD player
SQ2-12J	Ireland	D	Television
SQ2-12K	Ireland	D	Microwave oven
SQ2-12L	Ireland	D	Dishwasher
SQ2-12M	Ireland	D	Car
SQ2-12N	Ireland	D	Dryer
SQ2-12O	Ireland	D	Washing machine
SQ2-12P	Ireland	D	Second bathroom
SQ2-12E	Israel	D	Encyclopedia
SQ2-12F	Israel	D	Video recorder
SQ2-12G	Israel	D	Dryer
SQ2-12H	Israel	D	Dishwasher
SQ2-12I	Israel	D	2 televisions or more
SQ2-12J	Israel	D	Microwave oven
SQ2-12K	Israel	D	Cordless phone
SQ2-12L	Israel	D	CD player
SQ2-12M	Israel	D	Air conditioner
SQ2-12N	Israel	D	Vacuum cleaner
SQ2-12O	Israel	D	Camera
SQ2-12P	Israel	D	Video camera
SQ2-12A-P	Japan	X	Question not administered or data not internationally comparable.
SQ2-12E	Korea	D	Study room
SQ2-12F	Korea	D	Piano
SQ2-12G	Korea	D	Camera
SQ2-12H	Korea	D	Television
SQ2-12I	Korea	D	Radio
SQ2-12J	Korea	D	Audio system
SQ2-12K	Korea	D	Video recorder
SQ2-12L	Korea	D	Video camera
SQ2-12M-P	Korea	X	Question not administered or data not internationally comparable.
SQ2-12E-P	Kuwait	X	Question not administered or data not internationally comparable.
SQ2-12E	Latvia	D	Encyclopedia
SQ2-12F	Latvia	D	Atlas
SQ2-12G	Latvia	D	Daily newspaper
SQ2-12H	Latvia	D	Monthly journal
SQ2-12I	Latvia	D	Video recorder
SQ2-12J	Latvia	D	Audio recorder
SQ2-12K	Latvia	D	Record player

SQ2-12L	Latvia	D	Electronic gameboard
SQ2-12M	Latvia	D	Walker
SQ2-12N	Latvia	D	Bicycle
SQ2-12O	Latvia	D	Coffee maker
SQ2-12P	Latvia	D	Own room
SQ2-12E	Lithuania	D	Encyclopedia
SQ2-12F	Lithuania	D	Car
SQ2-12G	Lithuania	D	Garage
SQ2-12H	Lithuania	D	2 TV sets
SQ2-12I	Lithuania	D	Video player
SQ2-12J	Lithuania	D	Audio player
SQ2-12K	Lithuania	D	Piano
SQ2-12L	Lithuania	D	Refrigerator
SQ2-12M	Lithuania	D	Phone
SQ2-12N	Lithuania	D	Garden
SQ2-12O	Lithuania	D	Own house
SQ2-12P	Lithuania	D	Pets
SQ2-12E	Netherlands	D	CD player in own room
SQ2-12F	Netherlands	D	Video recorder in own room
SQ2-12G	Netherlands	D	Encyclopedia
SQ2-12H	Netherlands	D	Daily newspaper
SQ2-12I	Netherlands	D	Weekly magazines
SQ2-12J	Netherlands	D	Atlas or globe
SQ2-12K	Netherlands	D	Microscope
SQ2-12L	Netherlands	D	Binoculars/telescope
SQ2-12M-P	Netherlands	X	Question not administered or data not internationally comparable.
SQ2-12E	New Zealand	D	Television
SQ2-12F	New Zealand	D	Musical instruments
SQ2-12G	New Zealand	D	CD player
SQ2-12H	New Zealand	D	Video camera
SQ2-12I	New Zealand	D	Video games
SQ2-12J	New Zealand	D	Microwave
SQ2-12K	New Zealand	D	Clothes dryer
SQ2-12L	New Zealand	D	Dishwasher
SQ2-12M	New Zealand	D	2 bathrooms
SQ2-12N	New Zealand	D	Second car/motor bike
SQ2-12O	New Zealand	D	Encyclopedia
SQ2-12P	New Zealand	D	Mobile or cellular phone
SQ2-12E	Norway	D	Encyclopedia
SQ2-12F	Norway	D	Atlas
SQ2-12G	Norway	D	Globe
SQ2-12H	Norway	D	Binoculars
SQ2-12I	Norway	D	Aquarium
SQ2-12J	Norway	D	Piano
SQ2-12K	Norway	D	Cabin or boat
SQ2-12L	Norway	D	Video recorder
SQ2-12M	Norway	D	Video camera
SQ2-12N	Norway	D	More than one TV
SQ2-12O	Norway	D	More than one bathroom
SQ2-12P	Norway	D	More than one car
SQ2-12E	Philippines	D	Encyclopedia
SQ2-12F	Philippines	D	Tape Recorder
SQ2-12G	Philippines	D	Piano or organ



SQ2-12H	Philippines	D	Washing machine
SQ2-12I	Philippines	D	Oven
SQ2-12J	Philippines	D	Video recorder
SQ2-12K	Philippines	D	Video camera
SQ2-12L	Philippines	D	Camera
SQ2-12M	Philippines	D	Telephone
SQ2-12N	Philippines	D	Typewriter
SQ2-12O	Philippines	D	Motor bike
SQ2-12P	Philippines	D	Jeep or car
SQ2-12E	Portugal	D	Encyclopedia
SQ2-12F	Portugal	D	Radio
SQ2-12G	Portugal	D	Tape recorder
SQ2-12H	Portugal	D	Television
SQ2-12I	Portugal	D	Video
SQ2-12J	Portugal	D	Computer games
SQ2-12K	Portugal	D	Checkers/chess
SQ2-12L	Portugal	D	Video cassettes
SQ2-12M	Portugal	D	Camera
SQ2-12N	Portugal	D	Movie camera
SQ2-12O-P	Portugal	X	Question not administered or data not internationally comparable.
SQ2-12E	Romania	D	Atlas
SQ2-12F	Romania	D	Lab tools
SQ2-12G	Romania	D	Aquarium or pets
SQ2-12H	Romania	D	Ornamental plants
SQ2-12I	Romania	D	Television
SQ2-12J	Romania	D	Radio, tape or video recorder
SQ2-12K	Romania	D	Video camera
SQ2-12L	Romania	D	Car
SQ2-12M	Romania	D	Musical instruments
SQ2-12N	Romania	D	Gas stove
SQ2-12O	Romania	D	Refrigerator
SQ2-12P	Romania	D	Tool box
SQ2-12E	Russian Fed.	D	Video recorder
SQ2-12F	Russian Fed.	D	2 color TV sets
SQ2-12G	Russian Fed.	D	Car
SQ2-12H	Russian Fed.	D	2 Cars
SQ2-12I	Russian Fed.	D	Own room
SQ2-12J	Russian Fed.	D	2-3 room apartment
SQ2-12K	Russian Fed.	D	4 or more room apartment
SQ2-12L	Russian Fed.	D	Large private house
SQ2-12M	Russian Fed.	D	Summer house with garden
SQ2-12N	Russian Fed.	D	Large summer house with garden
SQ2-12O-P	Russian Fed.	X	Question not administered or data not internationally comparable.
SQ2-12E-P	Scotland	X	Question not administered or data not internationally comparable.
SQ2-12E	Singapore	D	Microwave
SQ2-12F	Singapore	D	Car
SQ2-12G	Singapore	D	Air conditioner
SQ2-12H	Singapore	D	Piano/organ or violin
SQ2-12I	Singapore	D	Domestic help
SQ2-12J-P	Singapore	X	Question not administered or data not internationally comparable.
SQ2-12E	Slovak Republi	D	Television
SQ2-12F	Slovak Republi	D	Video
SQ2-12G	Slovak Republi	D	Car

SQ2-12H	Slovak Republi	D	Own room
SQ2-12I	Slovak Republi	D	Pictures
SQ2-12J	Slovak Republi	D	Musical instrument
SQ2-12K	Slovak Republi	D	Sewer
SQ2-12L	Slovak Republi	D	Microwave oven
SQ2-12M	Slovak Republi	D	CD player
SQ2-12N	Slovak Republi	D	Bike
SQ2-12O	Slovak Republi	D	Skis
SQ2-12P	Slovak Republi	D	Encyclopedia
SQ2-12E	Slovenia	D	Own room
SQ2-12F	Slovenia	D	Daily newspaper
SQ2-12G	Slovenia	D	Garden
SQ2-12H	Slovenia	D	Video recorder
SQ2-12I	Slovenia	D	Pets
SQ2-12J	Slovenia	D	Musical instrument
SQ2-12K	Slovenia	D	Atlas
SQ2-12L	Slovenia	D	Own bicycle
SQ2-12M	Slovenia	D	Cable or satellite TV
SQ2-12N	Slovenia	D	More than one car
SQ2-12O	Slovenia	D	Own skis
SQ2-12P	Slovenia	D	Dictionary of Slovenian language
SQ2-12E	South Africa	D	Electricity
SQ2-12F	South Africa	D	Running tap water
SQ2-12G	South Africa	D	Warm water
SQ2-12H	South Africa	D	Radio
SQ2-12I	South Africa	D	Television
SQ2-12J	South Africa	D	Video recorder
SQ2-12K	South Africa	D	Tape recorder
SQ2-12L	South Africa	D	CD player
SQ2-12M	South Africa	D	Own bedroom
SQ2-12N	South Africa	D	Own bicycle
SQ2-12O	South Africa	D	Water-flushed toilets
SQ2-12P	South Africa	D	Car available
SQ2-12E	Spain	D	Encyclopedia
SQ2-12F	Spain	D	Mathematics books
SQ2-12G	Spain	D	Science books
SQ2-12H	Spain	D	Laboratory instruments
SQ2-12I	Spain	D	Educational videos
SQ2-12J	Spain	D	Educational computer programs
SQ2-12K	Spain	D	A place where you can study by yourself
SQ2-12L-P	Spain	X	Question not administered or data not internationally comparable.
SQ2-12E	Sweden	D	Row house or house with garden
SQ2-12F	Sweden	D	Sauna
SQ2-12G	Sweden	D	Dishwasher
SQ2-12H	Sweden	D	Microwave oven
SQ2-12I	Sweden	D	Video
SQ2-12J	Sweden	D	CD player
SQ2-12K	Sweden	D	Video camera
SQ2-12L	Sweden	D	Cordless telephone
SQ2-12M	Sweden	D	Piano
SQ2-12N	Sweden	D	2 or more cars
SQ2-12O	Sweden	D	Access to a summer house
SQ2-12P	Sweden	D	Sail or motor boat

SQ2-12E	Switzerland	D	Television
SQ2-12F	Switzerland	D	Video recorder
SQ2-12G	Switzerland	D	Video camera
SQ2-12H	Switzerland	D	CD player
SQ2-12I	Switzerland	D	CDs or albums of classical music
SQ2-12J	Switzerland	D	Computer or video games
SQ2-12K	Switzerland	D	2 or more telephone lines
SQ2-12L	Switzerland	D	Microscope
SQ2-12M	Switzerland	D	Telescope
SQ2-12N	Switzerland	D	Weekly journal
SQ2-12O	Switzerland	D	Lawn mower
SQ2-12P	Switzerland	D	Own room
SQ2-12E	Thailand	D	Motorcycle
SQ2-12F	Thailand	D	Car
SQ2-12G	Thailand	D	Television
SQ2-12H	Thailand	D	Satellite receiver
SQ2-12I	Thailand	D	Tape recorder
SQ2-12J	Thailand	D	Radio
SQ2-12K	Thailand	D	Telephone
SQ2-12L	Thailand	D	FAX machine
SQ2-12M	Thailand	D	Gas stove
SQ2-12N	Thailand	D	Microwave oven
SQ2-12O	Thailand	D	Air conditioner
SQ2-12P	Thailand	D	Refrigerator
SQ2-12E	United States	D	Atlas
SQ2-12F	United States	D	Encyclopedia
SQ2-12G	United States	D	Portable CD player
SQ2-12H	United States	D	Recreational vehicle
SQ2-12I	United States	D	Stereo with CD player
SQ2-12J	United States	D	Answering machine
SQ2-12K	United States	D	3 or more cars
SQ2-12L	United States	D	Video camera
SQ2-12M	United States	D	Video game system
SQ2-12N	United States	D	Video recorder
SQ2-12O	United States	D	Walkman
SQ2-12P	United States	D	Laptop or notebook computer

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**SQ2-13****QUESTION**

My mother thinks it is important for me to...

A: do well in science at school;

B: do well in mathematics at school;

C: do well in <language of test> at school;

D: be good at sports;

E: have time to have fun;

F: be placed in <classes> with the high achieving students.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2-13A-F	France	D	Asked what parents think instead of mother.
SQ2-13C	Hong Kong	D	Asked about English.
SQ2-13E	Hungary	D	Translated as 'to be in a good mood'.
SQ2-13A-F	Japan	X	Question not administered or data not internationally comparable.
SQ2-13A-F	Kuwait	D	Modified options: Yes/No instead of Strongly Agree/Agree/Disagree/Strongly Disagree; data included in options 2 and 3.
SQ2-13F	Norway	X	Question not administered or data not internationally comparable.
SQ2-13F	Sweden	D	No class placement based on achievement; translated as 'to be one of the best in the class.'

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**SQ2-14****QUESTION**

In my mathematics class...

A: students often neglect their school work;

B: students are orderly and quiet during lessons;

C: students do exactly as the teacher says.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2-14A-C	Scotland	X	Question not administered or data not internationally comparable.

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**SQ2-15****QUESTION**

Most of my friends think it is important for me to...

A: do well in science at school;

B: do well in mathematics at school;

C: do well in <language of test> at school;

D: have time to have fun;

E: be good at sports;

F: be placed in <classes> with the high achieving students.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2-15C	Hong Kong	D	Asked about English.
SQ2-15D	Hungary	D	Translated as 'to be in a good mood'.
SQ2-15F	Norway	X	Question not administered or data not internationally comparable.
SQ2-15F	Sweden	D	No class placement based on achievement; translated as 'to be one of the best in the class.'

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**SQ2-16****QUESTION**

I think it is important to...  
A: do well in science at school;  
B: do well in mathematics at school;  
C: do well in <language of test> at school;  
D: have time to have fun;  
E: be good at sports;  
F: be placed in <classes> with the high achieving students.

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ2-16C	Hong Kong	D	Asked about English.
SQ2-16D	Hungary	D	Translated as 'to be in a good mood'.
SQ2-16F	Norway	X	Question not administered or data not internationally comparable.
SQ2-16F	Sweden	D	No class placement based on achievement; translated as 'to be one of the best in the class.'

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**SQ2G-17B****QUESTION**

I usually do well in science.

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ2G-17B	Austria	X	SQ2-17 not administered; asked SQ2S form. Data in SQ2S-17b,c,d.
SQ2G-17B	Belgium(Fr)	D	Biology/Physics students responding to SQ2S-29-44 coded as Not Administered.
SQ2G-17B	Sweden	D	Administered to lower grade only; SQ2S-17b,c,d administered to upper grade.

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**SQ2-18****QUESTION**

How often did any of these things happen last month in school?  
A: I skipped a class;  
B: Something of mine was stolen;  
C: I thought another student might hurt me;  
:  
F: Some of my friends were hurt by other students.

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ2-18A-F	England	X	Question not administered or data not internationally comparable.
SQ2-18A-F	France	X	Question not administered or data not internationally comparable.
SQ2-18A-F	Japan	X	Question not administered or data not internationally comparable.
SQ2-18A-F	Scotland	X	Question not administered or data not internationally comparable.

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**SQ2-19****QUESTION**

To do well in mathematics at school you need...  
A: lots of natural ability;  
B: good luck;  
C: lots of hard work studying at home;  
D: to memorize the textbook or notes.

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ2-19A-D	Scotland	X	Question not administered or data not internationally comparable.

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**SQ2-20****QUESTION**

To do well in science at school you need...

- A: lots of natural ability;
  - B: good luck;
  - C: lots of hard work studying at home;
  - D: to memorize the textbook or notes.
- 

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ2-20A-D	Scotland	X	Question not administered or data not internationally comparable.
SQ2-20D	Slovenia	X	Question not administered or data not internationally comparable.

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**SQ2G-21B****QUESTION**

How much do you like science?

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ2G-21B	Austria	X	SQ2-21 not administered; asked SQ2S form. Data in SQ2S-21b,c,d.
SQ2G-21B	Belgium(Fr)	D	Biology/Physics students responding to SQ2S-29-44 coded as Not Administered.
SQ2G-21B	Sweden	D	Administered to lower grade only; SQ2S-21b,c,d administered to upper grade.

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**SQ2-22****QUESTION**

How much do you like using computers in...

- A: mathematics;
  - B: science.
- 

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ2-22A-B	Korea	D	Option 1 not asked (Don't Use Computers).
SQ2-22A-B	Scotland	X	Question not administered or data not internationally comparable.

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**SQ2-23****QUESTION**

What do you think about mathematics?

- A: I enjoy learning mathematics;
  - B: Mathematics is boring;
  - C: Mathematics is an easy subject;
  - D: Mathematics is important to everyone's life;
  - E: I would like a job that involved using mathematics.
- 

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ2-23A-E	Scotland	X	Question not administered or data not internationally comparable.

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**SQ2-25****QUESTION**

How often does this happen in your mathematics lessons?  
A: The teacher shows us how to do mathematics problems.  
B: We copy notes from the board.  
C: We have a quiz or test.  
D: We work from worksheets or textbooks on our own.  
E: We work on mathematics projects.  
:  
N: We discuss our completed homework.

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2-25N	Denmark	X	Question not administered or data not internationally comparable.
SQ2-25C	Hungary	D	Possible interpretation problem; asked about a special type of test
SQ2-25E	Latvia	X	Translation problem.

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**SQ2-26****QUESTION**

When we begin a new topic in mathematics, we begin by...  
A: having the teacher explain rules and definitions;  
B: discussing a practical or story problem related to everyday life;  
C: working together in pairs or small groups on a problem or project;  
:  
F: trying to solve an example related to the new topic.

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2-26A-F	Scotland	X	Question not administered or data not internationally comparable.

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**SQ2-27A****QUESTION**

Listed below are some of the world's environmental problems. How much do you think the application of science can help in addressing these problems?  
AA: air pollution;  
AB: water pollution;  
AC: destruction of forests;  
:  
AF: problem from nuclear power plants.

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2-27AA-AF	England	X	Question not administered or data not internationally comparable.
SQ2-27AA-AF	Scotland	X	Question not administered or data not internationally comparable.

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**SQ2-27B****QUESTION**

Which one of the above environmental problems concerns you most?

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2-27B	England	X	Question not administered or data not internationally comparable.
SQ2-27B	Scotland	X	Question not administered or data not internationally comparable.

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**SQ2G-28****QUESTION**

What do you think about science?

- A: I enjoy learning science;
- B: Science is boring;
- C: Science is an easy subject;
- D: Science is important to everyone's life;
- E: I would like a job that involved using science.

**Questionnaire**

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<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2G-28A-E	Belgium(Fr)	D	Asked both SQ2 and SQ2S questions. Biology/Physics students responding to SQ2S-29-44 coded as Not Administered.
SQ2G-28A-E	Sweden	D	Administered to lower grade only; SQ2S-28-44 administered to upper grade.

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**SQ2G-29****QUESTION**

I need to do well in science...

- A: to get the job I want;
- B: to please my parents;
- C: to get into the school I prefer;
- D: to please myself.

**Questionnaire**

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<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2G-29A-D	Belgium(Fr)	D	Asked both SQ2 and SQ2S questions. Biology/Physics students responding to SQ2S-29-44 coded as Not Administered.
SQ2G-29A-D	Sweden	D	Administered to lower grade only; SQ2S-28-44 administered to upper grade.

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**SQ2G-30****QUESTION**

If you were going to choose a career that uses a science, which science would you prefer to use?

**Questionnaire**

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<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2G-30	Belgium(Fr)	X	Question not administered or data not internationally comparable.
SQ2G-30	Sweden	D	Administered to lower grade only.

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**SQ2G-31****QUESTION**

How often does this happen in your science lessons?

- A: The teacher shows us how to do science problems.
- B: We copy notes from the board.
- C: We have a quiz or test.
- :
- O: The teacher gives a demonstration of an experiment.
- P: We ourselves do an experiment or practical investigation in class.

**Questionnaire**

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<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2G-31A-P	Belgium(Fr)	D	Asked both SQ2 and SQ2S questions. Biology/Physics students responding to SQ2S-29-44 coded as Not Administered.
SQ2G-31A-P	Sweden	D	Administered to lower grade only; SQ2S-28-44 administered to upper grade.
SQ2G-31O	Switzerland	D	Not asked in French version.
SQ2G-31P	Switzerland	D	Not asked in French version.

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**SQ2G-32****QUESTION**

When we begin a new topic in science, we begin by...

- A: having the teacher explain rules and definitions;
- B: discussing a practical or story problem related to everyday life;
- C: working together in small groups on a problem or project;
- :
- F: trying to solve an example related to the new topic.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2G-32A-F	Belgium(Fr)	D	Asked both SQ2 and SQ2S questions. Biology/Physics students responding to SQ2S-29-44 coded as Not Administered.
SQ2G-32A-F	Scotland	X	Question not administered or data not internationally comparable.
SQ2G-32A-F	Sweden	D	Administered to lower grade only; SQ2S-28-44 administered to upper grade.

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**SQ2-33****QUESTION**

Outside of school, how often do you do these activities?

- A: read a book or magazine;
- B: visit a museum or art exhibition;
- C: attend a concert;
- D: go to the theatre;
- E: go to the movies.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2-33A-E	Australia	X	Question not administered or data not internationally comparable.
SQ2-33A-E	Belgium(Fr)	X	Question not administered or data not internationally comparable.
SQ2-33A-E	Denmark	X	Question not administered or data not internationally comparable.
SQ2-33A-E	England	X	Question not administered or data not internationally comparable.
SQ2-33A-E	France	X	Question not administered or data not internationally comparable.
SQ2-33A-E	Hong Kong	X	Question not administered or data not internationally comparable.
SQ2-33A-E	Iran	X	Question not administered or data not internationally comparable.
SQ2-33A-E	Japan	X	Question not administered or data not internationally comparable.
SQ2-33A-E	Scotland	X	Question not administered or data not internationally comparable.
SQ2-33A-E	Slovak Republi	X	Question not administered or data not internationally comparable.

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**SQ2-34****QUESTION**

Outside of school, how often do you watch the following kinds of programs on television or video?

A: news or documentaries;

B: opera, ballet, or classical music;

C: nature, wildlife, or history;

:

H: comedy, adventure, or suspense.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2-34A-H	Australia	X	Question not administered or data not internationally comparable.
SQ2-34A-H	Belgium(Fr)	X	Question not administered or data not internationally comparable.
SQ2-34A-H	Denmark	X	Question not administered or data not internationally comparable.
SQ2-34A-H	England	X	Question not administered or data not internationally comparable.
SQ2-34A-H	France	X	Question not administered or data not internationally comparable.
SQ2-34A-H	Hong Kong	X	Question not administered or data not internationally comparable.
SQ2-34A-H	Iran	X	Question not administered or data not internationally comparable.
SQ2-34A-H	Japan	X	Question not administered or data not internationally comparable.
SQ2-34A-H	Scotland	X	Question not administered or data not internationally comparable.
SQ2-34A-H	Slovak Republi	X	Question not administered or data not internationally comparable.

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**SQ2S-17B****QUESTION**

I usually do well in biological science.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2S-17B	Belgium(Fr)	X	SQ2S-17 not administered; asked SQ2 form. Data in SQ2-17b.
SQ2S-17B	France	D	Includes Biology/Geology.
SQ2S-17B	Greece	D	Asked SQ2 form; data entered in SQ2S-17b in Biological Science for lower grade students. (Upper grade in Physical Science SQ2S-17d.)
SQ2S-17B	Sweden	D	Administered to upper grade only; SQ2-17b administered to lower grade.

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**SQ2S-17C****QUESTION**

I usually do well in earth science.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2S-17C	Belgium(Fr)	X	SQ2S-17 not administered; asked SQ2 form. Data in SQ2-17b.
SQ2S-17C	France	X	Question not administered or data not internationally comparable.
SQ2S-17C	Greece	X	Question not administered or data not internationally comparable.
SQ2S-17C	Latvia	X	Question not administered or data not internationally comparable.
SQ2S-17C	Portugal	X	Question not administered or data not internationally comparable.
SQ2S-17C	Slovenia	X	Question not administered or data not internationally comparable.
SQ2S-17C	Sweden	D	Administered to upper grade only; SQ2-17b administered to lower grade.

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**SQ2S-17D**      **QUESTION**

I usually do well in physical science.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2S-17D	Belgium(Fr)	X	SQ2S-17 not administered; asked SQ2 form. Data in SQ2-17b.
SQ2S-17D	Greece	D	Asked SQ2 form; data entered in SQ2S-17d in Physical Science for upper grade students. (Lower grade in Biological Science SQ2S-17b.)
SQ2S-17D	Latvia	D	Modified: asked physics and chemistry. Includes average responses.
SQ2S-17D	Netherlands	D	Contains data for students in physics/chemistry, physics or chemistry classes.
SQ2S-17D	Slovenia	D	Modified: asked physics and chemistry. Includes average responses.
SQ2S-17D	Sweden	D	Administered to upper grade only; SQ2-17b administered to lower grade.

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**SQ2S-21B**      **QUESTION**

How much do you like biological science

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2S-21B	Belgium(Fr)	X	SQ2S-21 not administered; asked SQ2 form. Data in SQ2-21b.
SQ2S-21B	France	D	Includes Biology/Geology.
SQ2S-21B	Greece	D	Asked SQ2 form; data entered in SQ2S-21b in Biological Science for lower grade students. (Upper grade in Physical Science SQ2S-21d.)
SQ2S-21B	Sweden	D	Administered to upper grade only; SQ2-21b administered to lower grade.

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**SQ2S-21C**      **QUESTION**

How much do you like earth science

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2S-21C	Belgium(Fr)	X	SQ2S-21 not administered; asked SQ2 form. Data in SQ2-21b.
SQ2S-21C	France	X	Question not administered or data not internationally comparable.
SQ2S-21C	Greece	X	Question not administered or data not internationally comparable.
SQ2S-21C	Latvia	X	Question not administered or data not internationally comparable.
SQ2S-21C	Portugal	X	Question not administered or data not internationally comparable.
SQ2S-21C	Slovenia	X	Question not administered or data not internationally comparable.
SQ2S-21C	Sweden	D	Administered to upper grade only; SQ2-21b administered to lower grade.

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**SQ2S-21D**      **QUESTION**

How much do you like physical science

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2S-21D	Belgium(Fr)	X	SQ2S-21 not administered; asked SQ2 form. Data in SQ2-21b.
SQ2S-21D	Greece	D	Asked SQ2 form; data entered in SQ2S-21d in Physical Science for upper grade students. (Lower grade in Biological Science SQ2S-21b.)
SQ2S-21D	Latvia	D	Modified: asked physics and chemistry. Includes average responses.
SQ2S-21D	Netherlands	D	Contains data for students in physics/chemistry, physics or chemistry classes.
SQ2S-21D	Slovenia	D	Modified: asked physics and chemistry. Includes average responses.
SQ2S-21D	Sweden	D	Administered to upper grade only; SQ2-21b administered to lower grade.

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**SQ2S-28****QUESTION**

Which science(s) are you studying this year?

- A: biology;  
 B: chemistry;  
 C: earth science;  
 D: physics.

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ2S-28A-D	Belgium(Fr)	X	Question not administered or data not internationally comparable.
SQ2S-28B	Denmark	X	Chemistry taught as part of Physics/Chemistry in grades 7-10; Physics/Chemistry data reported in Physics variable (SQ2S-28D).
SQ2S-28D	Denmark	D	Includes data for Physics/Chemistry taught in grades 7-10 (Nature/Technology data for grades 1-6 not included in international database.)
SQ2S-28A	France	D	Includes Biology/Geology.
SQ2S-28B	France	X	Chemistry not asked; Physics/Chemistry reported in Physics (SQ2S-28d).
SQ2S-28C	France	X	Earth Science not asked; Biology/Geology reported in Biology (SQ2S-28a).
SQ2S-28D	France	D	Includes Physics/Chemistry.
SQ2S-28C	Germany	X	Earth Science not asked.
SQ2S-28C	Latvia	X	Question not administered or data not internationally comparable.
SQ2S-28B	Netherlands	X	Deleted chemistry data; small sample size.
SQ2S-28D	Netherlands	D	Includes physics and physics/chemistry.
SQ2S-28A	Portugal	D	Includes Natural Science.
SQ2S-28B,C	Portugal	X	Question not administered or data not internationally comparable.
SQ2S-28D	Portugal	D	Includes Physical Science.
SQ2S-28A-D	Slovenia	X	Question not administered or data not internationally comparable.
SQ2S-28A-D	Sweden	D	Administered to upper grade only.

**SQ2S-29****QUESTION**

What do you think about biology?

- A: I enjoy learning biology.  
 B: Biology is boring.  
 C: Biology is an easy subject.  
 D: Biology is important to everyone's life.  
 E: I would like a job that involved using biology.

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ2S-29A-E	Belgium(Fr)	D	Asked both SQ2 and SQ2S questions. Integrated science students responding to SQ2 version coded as Not Administered.
SQ2S-29A-E	France	D	Includes Biology/Geology.
SQ2S-29A-E	Greece	X	Deleted small sample of Biology students in upper grade.
SQ2S-29A-E	Portugal	D	Includes Natural Science.
SQ2S-29A-E	Sweden	D	Administered to upper grade only; SQ2-28-32 administered to lower grade.

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**SQ2S-30****QUESTION**

I need to do well in biology...  
A: to get the job I want;  
B: to please my parents;  
C: to get into the school I prefer;  
D: to please myself.

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ2S-30A-D	Belgium(Fr)	D	Asked both SQ2 and SQ2S questions. Integrated science students responding to SQ2 version coded as Not Administered.
SQ2S-30A-D	France	D	Includes Biology/Geology.
SQ2S-30A-D	Greece	X	Deleted small sample of Biology students in upper grade.
SQ2S-30A-D	Portugal	D	Includes Natural Science.
SQ2S-30A-D	Sweden	D	Administered to upper grade only; SQ2-28-32 administered to lower grade.

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**SQ2S-31****QUESTION**

How often does this happen in your biology lessons?  
A: The teacher shows us how to do biology problems.  
B: We copy notes from the board.  
C: We have a quiz or test.  
D: We work on biology projects.  
:  
O: The teacher gives a demonstration of an experiment.  
P: We ourselves do an experiment or practical investigation in class.

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ2S-31A-P	Belgium(Fr)	D	Asked both SQ2 and SQ2S questions. Integrated science students responding to SQ2 version coded as Not Administered.
SQ2S-31A-P	France	D	Includes Biology/Geology.
SQ2S-31A-P	Greece	X	Deleted small sample of Biology students in upper grade.
SQ2S-31C	Hungary	D	Possible interpretation problem; asked about a special type of test.
SQ2S-31D	Latvia	X	Translation problem.
SQ2S-31A-P	Portugal	D	Includes Natural Science.
SQ2S-31O	Portugal	X	Question not administered or data not internationally comparable.
SQ2S-31A-P	Sweden	D	Administered to upper grade only; SQ2-28-32 administered to lower grade.

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**SQ2S-32****QUESTION**

When we begin a new topic in biology, we begin by...  
A: having the teacher explain rules and definitions;  
B: discussing a practical or story problem related to everyday life;  
C: working together in small groups on a problem or project;  
:  
F: trying to solve an example related to the new topic.

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ2S-32A-F	Belgium(Fr)	D	Asked both SQ2 and SQ2S questions. Integrated science students responding to SQ2 version coded as Not Administered.
SQ2S-32A-F	France	D	Includes Biology/Geology.
SQ2S-32A-F	Greece	X	Deleted small sample of Biology students in upper grade.
SQ2S-32A-F	Portugal	D	Includes Natural Science.
SQ2S-32A-F	Sweden	D	Administered to upper grade only; SQ2-28-32 administered to lower grade.

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**SQ2S-33****QUESTION**

What do you think about chemistry?

A: I enjoy learning chemistry;

B: Chemistry is boring;

C: Chemistry is an easy subject;

D: Chemistry is important to everyone's life;

E: I would like a job that involved using chemistry.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2S-33A-E	Belgium(Fl)	X	Deleted chemistry data; small sample size.
SQ2S-33A-E	Belgium(Fr)	X	Question not administered or data not internationally comparable.
SQ2S-33A-E	Denmark	X	Chemistry taught as part of Physics/Chemistry in grades 7-10; Physics/Chemistry reported in Physics variables (SQ2S-41).
SQ2S-33A-E	France	X	Chemistry not asked; Physics/Chemistry reported in Physics (SQ2S-41-44).
SQ2S-33A-E	Netherlands	X	Deleted chemistry data; small sample size.
SQ2S-33A-E	Portugal	X	Question not administered or data not internationally comparable.
SQ2S-33A-E	Sweden	D	Administered to upper grade only; SQ2-28-32 administered to lower grade.

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**SQ2S-34****QUESTION**

I need to do well in chemistry...

A: to get the job I want;

B: to please my parents;

C: to get into the school I prefer;

D: to please myself.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2S-34A-D	Belgium(Fl)	X	Deleted chemistry data; small sample size.
SQ2S-34A-D	Belgium(Fr)	X	Question not administered or data not internationally comparable.
SQ2S-34A-D	Denmark	X	Chemistry taught as part of Physics/Chemistry in grades 7-10; Physics/Chemistry data reported in Physics variable (SQ2S-42).
SQ2S-34A-D	France	X	Chemistry not asked; Physics/Chemistry reported in Physics (SQ2S-41-44).
SQ2S-34A-D	Netherlands	X	Deleted chemistry data; small sample size.
SQ2S-34A-D	Portugal	X	Question not administered or data not internationally comparable.
SQ2S-34A-D	Sweden	D	Administered to upper grade only; SQ2-28-32 administered to lower grade.

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**SQ2S-35****QUESTION**

How often does this happen in your chemistry lessons?

A: The teacher shows us how to do chemistry problems;

B: We copy notes from the board;

C: We have a quiz or test;

D: We work on chemistry projects;

:

P: We ourselves do an experiment or practical investigation in class.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2S-35A-P	Belgium(Fl)	X	Deleted chemistry data; small sample size.
SQ2S-35A-P	Belgium(Fr)	X	Question not administered or data not internationally comparable.
SQ2S-35A-P	Denmark	X	Chemistry taught as part of Physics/Chemistry in grades 7-10; Physics/Chemistry data reported in Physics variable (SQ2S-43).
SQ2S-35A-P	France	X	Chemistry not asked; Physics/Chemistry reported in Physics (SQ2S-41-44).
SQ2S-35C	Hungary	D	Possible interpretation problem; asked about a special type of test.
SQ2S-35D	Latvia	X	Translation problem.
SQ2S-35A-P	Netherlands	X	Deleted chemistry data; small sample size.
SQ2S-35A-P	Portugal	X	Question not administered or data not internationally comparable.
SQ2S-35A-P	Sweden	D	Administered to upper grade only; SQ2-28-32 administered to lower grade.

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**SQ2S-36****QUESTION**

When we begin a new topic in chemistry, we begin by...

A: having the teacher explain rules and definitions;

B: discussing a practical or story problem related to everyday life;

C: working together in small groups on a problem or project;

:

F: trying to solve an example related to the new topic.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2S-36A-F	Belgium(Fl)	X	Deleted chemistry data; small sample size.
SQ2S-36A-F	Belgium(Fr)	X	Question not administered or data not internationally comparable.
SQ2S-36A-F	Denmark	X	Chemistry taught as part of Physics/Chemistry in grades 7-10; Physics/Chemistry data reported in Physics variable (SQ2S-44).
SQ2S-36A-F	France	X	Chemistry not asked; Physics/Chemistry reported in Physics (SQ2S-41-44).
SQ2S-36A-F	Netherlands	X	Deleted chemistry data; small sample size.
SQ2S-36A-F	Portugal	X	Question not administered or data not internationally comparable.
SQ2S-36A-F	Sweden	D	Administered to upper grade only; SQ2-28-32 administered to lower grade.

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**SQ2S-37****QUESTION**

What do you think about earth science?

- A: I enjoy learning earth science;
- B: Earth science is boring;
- C: Earth science is an easy subject;
- D: Earth science is important to everyone's life;
- E: I would like a job that involved using earth science.

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ2S-37A-E	Belgium(Fr)	X	Question not administered or data not internationally comparable.
SQ2S-37A-E	France	X	Earth Science not asked; Biology/Geology reported in Biology (SQ2S-29-32).
SQ2S-37A-E	Germany	X	Earth Science not asked.
SQ2S-37A-E	Latvia	X	Earth Science not asked.
SQ2S-37A-E	Portugal	X	Earth Science not asked.
SQ2S-37A-E	Slovenia	X	Earth Science not asked.
SQ2S-37A-E	Sweden	D	Administered to upper grade only; SQ2-28-32 administered to lower grade.

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**SQ2S-38****QUESTION**

I need to do well in earth science...

- A: to get the job I want;
- B: to please my parents;
- C: to get into the school I prefer;
- D: to please myself.

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ2S-38A-D	Belgium(Fr)	X	Question not administered or data not internationally comparable.
SQ2S-38A-D	France	X	Earth Science not asked; Biology/Geology reported in Biology (SQ2S-29-32).
SQ2S-38A-D	Germany	X	Earth Science not asked.
SQ2S-38A-D	Latvia	X	Earth Science not asked.
SQ2S-38A-D	Portugal	X	Earth Science not asked.
SQ2S-38A-D	Slovenia	X	Earth Science not asked.
SQ2S-38A-D	Sweden	D	Administered to upper grade only; SQ2-28-32 administered to lower grade.

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**SQ2S-39****QUESTION**

How often does this happen in your earth science lessons?

- A: The teacher shows us how to do earth science problems;
- B: We copy notes from the board;
- C: We have a quiz or test;
- :
- P: We ourselves do an experiment or practical investigation in class.

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
SQ2S-39A-P	Belgium(Fr)	X	Question not administered or data not internationally comparable.
SQ2S-39A-P	France	X	Earth Science not asked; Biology/Geology reported in Biology (SQ2S-29-32).
SQ2S-39A-P	Germany	X	Earth Science not asked.
SQ2S-39C	Hungary	D	Possible interpretation problem; asked about a special type of test.
SQ2S-39A-P	Latvia	X	Earth Science not asked.
SQ2S-39A-P	Portugal	X	Earth Science not asked.
SQ2S-39A-P	Slovenia	X	Earth Science not asked.
SQ2S-39A-P	Sweden	D	Administered to upper grade only; SQ2-28-32 administered to lower grade.

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**SQ2S-40****QUESTION**

When we begin a new topic in earth science, we begin by...

- A: having the teacher explain rules and definitions;
- B: discussing a practical or story problem related to everyday life;
- C: working together in small groups on a problem or project;
- :
- F: trying to solve an example related to the new topic.

**Questionnaire**

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<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2S-40A-F	Belgium(Fr)	X	Question not administered or data not internationally comparable.
SQ2S-40A-F	France	X	Earth Science not asked; Biology/Geology reported in Biology (SQ2S-29-32).
SQ2S-40A-F	Germany	X	Earth Science not asked.
SQ2S-40A-F	Latvia	X	Earth Science not asked.
SQ2S-40A-F	Portugal	X	Earth Science not asked.
SQ2S-40A-F	Slovenia	X	Earth Science not asked.
SQ2S-40A-F	Sweden	D	Administered to upper grade only; SQ2-28-32 administered to lower grade.

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**SQ2S-41****QUESTION**

What do you think about physics?

- A: I enjoy learning physics;
- B: Physics is boring;
- C: Physics is an easy subject;
- D: Physics is important to everyone's life;
- E: I would like a job that involved using physics.

**Questionnaire**

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<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2S-41A-E	Belgium(Fr)	D	Asked both SQ2 and SQ2S questions. Integrated science students responding to SQ2 version coded as Not Administered.
SQ2S-41A-E	Denmark	D	Includes data for Physics/Chemistry taught in grades 7-10 (Nature/Technology data for grades 1-6 not included in international database.)
SQ2S-41A-E	France	D	Includes Physics/Chemistry.
SQ2S-41A-E	Netherlands	D	Includes physics and physics/chemistry.
SQ2S-41A-E	Portugal	D	Includes Physical Science.
SQ2S-41A-E	Sweden	D	Administered to upper grade only; SQ2-28-32 administered to lower grade.

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**SQ2S-42****QUESTION**

I need to do well in physics...

- A: to get the job I want;
- B: to please my parents;
- C: to get into the school I prefer;
- D: to please myself.

**Questionnaire**

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<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2S-42A-D	Belgium(Fr)	D	Asked both SQ2 and SQ2S questions. Integrated science students responding to SQ2 version coded as Not Administered.
SQ2S-42A-D	Denmark	D	Includes data for Physics/Chemistry taught in grades 7-10 (Nature/Technology data for grades 1-6 not included in international database.)
SQ2S-42A-D	France	D	Includes Physics/Chemistry.
SQ2S-42A-D	Netherlands	D	Includes physics and physics/chemistry.
SQ2S-42A-D	Portugal	D	Includes Physical Science.
SQ2S-42A-D	Sweden	D	Administered to upper grade only; SQ2-28-32 administered to lower grade.

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**SQ2S-43****QUESTION**

How often does this happen in your physics lessons?

A: The teacher shows us how to do physics problems;

B: We copy notes from the board;

C: We have a quiz or test;

D: We work on physics projects;

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O: The teacher gives a demonstration of an experiment;

P: We ourselves do an experiment or practical investigation in class.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2S-43A-P	Belgium(Fr)	D	Asked both SQ2 and SQ2S questions. Integrated science students responding to SQ2 version coded as Not Administered.
SQ2S-43A-P	Denmark	D	Includes data for Physics/Chemistry taught in grades 7-10 (Nature/Technology data for grades 1-6 not included in international database.)
SQ2S-43A-P	France	D	Includes Physics/Chemistry.
SQ2S-43C	Hungary	D	Possible interpretation problem; asked about a special type of test.
SQ2S-43D	Latvia	X	Translation problem.
SQ2S-43A-P	Netherlands	D	Includes physics and physics/chemistry.
SQ2S-43A-P	Portugal	D	Includes Physical Science.
SQ2S-43O	Portugal	X	Question not administered or data not internationally comparable.
SQ2S-43A-P	Sweden	D	Administered to upper grade only; SQ2-28-32 administered to lower grade.

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**SQ2S-44****QUESTION**

When we begin a new topic in physics, we begin by...

A: having the teacher explain rules and definitions;

B: discussing a practical or story problem related to everyday life;

C: working together in small groups on a problem or project;

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F: trying to solve an example related to the new topic.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SQ2S-44A-F	Belgium(Fr)	D	Asked both SQ2 and SQ2S questions. Integrated science students responding to SQ2 version coded as Not Administered.
SQ2S-44A-F	Denmark	D	Includes data for Physics/Chemistry taught in grades 7-10 (Nature/Technology data for grades 1-6 not included in international database.)
SQ2S-44A-F	France	D	Includes Physics/Chemistry.
SQ2S-44A-F	Netherlands	D	Includes physics and physics/chemistry.
SQ2S-44A-F	Portugal	D	Includes Physical Science.
SQ2S-44A-F	Sweden	D	Administered to upper grade only; SQ2-28-32 administered to lower grade.

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# Section 5

Population 2  
Mathematics Teacher Background Questionnaire

**TQM2A3****QUESTION:**

What is the highest level of formal education you have completed?

International response options:

- 1 = <teacher training w/o completing secondary>
- 2 = <secondary only>
- 3 = <secondary + 1 or 2 year teacher training>
- 4 = <secondary and 3 or 4 year teacher training>
- 5 = <BA or equivalent + no teacher training>
- 6 = <BA or equivalent + teacher training>
- 7 = <MA/Ph.D. with no teacher training>
- 8 = <MA/Ph.D. + teacher training>

(Some countries omitted or modified options in accordance with their national systems.)

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2A3	Australia	D	Options 2,5,7 Not Included.
TQM2A3	Austria	X	Question not administered or data not internationally comparable.
TQM2A3	Belgium (Fl)	X	Question not administered or data not internationally comparable.
TQM2A3	Belgium (Fr)	X	Question not administered or data not internationally comparable.
TQM2A3	Canada	D	Options 1 and 2 Not Included.
TQM2A3	Czech Republic	D	Options 1,3,4 Not Included. Modified national options recoded to international categories.
TQM2A3	Denmark	X	Question not administered or data not internationally comparable.
TQM2A3	England	D	Option 6 includes Bachelor of Education and BA plus teacher training. Modified format with national options recoded to international categories.
TQM2A3	Germany	D	Data obtained from ministry.
TQM2A3	Greece	D	Options 1-4 Not Included.
TQM2A3	Hungary	D	Option 1 includes Teacher Training as part of secondary school; Option 3 Not Included. Modified national options recoded to international categories.
TQM2A3	Iceland	D	Option 4 not included. Option 1 combines two options based on older teacher training systems (teacher training as part of secondary education); Option 6 combines Bachelor of Education (B. Ed.) and BA or BS with Teacher Training.
TQM2A3	Iran	D	Options 7 and 8 Not Included.
TQM2A3	Ireland	D	Options 1 and 4 Not Included; Option 6 combines Bachelor of Education (B.Ed.) and BA with Higher Diploma of Education (H.Dip. Ed.).
TQM2A3	Israel	D	Option 1 Not Included.
TQM2A3	Japan	X	Question not administered or data not internationally comparable.
TQM2A3	Korea	D	Options 1,3,4,5,7 Not Included.
TQM2A3	Lithuania	D	Options 1,3,5 Not Included. Modified national options recoded to international categories.
TQM2A3	New Zealand	D	Option 5 includes BA with an education component but no teacher training. Modified national options recoded to international categories.
TQM2A3	Norway	D	Option 1 Not Included. Additional national option for other education coded as invalid.
TQM2A3	Portugal	D	Options 1,2,7,8 Not Included. Modified national options recoded to international categories.
TQM2A3	Romania	D	Option 1 includes teacher training as part of secondary education.
TQM2A3	Russia	D	Asked 8 modified categories; recoded to international categories.
TQM2A3	Scotland	D	Options 1,2,3 Not Included.
TQM2A3	Singapore	D	Option 1 includes General Certificate of Education Ordinary Level (GCE O) with or without teacher training.
TQM2A3	Slovak Republic	D	Option 1 includes teacher training as part of secondary education.
TQM2A3	Spain	D	Option 3 Not Included.
TQM2A3	Sweden	D	Options 1 and 7 not included. Modified national options recoded to international categories; newest form of teacher education not included in national options.
TQM2A3	Switzerland	D	Options 1 and 5 Not Included. Modified national options recoded to international categories.
TQM2A3	Thailand	D	Option 6 includes Bachelor of Education (B.Ed.) and BA + Teacher Training.
TQM2A3	United States	D	Options 1-4 Not Included.

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**TQM2A4****QUESTION:**

Do not teach mathematics this year.  
(This is a filter for 4A-O.)

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2A4	Denmark	X	Filter not asked.
TQM2A4	England	X	Filter not asked.
TQM2A4	Kuwait	X	Filter not asked.
TQM2A4	Scotland	X	Filter not asked.

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**TQM2A4A-O****QUESTION:**

At which grade levels are you teaching mathematics during this school year?

A: pre-kindergarten;

B: kindergarten;

C: grade 1;

:

O: grade 13.

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2A4A	Australia	X	Grade options not included: Pre-kindergarten.
TQM2A4A,B	Austria	X	Grade options not included: Pre-kindergarten and kindergarten.
TQM2A4A-O	Belgium (Fr)	D	Data obtained from ministry.
TQM2A4O	Colombia	X	Grade options not included: Grade 13.
TQM2A4A,B	Czech Republic	X	Grade options not included: Pre-kindergarten and kindergarten.
TQM2A4A,B,N,O	Denmark	X	Grade options not included: Pre-kindergarten, kindergarten, grade 12 and grade 13.
TQM2A4O	England	X	Grade options not included: Grade 13.
TQM2A4A,B	Germany	X	Grade options not included: Pre-kindergarten and kindergarten.
TQM2A4A-H,O	Greece	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 6, and grade 13.
TQM2A4A-H	Hong Kong	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 6.
TQM2A4A	Iceland	X	Grade options not included: Pre-kindergarten.
TQM2A4A-G	Iran	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 5.
TQM2A4K-O	Iran	X	Grade options not included: Grade 9 through grade 13.
TQM2A4A-H,O	Ireland	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 6, and grade 13.
TQM2A4O	Korea	X	Grade options not included: Grade 13.
TQM2A4A-J,O	Kuwait	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 8, and grade 13.
TQM2A4A-F,O	Lithuania	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 4, and grade 13.
TQM2A4A-H,O	Netherlands	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 6, and grade 13.
TQM2A4A,B	New Zealand	X	Grade options not included: Pre-kindergarten and kindergarten.
TQM2A4A,B,L-O	Norway	X	Grade options not included: Pre-kindergarten, kindergarten, and grade 10 through grade 13.
TQM2A4O	Portugal	X	Grade options not included: Grade 13.
TQM2A4N,O	Russia	X	Grade options not included: Grade 12 and grade 13.
TQM2A4A-I	Scotland	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 7.
TQM2A4A,O	Slovak Republic	X	Grade options not included: Pre-kindergarten and grade 13.
TQM2A4A,B,K-O	Slovenia	X	Grade options not included: Pre-kindergarten, kindergarten, and grade 9 through grade 13.
TQM2A4A	Spain	D	Pre-school for 3-year olds.
TQM2A4B	Spain	D	Combines data for pre-school grades 1 and 2 (4 and 5 year-olds).
TQM2A4O	Spain	X	Grade options not included: Grade 13.
TQM2A4A,O	Sweden	X	Grade options not included: Pre-kindergarten and grade 13.
TQM2A4A-F	Switzerland	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 4.
TQM2A4L-O	Switzerland	X	Grade options not included: Grade 10 through grade 13.
TQM2A4O	United States	X	Grade options not included: Grade 13.

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**TQM2A5****QUESTION:**

Do not teach science this year.  
(This is a filter for 5A-O.)

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2A5	Denmark	X	Filter not asked.
TQM2A5	England	X	Filter not asked.
TQM2A5	Kuwait	X	Filter not asked.
TQM2A5	Scotland	X	Filter not asked.

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**TQM2A5A-O****QUESTION:**

At which grade levels are you teaching science during this school year?

A: pre-kindergarten;

B: kindergarten;

C: grade 1;

:

O: grade 13.

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2A5A	Australia	X	Grade options not included: Pre-kindergarten.
TQM2A5A,B	Austria	X	Grade options not included: Pre-kindergarten and kindergarten.
TQM2A5A-O	Belgium (Fr)	D	Data obtained from ministry.
TQM2A5O	Colombia	X	Grade options not included: Grade 13.
TQM2A5A,B	Czech Republic	X	Grade options not included: Pre-kindergarten and kindergarten.
TQM2A5A,B,N,O	Denmark	X	Grade options not included: Pre-kindergarten, kindergarten, grade 12 and grade 13.
TQM2A5O	England	X	Grade options not included: Grade 13.
TQM2A5A,B	Germany	X	Grade options not included: Pre-kindergarten and kindergarten.
TQM2A5A-H,O	Greece	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 6, and grade 13.
TQM2A5A-H	Hong Kong	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 6.
TQM2A5A	Iceland	X	Grade options not included: Pre-kindergarten.
TQM2A5A-G	Iran	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 5.
TQM2A5K-O	Iran	X	Grade options not included: Grade 9 through grade 13.
TQM2A5A-H,O	Ireland	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 6, and grade 13.
TQM2A5O	Korea	X	Grade options not included: Grade 13.
TQM2A5A-J,O	Kuwait	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 8, and grade 13.
TQM2A5A-F,O	Lithuania	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 4, and grade 13.
TQM2A5A-H,O	Netherlands	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 6, and grade 13.
TQM2A5A,B	New Zealand	X	Grade options not included: Pre-kindergarten and kindergarten.
TQM2A5A,B	Norway	X	Grade options not included: Pre-kindergarten and kindergarten.
TQM2A5L-O	Norway	X	Grade options not included: Grade 10 through grade 13.
TQM2A5O	Portugal	X	Grade options not included: Grade 13.
TQM2A5N,O	Russia	X	Grade options not included: Grade 12 and grade 13.
TQM2A5A-I	Scotland	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 7.
TQM2A5A,O	Slovak Republic	X	Grade options not included: Pre-kindergarten and grade 13.
TQM2A5K-O	Slovenia	X	Grade options not included: Grade 9 through grade 13.
TQM2A5A	Spain	D	Pre-school for 3-year olds.
TQM2A5B	Spain	D	Combines data for pre-school grades 1 and 2 (4 and 5 year-olds).
TQM2A5O	Spain	X	Grade options not included: Grade 13.
TQM2A5A,O	Sweden	X	Grade options not included: Pre-kindergarten and grade 13.
TQM2A5A-F	Switzerland	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 4.
TQM2A5L-O	Switzerland	X	Grade options not included: Grade 10 through grade 13.
TQM2A5O	United States	X	Grade options not included: Grade 13.



<b>TQM2A7</b>	<b>QUESTION:</b> By the end of this year, how many years will you have been teaching altogether?
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<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2A7	England	D	Combined years full-time and years part-time.

<b>TQM2A8</b>	<b>QUESTION:</b> At which of these grade levels have you taught in the past 5 years? A: pre-kindergarten; B: kindergarten; C: grade 1; : O: grade 13.
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<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2A8A	Australia	X	Grade options not included: Pre-kindergarten.
TQM2A8A,B	Austria	X	Grade options not included: Pre-kindergarten and kindergarten.
TQM2A8A-O	Belgium (Fr)	D	Data obtained from ministry.
TQM2A8O	Colombia	X	Grade options not included: Grade 13.
TQM2A8A	Czech Republic	X	Grade options not included: Pre-kindergarten.
TQM2A8A,B	Denmark	X	Grade options not included: Pre-kindergarten and kindergarten.
TQM2A8N,O	Denmark	X	Grade options not included: Grade 12 and grade 13.
TQM2A8O	England	X	Grade options not included: Grade 13.
TQM2A8A,B	Germany	X	Grade options not included: Pre-kindergarten and kindergarten.
TQM2A8A-H,O	Greece	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 6, and grade 13.
TQM2A8A-H	Hong Kong	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 6.
TQM2A8A	Iceland	X	Grade options not included: Pre-kindergarten.
TQM2A8A-G	Iran	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 5.
TQM2A8K-O	Iran	X	Grade options not included: Grade 9 through grade 13.
TQM2A8O	Ireland	X	Grade options not included: Grade 13.
TQM2A8O	Korea	X	Grade options not included: Grade 13.
TQM2A8A,B,O	Kuwait	X	Grade options not included: Pre-kindergarten, kindergarten, and grade 13.
TQM2A8A,B,O	Lithuania	X	Grade options not included: Pre-kindergarten, kindergarten and grade 13.
TQM2A8A-H,O	Netherlands	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 6, and grade 13.
TQM2A8A,B	New Zealand	X	Grade options not included: Pre-kindergarten and kindergarten.
TQM2A8A,B,O	Norway	X	Grade options not included: Pre-kindergarten, kindergarten, and grade 13.
TQM2A8O	Portugal	X	Grade options not included: Grade 13.
TQM2A8N,O	Russia	X	Grade options not included: Grade 12 and grade 13.
TQM2A8A-I	Scotland	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 7.
TQM2A8A,O	Slovak Republic	X	Grade options not included: Pre-kindergarten and grade 13.
TQM2A8A	Spain	D	Pre-school for 3-year olds.
TQM2A8B	Spain	D	Combines data for pre-school grades 1 and 2 (4 and 5 year-olds).
TQM2A8O	Spain	X	Grade options not included: Grade 13.
TQM2A8A,O	Sweden	X	Grade options not included: Pre-kindergarten and grade 13.
TQM2A8A,B	Switzerland	X	Grade options not included: Pre-kindergarten and kindergarten.
TQM2A8O	United States	X	Grade options not included: Grade 13.

**TQM2A9****QUESTION:**

How many periods are you scheduled to teach each of the following subjects during the school week?

Internationally defined options:

- A: mathematics;
- B: general/integrated science;
- C: physical science;
- D: earth science;
- E: life science;
- F: biology;
- G: chemistry;
- H: physics;
- I: other subjects.

(Countries to include only those science subjects appropriate in their schools.)

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2A9C-H	Australia	D	Open-ended format for c-h ('other science'); coded to international variables during data entry.
TQM2A9A	Austria	D	Combines 'Mathematics' and 'Geometric Drawing'.
TQM2A9B,E	Austria	X	Subjects not included: General/integrated science and life science.
TQM2A9D	Austria	D	'Geography'
TQM2A9C,E	Belgium (Fl)	X	Subjects not included: Physical science and life science.
TQM2A9C-E	Belgium (Fr)	X	Subjects not included: Physical science, earth science and life science.
TQM2A9B	Colombia	D	Includes 'Natural Sciences'.
TQM2A9C-E	Colombia	X	Subjects not included: Physical science, earth science and life science.
TQM2A9B-D	Cyprus	X	Subjects not included: General/integrated science, physical science, and earth science.
TQM2A9E	Cyprus	D	Includes 'Phytology/Zoology'.
TQM2A9C,E	Czech Republic	X	Subjects not included: Physical science and life science.
TQM2A9D	Czech Republic	D	Includes 'Geography'.
TQM2A9B	Denmark	D	Includes data for 'Nature/Technology' taught in grades 1-6 (including biology, physics, chemistry, geography, and technology subjects).
TQM2A9C	Denmark	D	Includes data for 'Physics/Chemistry' taught in grades 7-10.
TQM2A9E,G,H	Denmark	X	Subjects not included: Life science, chemistry and physics.
TQM2A9C,E	England	X	Subjects not included: Physical science and life science.
TQM2A9B,D,E,G,H	France	X	Subjects not included: General/integrated science, earth science, life science, chemistry and physics.
TQM2A9C	France	D	Includes 'Physics/Chemistry'.
TQM2A9F	France	D	Includes 'Biology/Geology'.
TQM2A9C,E	Germany	X	Subjects not included: Physical science and life science.
TQM2A9A-I	Greece	X	Deleted per NRC request.
TQM2A9C-E	Hong Kong	X	Subjects not included: Physical science, earth science and life science.
TQM2A9A-I	Hungary	X	Question not administered or data not internationally comparable.
TQM2A9B-E	Iceland	X	Subjects not included: General/integrated science, physical science, earth science and life science.
TQM2A9C-H	Iran	X	Subjects not included: Physical science, earth science, life science, biology, chemistry and physics.
TQM2A9C,E-H	Ireland	X	Subjects not included: Physical science, life science, biology, chemistry and physics.
TQM2A9C,E	Israel	X	Subjects not included: Physical science and life science.
TQM2A9C-I	Japan	X	Subjects not included: Physical science, earth science, life science, biology, chemistry, physics and other subjects.
TQM2A9E,H	Korea	X	Subjects not included: Life science and physics.
TQM2A9C,E	Kuwait	X	Subjects not included: Physical science and life science.
TQM2A9B,C,E	Lithuania	X	Subjects not included: General/integrated science, physical science and life science.
TQM2A9D	Lithuania	D	Includes 'Geography'.
TQM2A9E	Netherlands	X	Subjects not included: Life science.
TQM2A9I	Netherlands	D	Combines 'Technology' and 'Other Subjects'.

TQM2A9D,E	New Zealand	X	Subjects not included: Earth science and life science.
TQM2A9F	New Zealand	D	Combines 'Human Biology' and 'Other Biology'.
TQM2A9B	Norway	D	Combines two integrated science classes (6.klasse and 7.klasse).
TQM2A9C-E	Norway	X	Subjects not included: Physical science, earth science and life science.
TQM2A9B	Portugal	D	Includes 'Natural Science'.
TQM2A9D-H	Portugal	X	Subjects not included: Earth science, life science, biology, chemistry and physics.
TQM2A9D	Romania	D	Includes 'Geography/Geology'.
TQM2A9C,E	Russia	X	Subjects not included: Physical science and life science
TQM2A9D	Russia	D	Includes 'Geography'.
TQM2A9D	Scotland	D	Includes 'Geography/Geology'.
TQM2A9E	Scotland	X	Subjects not included: Life science..
TQM2A9F	Scotland	D	Combines 'Human Biology' with 'Other Biology'.
TQM2A9A-I	Singapore	D	Data obtained from ministry based on teachers' personal time tables.
TQM2A9B	Slovak Republic	D	Includes 'Natural History'.
TQM2A9C,E	Slovak Republic	X	Subjects not included: Physical science and life science.
TQM2A9D	Slovak Republic	D	Combines 'Geology' and 'Geography'.
TQM2A9F	Slovak Republic	D	Combines 'Human Biology' and 'Botany/Zoology'.
TQM2A9B-E	Slovenia	X	Subjects not included: General/integrated science, physical science, earth science and life science.
TQM2A9B	Spain	D	Includes 'Natural Sciences'.
TQM2A9C-H	Spain	X	Subjects not included: Physical science, earth science, life science, biology, chemistry and physics.
TQM2A9A,B	Sweden	D	Pertains to 40-minute periods.
TQM2A9C-E	Sweden	X	Subjects not included: Physical science, earth science and life science.
TQM2A9F-I	Sweden	D	Pertains to 40-minute periods.
TQM2A9C,E	Switzerland	X	Subjects not included: Physical science and life science.
TQM2A9D	Switzerland	D	Includes 'Geography'.
TQM2A9F-H	Switzerland	D	Not Included in Italian version.
TQM2A9A	Thailand	D	Combines 'Compulsory Mathematics' and 'Elective Mathematics'.
TQM2A9B	Thailand	D	Combines 'General Science' and 'Science Elective'.
TQM2A9D,E	Thailand	X	Subjects not included: Earth science and life science.

#### TQM2A10

#### QUESTION:

How many periods are you scheduled to perform each of the following tasks during the school week?

- A: student supervision;
- B: student counseling/appraisal;
- C: administrative duties;
- D: individual curriculum planning;
- E: cooperative curriculum planning;
- F: other non-student contact time.

#### Questionnaire

Item ID:	Country:	Code:	Comment:
TQM2A10A-F	Austria	X	Question not administered or data not internationally comparable.
TQM2A10A-F	Denmark	X	Deleted per NRC request.
TQM2A10A-F	Greece	X	Deleted per NRC request.
TQM2A10E	Hungary	X	Question not administered or data not internationally comparable.
TQM2A10E	Kuwait	X	Question not administered or data not internationally comparable.
TQM2A10A-F	Netherlands	X	Question not administered or data not internationally comparable.
TQM2A10D-F	Norway	X	Question not administered or data not internationally comparable.
TQM2A10A-F	Russia	X	Not asked; all formally-scheduled time is teaching.
TQM2A10A-F	Scotland	X	Question not administered or data not internationally comparable.
TQM2A10C-E	Singapore	X	Question not administered or data not internationally comparable.
TQM2A10F	Singapore	D	Data obtained from ministry based on teachers' personal time tables.
TQM2A10A-F	Sweden	D	Pertains to 40-minute periods.

<b>TQM2A11</b>	<b>QUESTION:</b>		
	For how many single <hours/periods> are you <scheduled/time tabled> in one school week altogether?		
<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2A11	Denmark	X	Deleted per NRC request.
TQM2A11	Hungary	X	Question not administered or data not internationally comparable.
TQM2A11	Sweden	D	Pertains to 40-minute periods.

<b>TQM2A12</b>	<b>QUESTION:</b>		
	How many hours per week do you normally spend on each of the following activities outside the formal school day? A: preparing or grading exams; B: reading or grading other student work; C: planning lessons by yourself; : H: administrative tasks including staff meetings.		
<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2A12A-H	Austria	D	Option 5 (More than 4 hours) = Combined 5-6 hours and more than 6 hours.
TQM2A12A-H	Denmark	X	Deleted per NRC request.

<b>TQM2A13</b>	<b>QUESTION:</b>		
	How often do you have meetings with other teachers in your subject area to discuss and plan curriculum or teaching approaches?		
<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2A13	Australia	D	Option 4 (Once a month) includes 'once/month' and 'once/fortnight'.
TQM2A13	Denmark	X	Deleted per NRC request.
TQM2A13	England	D	Modified: asked about teachers in own school and other schools;" calculated as sum.
TQM2A13	Singapore	D	Modified: Option 3 (Every other month) = 'Once/Term'.

<b>TQM2A14</b>	<b>QUESTION:</b>		
	How much influence do you have on each of the following... A: subject matter to be taught; B: textbooks to be used; C: the amount of money to be spent on supplies; D: what supplies are purchased.		
<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2A14A-D	England	X	Question not administered or data not internationally comparable.

<b>TQM2A15</b>	<b>QUESTION:</b>		
	To be good at mathematics, how important do you think it is for students to... A: remember formulas and procedures; B: think in a sequential & procedural manner; C: understand mathematical concepts; : F: be able to provide reasons to support their solutions.		
<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2A15A-F	Scotland	X	Question not administered or data not internationally comparable.

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**TQM2A16****QUESTION:**

To what extent do you agree or disagree with each of the following statements?

A: Mathematics is primarily an abstract subject.

B: Mathematics is primarily a formal way of representing the real world.

C: Mathematics is primarily a practical and structured guide for addressing real situations.

D: If students are having difficulty, an effective approach is to give them more practice by themselves during the class.

:

I: A liking for and understanding of students are essential for teaching mathematics.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2A16I	England	X	Question not administered or data not internationally comparable.
TQM2A16D,I	Hungary	X	Question not administered or data not internationally comparable.
TQM2A16A-I	Scotland	X	Question not administered or data not internationally comparable.

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**TQM2A17****QUESTION:**

Indicate your familiarity with each of the following documents:

International options:

- A: <The National Curriculum Guide for Mathematics>
- B: <The Regional Curriculum Guide for Mathematics>
- C: <The School Curriculum Guide>
- D: <The National Examination Specifications>
- E: <The Regional Examination Specifications>
- F: <The National Pedagogy Guide for mathematics>
- G: <The Regional Pedagogy Guide for Mathematics>.

(Some countries omitted or modified some options in accordance with their national systems.)

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2A17D,F,G	Australia	X	Questions about these documents not included.
TQM2A17E-G	Austria	X	Questions about these documents not included.
TQM2A17A,C	Belgium (Fl)	D	Questions asked but response option 1 (No Such Document) Not included.
TQM2A17B,D-G	Belgium (Fl)	X	Questions about these documents not included.
TQM2A17A	Belgium (Fr)	D	Questions asked but response option 1 (No Such Document) Not included.
TQM2A17B-G	Belgium (Fr)	X	Questions about these documents not included.
TQM2A17A,D,E,G	Canada	X	Questions about these documents not included.
TQM2A17B	Canada	D	Provincial Curriculum Guide
TQM2A17F	Canada	D	NCTM Standards; administered only in English version.
TQM2A17E-G	Colombia	X	Questions about these documents not included.
TQM2A17A	Cyprus	D	National Curriculum guide for 'Gymnasium'.
TQM2A17B-G	Cyprus	X	Questions about these documents not included.
TQM2A17D,E	Czech Republic	X	Questions about these documents not included.
TQM2A17A-G	Denmark	X	Deleted per NRC request.
TQM2A17A-G	England	X	Question not administered or data not internationally comparable.
TQM2A17B,C,E,G	France	X	Questions about these documents not included.
TQM2A17B,D-G	Germany	X	Questions about these documents not included.
TQM2A17B-E,G	Greece	X	Questions about these documents not included.
TQM2A17B,E-G	Hong Kong	X	Questions about these documents not included.
TQM2A17B,E,G	Hungary	X	Questions about these documents not included.
TQM2A17E,G	Iceland	X	Questions about these documents not included.
TQM2A17B,C,E,G	Iran	X	Questions about these documents not included.
TQM2A17B-G	Ireland	X	Questions about these documents not included.
TQM2A17B,C,E-G	Kuwait	X	Questions about these documents not included.
TQM2A17A-C,E-G	Netherlands	X	Questions about these documents not included.
TQM2A17D	Netherlands	D	Questions asked but response option 1 (No Such Document) Not included.
TQM2A17E-G	Norway	X	Questions about these documents not included.
TQM2A17A	Portugal	D	Combines two questions: National Curriculum for Mathematics and official documents relating to curriculum implementation.
TQM2A17B,E-G	Portugal	X	Questions about these documents not included.
TQM2A17D-G	Russia	X	Questions about these documents not included.
TQM2A17A-G	Scotland	X	Question not administered or data not internationally comparable.
TQM2A17A	Slovak Republic	D	Combines data from 2 options related to national curriculum guide.
TQM2A17B,E,G	Slovak Republic	X	Questions about these documents not included.
TQM2A17B-G	Spain	X	Questions about these documents not included.
TQM2A17A	Sweden	D	Combines data from two questions relating to national curriculum guides (in parts a and b).
TQM2A17B,D,E	Sweden	X	Questions about these documents not included.
TQM2A17D	Switzerland	X	Questions about these documents not included.
TQM2A17A	United States	D	No national curricula exist; includes data for National Council of Teachers of Mathematics (NCTM) Professional Standards for Teaching Mathematics.
TQM2A17B	United States	D	Includes data for State Education Department Curriculum Guide.

TQM2A17C	United States	D	Includes data for School Curriculum Guide; national option for School District Curriculum Guide not included in international database.
TQM2A17D	United States	D	Includes data for the National Assessment of Educational Progress (NAEP) Assessment Frameworks/Specifications.
TQM2A17E	United States	D	Includes data for State Education Department Assessment Specifications.
TQM2A17F,G	United States	X	Questions about these documents not included.

**TQM2A18**      **QUESTION:**

Was teaching your first choice as a career when beginning university?

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2A18	Denmark	X	Question not administered or data not internationally comparable.
TQM2A18	France	X	Question not administered or data not internationally comparable.
TQM2A18	Hong Kong	X	Question not administered or data not internationally comparable.
TQM2A18	Iran	X	Question not administered or data not internationally comparable.
TQM2A18	Japan	X	Question not administered or data not internationally comparable.
TQM2A18	Netherlands	X	Question not administered or data not internationally comparable.
TQM2A18	Norway	X	Question not administered or data not internationally comparable.
TQM2A18	Scotland	X	Question not administered or data not internationally comparable.
TQM2A18	Singapore	X	Question not administered or data not internationally comparable.
TQM2A18	Sweden	X	Question not administered or data not internationally comparable.
TQM2A18	United States	X	Question not administered or data not internationally comparable.

**TQM2A19**      **QUESTION:**

Would you change to another career if you had the opportunity?

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2A19	Denmark	X	Question not administered or data not internationally comparable.
TQM2A19	France	X	Question not administered or data not internationally comparable.
TQM2A19	Hong Kong	X	Question not administered or data not internationally comparable.
TQM2A19	Iran	X	Question not administered or data not internationally comparable.
TQM2A19	Japan	X	Question not administered or data not internationally comparable.
TQM2A19	Netherlands	X	Question not administered or data not internationally comparable.
TQM2A19	Norway	X	Question not administered or data not internationally comparable.
TQM2A19	Scotland	X	Question not administered or data not internationally comparable.
TQM2A19	Singapore	X	Question not administered or data not internationally comparable.
TQM2A19	Sweden	X	Question not administered or data not internationally comparable.
TQM2A19	United States	X	Question not administered or data not internationally comparable.

**TQM2A20****QUESTION:**

Do you think that society appreciates your work?

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2A20	Denmark	X	Question not administered or data not internationally comparable.
TQM2A20	France	X	Question not administered or data not internationally comparable.
TQM2A20	Hong Kong	X	Question not administered or data not internationally comparable.
TQM2A20	Iran	X	Question not administered or data not internationally comparable.
TQM2A20	Japan	X	Question not administered or data not internationally comparable.
TQM2A20	Netherlands	X	Question not administered or data not internationally comparable.
TQM2A20	Norway	X	Question not administered or data not internationally comparable.
TQM2A20	Scotland	X	Question not administered or data not internationally comparable.
TQM2A20	Singapore	X	Question not administered or data not internationally comparable.
TQM2A20	Sweden	X	Question not administered or data not internationally comparable.
TQM2A20	United States	X	Question not administered or data not internationally comparable.

**TQM2A21****QUESTION:**

Do you think your students appreciate your work?

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2A21	Denmark	X	Question not administered or data not internationally comparable.
TQM2A21	France	X	Question not administered or data not internationally comparable.
TQM2A21	Hong Kong	X	Question not administered or data not internationally comparable.
TQM2A21	Iran	X	Question not administered or data not internationally comparable.
TQM2A21	Japan	X	Question not administered or data not internationally comparable.
TQM2A21	Netherlands	X	Question not administered or data not internationally comparable.
TQM2A21	Norway	X	Question not administered or data not internationally comparable.
TQM2A21	Scotland	X	Question not administered or data not internationally comparable.
TQM2A21	Singapore	X	Question not administered or data not internationally comparable.
TQM2A21	Sweden	X	Question not administered or data not internationally comparable.
TQM2A21	United States	X	Question not administered or data not internationally comparable.

**TQM2A22****QUESTION:**

Approximately how many books are in your home?

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2A22	Austria	X	Question not administered or data not internationally comparable.
TQM2A22	Denmark	X	Question not administered or data not internationally comparable.
TQM2A22	England	X	Question not administered or data not internationally comparable.
TQM2A22	France	X	Question not administered or data not internationally comparable.
TQM2A22	Hong Kong	X	Question not administered or data not internationally comparable.
TQM2A22	Iran	X	Question not administered or data not internationally comparable.
TQM2A22	Ireland	X	Question not administered or data not internationally comparable.
TQM2A22	Japan	X	Question not administered or data not internationally comparable.
TQM2A22	Netherlands	X	Question not administered or data not internationally comparable.
TQM2A22	Norway	X	Question not administered or data not internationally comparable.
TQM2A22	Scotland	X	Question not administered or data not internationally comparable.
TQM2A22	Singapore	X	Question not administered or data not internationally comparable.
TQM2A22	Sweden	X	Question not administered or data not internationally comparable.
TQM2A22	United States	X	Question not administered or data not internationally comparable.



<b>TQM2A23</b>	<b>QUESTION:</b> Please rank the following professions in order of social status. A: accountant; B: medical doctor; C: lawyer; : H: teacher, secondary school; I: unskilled worker.
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Questionnaire Item ID:	Country:	Code:	Comment:
TQM2A23H	Austria	X	Question not administered or data not internationally comparable.
TQM2A23A-I	Denmark	X	Question not administered or data not internationally comparable.
TQM2A23A-I	England	D	Occupations presented in randomized order; recoded to match international version.
TQM2A23A-I	France	X	Question not administered or data not internationally comparable.
TQM2A23A-I	Germany	X	Question not administered or data not internationally comparable.
TQM2A23A-I	Germany	X	Question not administered or data not internationally comparable.
TQM2A23A-I	Hong Kong	X	Question not administered or data not internationally comparable.
TQM2A23A-I	Iran	X	Question not administered or data not internationally comparable.
TQM2A23A-I	Ireland	X	Question not administered or data not internationally comparable.
TQM2A23A-I	Japan	X	Question not administered or data not internationally comparable.
TQM2A23A-I	Netherlands	X	Question not administered or data not internationally comparable.
TQM2A23A-I	Norway	X	Question not administered or data not internationally comparable.
TQM2A23A-I	Scotland	X	Question not administered or data not internationally comparable.
TQM2A23A-I	Singapore	X	Question not administered or data not internationally comparable.
TQM2A23A-I	Sweden	X	Question not administered or data not internationally comparable.
TQM2A23A-I	Switzerland	X	Question not administered or data not internationally comparable.
TQM2A23A-I	United States	X	Question not administered or data not internationally comparable.

<b>TQM2B1</b>	<b>QUESTION:</b> 1. How many boys are in your mathematics class? 2. How many girls are in your mathematics class?
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Questionnaire Item ID:	Country:	Code:	Comment:
TQM2B1	Singapore	D	Data obtained from ministry.

<b>TQM2B2</b>	<b>QUESTION:</b> What percent of students in your class have: A: high achievement levels (i.e. in the top third nationally) ; B: middle achievement levels (middle third nationally); C: low achievement levels ( bottom third nationally).
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Questionnaire Item ID:	Country:	Code:	Comment:
TQM2B2A-C	Austria	X	Question not administered or data not internationally comparable.
TQM2B2A-C	England	X	Deleted data per NRC request.
TQM2B2A-C	Japan	X	Question not administered or data not internationally comparable.
TQM2B2A-C	Netherlands	X	Question not administered or data not internationally comparable.
TQM2B2A-C	Scotland	X	Question not administered or data not internationally comparable.

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<b>TQM2B3</b>	<b>QUESTION:</b>		
	How many minutes per week do you teach mathematics to your class?		
<hr/>			
<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2B3	Austria	D	Computed from number of lessons/week and duration.
TQM2B3	Denmark	X	Deleted per NRC request.
TQM2B3	England	D	Linking problems with multiple teachers/class; data kept in international variable but not included in report variable.
TQM2B3	Iran	X	Deleted data per NRC request.
TQM2B3	Singapore	D	Data obtained from ministry; derived from school questionnaire data.

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<b>TQM2B4</b>	<b>QUESTION:</b>		
	Do you use a textbook in teaching mathematics to your class? (This is a filter for B4/1 and B4/2.)		
<hr/>			
<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2B4	Slovak Republic	X	Filter not administered.

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**TQM2B4/1****QUESTION:**

Do you use &lt;text&gt; (1A-1J) in your class?

(List of textbooks specific to each country; documentation of national options not available.)

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2B4/1A-1J	Australia	X	Question not administered or data not internationally comparable.
TQM2B4/1J	Austria	X	Question not administered or data not internationally comparable.
TQM2B4/1A-1J	Belgium (Fl)	X	Question not administered or data not internationally comparable.
TQM2B4/1A-1J	Belgium (Fr)	X	Question not administered or data not internationally comparable.
TQM2B4/1A-1J	Canada	X	Question not administered or data not internationally comparable.
TQM2B4/1E-1J	Colombia	X	Question not administered or data not internationally comparable.
TQM2B4/1C-1J	Cyprus	X	Question not administered or data not internationally comparable.
TQM2B4/1A-1J	Czech Republic	X	Question not administered or data not internationally comparable.
TQM2B4/1A-1J	Denmark	X	Question not administered or data not internationally comparable.
TQM2B4/1A-1J	France	X	Question not administered or data not internationally comparable.
TQM2B4/1A-1J	Germany	X	Question not administered or data not internationally comparable.
TQM2B4/1C-1J	Greece	X	Question not administered or data not internationally comparable.
TQM2B4/1A-1J	Hong Kong	X	Question not administered or data not internationally comparable.
TQM2B4/1A-1J	Hungary	X	Question not administered or data not internationally comparable.
TQM2B4/1A-1J	Iran	X	Question not administered or data not internationally comparable.
TQM2B4/1E-1J	Ireland	X	Question not administered or data not internationally comparable.
TQM2B4/1F-1J	Israel	X	Question not administered or data not internationally comparable.
TQM2B4/1G-1J	Japan	X	Question not administered or data not internationally comparable.
TQM2B4/1D-1J	Kuwait	X	Question not administered or data not internationally comparable.
TQM2B4/1E-1J	Latvia	X	Question not administered or data not internationally comparable.
TQM2B4/1A-1J	Lithuania	X	Question not administered or data not internationally comparable.
TQM2B4/1A-1J	New Zealand	X	Question not administered or data not internationally comparable.
TQM2B4/1A-1J	Norway	X	Question not administered or data not internationally comparable.
TQM2B4/1A-1J	Portugal	X	Question not administered or data not internationally comparable.
TQM2B4/1E-1J	Romania	X	Question not administered or data not internationally comparable.
TQM2B4/1F-1J	Russia	X	Question not administered or data not internationally comparable.
TQM2B4/1D-1J	Scotland	X	Question not administered or data not internationally comparable.
TQM2B4/1A-1J	Singapore	X	Question not administered or data not internationally comparable.
TQM2B4/1C-1J	Slovenia	X	Question not administered or data not internationally comparable.
TQM2B4/1A-1J	Spain	X	Question not administered or data not internationally comparable.
TQM2B4/1A-1J	Sweden	X	Question not administered or data not internationally comparable.
TQM2B4/1A-1J	Switzerland	X	Question not administered or data not internationally comparable.
TQM2B4/1A-1J	Thailand	X	Question not administered or data not internationally comparable.
TQM2B4/1F-1J	United States	X	Question not administered or data not internationally comparable.

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**TQM2B4/2**      **QUESTION:**  
 Name of textbook.  
 (Open-ended format; coded during data entry. Identification of nationally-defined textbook codes not available.)

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQM2B4/2	Austria	X	Question not administered or data not internationally comparable.
TQM2B4/2	Belgium (Fl)	X	Question not administered or data not internationally comparable.
TQM2B4/2	Colombia	X	Question not administered or data not internationally comparable.
TQM2B4/2	Cyprus	X	Question not administered or data not internationally comparable.
TQM2B4/2	Denmark	X	Question not administered or data not internationally comparable.
TQM2B4/2	England	X	Question not administered or data not internationally comparable.
TQM2B4/2	Greece	X	Question not administered or data not internationally comparable.
TQM2B4/2	Hungary	X	Question not administered or data not internationally comparable.
TQM2B4/2	Iceland	X	Question not administered or data not internationally comparable.
TQM2B4/2	Iran	X	Question not administered or data not internationally comparable.
TQM2B4/2	Ireland	X	Question not administered or data not internationally comparable.
TQM2B4/2	Kuwait	X	Question not administered or data not internationally comparable.
TQM2B4/2	Romania	X	Question not administered or data not internationally comparable.
TQM2B4/2	Russia	X	Question not administered or data not internationally comparable.
TQM2B4/2	Slovak Republic	X	Question not administered or data not internationally comparable.
TQM2B4/2	Slovenia	X	Question not administered or data not internationally comparable.
TQM2B4/2	Thailand	X	Question not administered or data not internationally comparable.

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**TQM2B5**      **QUESTION:**  
 What percentage of your teaching time is based on the text?

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQM2B5	Slovak Republic	X	Question not administered or data not internationally comparable.

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**TQM2B6**      **QUESTION:**  
 What do you use in the place of or in addition to a textbook?

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQM2B6	Austria	X	Question not administered or data not internationally comparable.
TQM2B6	Cyprus	X	Question not administered or data not internationally comparable.
TQM2B6	Denmark	X	Deleted per NRC request.
TQM2B6	England	X	Deleted per NRC request.
TQM2B6	New Zealand	X	Question not administered or data not internationally comparable.
TQM2B6	Norway	X	Question not administered or data not internationally comparable.
TQM2B6	Slovak Republic	X	Question not administered or data not internationally comparable.
TQM2B6	Thailand	X	Question not administered or data not internationally comparable.

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**TQM2B7****QUESTION:**

In your view to what extent do the following limit how you teach your mathematics class?

- A: students with different academic abilities;
- B: students from a wide range of backgrounds;
- C: students with special needs;
- D: uninterested students;
- E: disruptive students;
- F: parents interested in their children's learning and progress;
- G: parents uninterested in their children's learning and progress;
- H: shortage of computer hardware;
- I: shortage of computer software;
- J: shortage of other instructional equipment for students' use;
- K: shortage of equipment for your use in demonstrations and other exercises
- L: inadequate physical facilities;
- M: high student/teacher ratio;
- N: low morale among fellow teachers/administrators;
- O: low morale among students;
- P: threats to personal safety or the safety of students.

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQM2B7F	France	X	Question not administered or data not internationally comparable.
TQM2B7B,C,E,G	Japan	X	Question not administered or data not internationally comparable.
TQM2B7L,N-P	Japan	X	Question not administered or data not internationally comparable.

**TQM2B8****QUESTION:**

How many of your students have access to calculators during mathematics lessons?

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQM2B8	Austria	D	Modified options: 1 = '100%'; 2 = '>75%'; 3 = '>50%'; 4 = '>25% or <25%'; 5 = 'none'.
TQM2B8	Hungary	X	Question not administered or data not internationally comparable.

**TQM2B9****QUESTION:**

How often do your students in your mathematics class use calculators for the following activities?

- A: checking answers;
- B: tests & exams;
- C: routine computation;
- D: solving complex problems;
- E: exploring number concepts.

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQM2B9A-E	Scotland	X	Question not administered or data not internationally comparable.

**TQM2B10****QUESTION:**

When planning mathematics lessons, how much do you rely on:

- A: your own previously prepared lessons;
- B: a written plan compiled by teachers in the school;
- C: other teachers or math specialists in your school;
- D: student textbooks;
- E: other textbooks or resource books;
- F: teacher guides or teacher edition of textbooks;
- G: external examinations or standardized tests.

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQM2B10G	Belgium (Fl)	X	Question not administered or data not internationally comparable.
TQM2B10F,G	Belgium (Fr)	X	Question not administered or data not internationally comparable.
TQM2B10A-G	Scotland	X	Question not administered or data not internationally comparable.

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**TQM2B11****QUESTION:**

In planning mathematics lessons, what is your main source of written information when...

A: deciding which topics to teach;

B: deciding how to present a topic;

C: selecting problems & exercises for work in class and homework;

D: selecting problems and applications for assessment and evaluation.

International response options:

1 = other resource books

2 = student edition of textbook

3 = teacher edition of textbook

4 = <School Curriculum Guide>

5 = <National or Regional Curriculum Guide>

6 = <National or Regional Examination Specifications>

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2B11A-D	Australia	D	Option 6 Not Included.
TQM2B11A-D	Belgium (Fl)	D	Option 6 Not Included.
TQM2B11A-D	Belgium (Fr)	D	Options 3, 4 and 6 Not Included.
TQM2B11A-D	Canada	X	Question not administered or data not internationally comparable.
TQM2B11A-D	Czech Republic	D	Option 6 Not Included.
TQM2B11A-D	Denmark	X	Deleted per NRC request.
TQM2B11A-D	England	D	Option 1 combines subject association materials and other resource materials; Option 6 Not Included. (Note: omitted from report variable.)
TQM2B11A-D	Germany	D	Option 6 Not Included.
TQM2B11A-D	Greece	D	Option 6 Not Included.
TQM2B11A-D	Iran	D	Option 4 Not Included.
TQM2B11A-D	Ireland	D	Option 6 Not Included.
TQM2B11A-D	Kuwait	D	Options 4,5,6 Not Included.
TQM2B11A-D	Netherlands	D	Option 5 Not Included; Option 6 combines two questions about exam specs.
TQM2B11A-D	Norway	D	Option 6 Not Included.
TQM2B11A-D	Portugal	D	Options 4 and 6 Not Included; Option 5 combines two questions related to national curriculum guide.
TQM2B11A-D	Spain	D	Options 4,5,6 Not Included.
TQM2B11A-D	Sweden	D	Options 4 and 6 Not Included. Option 5 combines two options pertaining to National Curriculum Guides.
TQM2B11A-D	Switzerland	D	Option 3 Not Included in Italian version.
TQM2B11A-D	United States	D	Option 4 = School Curriculum Guide; Option 5 = State or School District Curriculum Guide; Option 6 = the National Assessment for Educational Progress (NAEP) or Statewide Assessment Guidelines.

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**TQM2B12****QUESTION:**

How long did you spend teaching each of these topics to your mathematics class this year? Will you cover any of these topics in future <periods>?

- A: whole numbers;  
 B: common & decimal fraction;  
 C: percentages;  
 :  
 V: other mathematics content.

(Note: Documentation on any national modifications made to mathematics topics not available.)

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQM2B12A-VC	Austria	D	Extra response categories coded to international categories.
TQM2B12N-N2C	Austria	X	Question not administered or data not internationally comparable.
TQM2B12O-O2C	Austria	X	Question not administered or data not internationally comparable.
TQM2B12Q1-Q2C	Austria	X	Question not administered or data not internationally comparable.
TQM2B12T-TC	Austria	X	Question not administered or data not internationally comparable.
TQM2B12U-UC	Austria	X	Question not administered or data not internationally comparable.
TQM2B12V-VC	Austria	X	Question not administered or data not internationally comparable.
TQM2B12A-VC	England	X	Question not administered or data not internationally comparable.
TQM2B12A1-A1C	Israel	X	Question not administered or data not internationally comparable.
TQM2B12N2	Israel	X	Question not administered or data not internationally comparable.
TQM2B12O1	Israel	X	Question not administered or data not internationally comparable.
TQM2B12Q1-Q1C	Israel	X	Question not administered or data not internationally comparable.
TQM2B12V-VC	Israel	X	Question not administered or data not internationally comparable.
TQM2B12B4-B7C	Latvia	X	Question not administered or data not internationally comparable.
TQM2B12A	Russia	X	Question not administered or data not internationally comparable.
TQM2B12A-VC	Russia	D	Data obtained from ministry.
TQM2B12A-VC	Scotland	X	Question not administered or data not internationally comparable.
TQM2B12A-VC	Singapore	D	Data obtained from ministry.

**TQM2B13****QUESTION:**

Think of the last <lesson> in which you taught mathematics.

A: How many minutes was the lesson?

B: For each of the following mathematics topics, indicate if it was the subject of this lesson.

- 1) Whole number;
- 2) Common & decimal fraction;
- 3) Percentages;
- :
- 22) Other mathematics content.

F: Was a computer used during this class?

(Note: Documentation on any national modifications made to mathematics topics not available.)

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQM2B13B01-B22	Austria	X	Question not administered or data not internationally comparable.
TQM2B13A	Denmark	D	Asked about single/double lessons; all values equal to 45 or 90 minutes.
TQM2B13A-F	England	X	Question not administered or data not internationally comparable.
TQM2B13A-F	Scotland	X	Question not administered or data not internationally comparable.

<b>TQM2B14</b>	<b>QUESTION:</b> How did the lesson proceed? A: The order in which the activities listed took place and approximate number of minutes for each activity lasted: AA1) review of previous lesson(s); AB1) a short quiz or test to review previous lesson; : AK1) student laboratory or data collection activity. B: In this class did the students work in small groups?
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<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2B14B	Austria	X	Question not administered or data not internationally comparable.
TQM2B14A01-A11	England	X	Question not administered or data not internationally comparable.
TQM2B14B	England	X	Question not administered or data not internationally comparable.
TQM2B14A01-A11	Scotland	X	Question not administered or data not internationally comparable.
TQM2B14B	Scotland	X	Question not administered or data not internationally comparable.

<b>TQM2B15</b>	<b>QUESTION:</b> In your mathematics lessons, how often do you ask students to do each of the following? A: explain reasoning behind an idea; B: represent & analyze relationships using tables, charts, or graphs; C: work on problems for which there is no immediately obvious method of solution; D: use computers to solve exercises or problems; E: write equations to represent relationships; F: practice computational skills.
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<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2B15F	Greece	D	Translation/interpretation problem (data retained).
TQM2B15D	Hungary	X	Question not administered or data not internationally comparable.
TQM2B15D	Iceland	X	Question not administered or data not internationally comparable.
TQM2B15D	Israel	X	Question not administered or data not internationally comparable.
TQM2B15F	Japan	X	Question not administered or data not internationally comparable.
TQM2B15F	Latvia	X	Question not administered or data not internationally comparable.
TQM2B15A-F	Netherlands	D	Omitted for Upper-Grade teachers.
TQM2B15F	Portugal	X	Question not administered or data not internationally comparable.
TQM2B15A-F	Scotland	X	Question not administered or data not internationally comparable.
TQM2B15E,F	Spain	X	Question not administered or data not internationally comparable.

<b>TQM2B16</b>	<b>QUESTION:</b> In your mathematics lessons, how frequently do you do the following when a student gives an incorrect response? A: correct the student in front of the class; B: ask the student another question to help him or her get the correct response; C: call on a student who's likely to give the correct response; D: call on other students to get their responses & then discuss what is correct.
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<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2B16A-D	Netherlands	D	Not available for Upper-Grade teachers.
TQM2B16A-D	Scotland	X	Question not administered or data not internationally comparable.



<b>TQM2B18 QUESTION:</b>			
How often do you assign mathematics homework?			
<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2B18	Austria	D	Option 5 (Every day) = 'Every Lesson'.
TQM2B18	Germany	D	Option 5 (Every day) = 'Every Lesson'.
TQM2B18	Hungary	D	Option 4 (3 or 4 times a week) combines '3-4 lessons/week' and 'every lesson'; Option 5 (Every day) Not Included.
TQM2B18	Switzerland	D	Option 5 (Every day) = 'Every Lesson'.

<b>TQM2B19 QUESTION:</b>			
If you assign mathematics homework, how many minutes of homework do you usually assign your students?			
<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2B19	Austria	D	Option 1 (I do not assign homework) Not Included.

<b>TQM2B20 QUESTION:</b>			
If you assign mathematics homework, how often do you assign each of the following kinds of tasks? A: worksheets for homework; B: problem/question sets in textbook; C: reading in a textbook or supplementary materials; : J: keeping a journal.			
<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2B20A-J	Austria	D	Option 5 (I do not assign homework) Not Included.
TQM2B20A-J	Belgium (Fr)	D	Option 5 (I do not assign homework) Not Included; derived from TQM(S)2-B19 Option 1.
TQM2B20J	Portugal	X	Question not administered or data not internationally comparable.
TQM2B20A-J	Scotland	X	Question not administered or data not internationally comparable.

<b>TQM2B21 QUESTION:</b>			
If students are assigned written mathematics homework, how often do you do the following? A: record whether or not homework was completed; B: collect, correct and keep homework assignments; C: collect, correct and return homework assignments; : H: use it to contribute towards students' grades or marks.			
<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2B21A-H	Austria	D	Option 5 (I do not assign homework) Not Included.
TQM2B21A-H	Belgium (Fr)	D	Option 5 (I do not assign homework) Not Included; derived from TQM(S)2-B19 Option 1.
TQM2B21A-H	Scotland	X	Question not administered or data not internationally comparable.

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**TQM2B22****QUESTION:**

In assessing the work of the students, how much weight do you give each of the following types of assessment?

- A: standardized tests produced outside the school;
- B: teacher-made open-ended tests;
- C: teacher-made multiple-choice tests;
- :
- G: responses of students in class.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2B22A,G	Russia	X	Question not administered or data not internationally comparable.
TQM2B22A-G	Scotland	X	Question not administered or data not internationally comparable.
TQM2B22A	Singapore	X	Question not administered or data not internationally comparable.

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**TQM2B23****QUESTION:**

How often do you use the assessment information you gather from students to...

- A: provide students' grades or marks?
- B: provide feedback to students?
- C: diagnose students' learning problems?
- D: report to parents?
- E: assign students to different programs or tracks?
- F: plan for future lessons?

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQM2B23A	Austria	X	Question not administered or data not internationally comparable.
TQM2B23A-F	Austria	D	Option 1 (None) Not Included.
TQM2B23E	Belgium (Fr)	X	Question not administered or data not internationally comparable.
TQM2B23A-F	Scotland	X	Question not administered or data not internationally comparable.

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# Section 6

Population 2  
Science Teacher Background Questionnaire

**TQS2A3****QUESTION:**

What is the highest level of formal education you have completed?

International response options:

- 1 = <teacher training w/o completing secondary>
- 2 = <secondary only>
- 3 = <secondary + 1 or 2 year teacher training>
- 4 = <secondary and 3 or 4 year teacher training>
- 5 = <BA or equivalent + no teacher training>
- 6 = <BA or equivalent + teacher training>
- 7 = <MA/Ph.D. with no teacher training>
- 8 = <MA/Ph.D. + teacher training>

(Some countries omitted or modified options in accordance with their national systems.)

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2A3	Australia	D	Options 2,5,7 Not Included.
TQS2A3	Austria	X	Question not administered or data not internationally comparable.
TQS2A3	Belgium (Fl)	X	Question not administered or data not internationally comparable.
TQS2A3	Belgium (Fr)	X	Question not administered or data not internationally comparable.
TQS2A3	Canada	D	Options 1 and 2 Not Included.
TQS2A3	Czech Republic	D	Options 1,3,4 Not Included. Modified national options recoded to international categories.
TQS2A3	Denmark	X	Question not administered or data not internationally comparable.
TQS2A3	England	D	Option 6 includes Bachelor of Education and BA plus teacher training. Modified format with national options recoded to international categories.
TQS2A3	Germany	D	Data obtained from ministry.
TQS2A3	Greece	D	Options 1-4 Not Included.
TQS2A3	Hungary	D	Option 1 includes Teacher Training as part of secondary school; Option 3 Not Included. Modified national options recoded to international categories.
TQS2A3	Iceland	D	Option 4 not included. Option 1 combines two options based on older teacher training systems (teacher training as part of secondary education); Option 6 combines Bachelor of Education (B. Ed.) and BA or BS with Teacher Training.
TQS2A3	Iran	D	Options 7 and 8 Not Included.
TQS2A3	Ireland	D	Options 1 and 4 Not Included; Option 6 combines Bachelor of Education (B.Ed.) and BA with Higher Diploma of Education (H.Dip. Ed.).
TQS2A3	Israel	D	Option 1 Not Included.
TQS2A3	Japan	X	Question not administered or data not internationally comparable.
TQS2A3	Korea	D	Options 1,3,4,5,7 Not Included.
TQS2A3	Lithuania	D	Options 1,3,5 Not Included. Modified national options recoded to international categories.
TQS2A3	New Zealand	D	Option 5 includes BA with an education component but no teacher training. Modified national options recoded to international categories.
TQS2A3	Norway	D	Option 1 Not Included. Additional national option for other education coded as invalid.
TQS2A3	Portugal	D	Options 1,2,7,8 Not Included. Modified national options recoded to international categories.
TQS2A3	Romania	D	Option 1 includes teacher training as part of secondary education.
TQS2A3	Russia	D	Asked 8 modified categories; recoded to international categories.
TQS2A3	Scotland	D	Options 1,2,3 Not Included.
TQS2A3	Singapore	D	Option 1 includes General Certificate of Education Ordinary Level (GCE O) with or without teacher training.
TQS2A3	Slovak Republic	D	Option 1 includes teacher training as part of secondary education.
TQS2A3	Spain	D	Option 3 Not Included.
TQS2A3	Sweden	D	Options 1 and 7 not included. Modified national options recoded to international categories; newest form of teacher education not included in national options.
TQS2A3	Switzerland	D	Options 1 and 5 Not Included. Modified national options recoded to international categories.
TQS2A3	Thailand	D	Option 6 includes Bachelor of Education (B.Ed.) and BA + Teacher Training.
TQS2A3	United States	D	Options 1-4 Not Included.

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**TQS2A4****QUESTION:**

Do not teach science this year.  
(This is a filter for 4A-O.)

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2A4	Denmark	X	Filter not asked.
TQS2A4	England	X	Filter not asked.
TQS2A4	Kuwait	X	Filter not asked.
TQS2A4	Scotland	X	Filter not asked.

---

**TQS2A4A-O****QUESTION:**

At which grade levels are you teaching science during this school year?

A: pre-kindergarten;

B: kindergarten;

C: grade 1;

.

O: grade 13.

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2A4A	Australia	X	Grade options not included: Pre-kindergarten.
TQS2A4A,B	Austria	X	Grade options not included: Pre-kindergarten and kindergarten.
TQS2A4A-O	Belgium (Fr)	D	Data obtained from ministry.
TQS2A4O	Colombia	X	Grade options not included: Grade 13.
TQS2A4A,B	Czech Republic	X	Grade options not included: Pre-kindergarten and kindergarten.
TQS2A4A,B,O	Denmark	X	Grade options not included: Pre-kindergarten, kindergarten and grade 13.
TQS2A4O	England	X	Grade options not included: Grade 13.
TQS2A4A,B	Germany	X	Grade options not included: Pre-kindergarten and kindergarten.
TQS2A4A-H,O	Greece	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 6, and grade 13.
TQS2A4A-H	Hong Kong	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 6.
TQS2A4A	Iceland	X	Grade options not included: Pre-kindergarten.
TQS2A4A-G	Iran	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 5.
TQS2A4K-O	Iran	X	Grade options not included: Grade 9 through grade 13.
TQS2A4A-H,O	Ireland	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 6, and grade 13.
TQS2A4O	Korea	X	Grade options not included: Grade 13.
TQS2A4A-J,O	Kuwait	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 8, and grade 13.
TQS2A4A-F,O	Lithuania	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 4, and grade 13.
TQS2A4A-H,O	Netherlands	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 6, and grade 13.
TQS2A4A,B	New Zealand	X	Grade options not included: Pre-kindergarten and kindergarten.
TQS2A4A,B,L-O	Norway	X	Grade options not included: Pre-kindergarten, kindergarten, and grade 10 through grade 13.
TQS2A4O	Portugal	X	Grade options not included: Grade 13.
TQS2A4N,O	Russia	X	Grade options not included: Grade 12 and grade 13.
TQS2A4A-I	Scotland	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 7.
TQS2A4A,O	Slovak Republic	X	Grade options not included: Pre-kindergarten and grade 13.
TQS2A4A,B,K-O	Slovenia	X	Grade options not included: Pre-kindergarten, kindergarten and grade 9 through grade 13.
TQS2A4A	Spain	D	Pre-school for 3-year olds.
TQS2A4B	Spain	D	Combines data for pre-school grades 1 and 2 (4 and 5 year-olds).
TQS2A4O	Spain	X	Grade options not included: Grade 13.
TQS2A4A,O	Sweden	X	Grade options not included: Pre-kindergarten and grade 13.
TQS2A4A-F	Switzerland	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 4.
TQS2A4L-O	Switzerland	X	Grade options not included: Grade 10 through grade 13.
TQS2A4O	United States	X	Question not administered or data not internationally comparable.

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**TQS2A5****QUESTION:**

Do not teach mathematics this year.  
(This is a filter for 5A-O.)

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2A5	Denmark	X	Filter not asked.
TQS2A5	England	X	Filter not asked.
TQS2A5	Kuwait	X	Filter not asked.
TQS2A5	Scotland	X	Filter not asked.

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**TQS2A5A-O****QUESTION:**

At which grade levels are you teaching science during this school year?

A: pre-kindergarten;

B: kindergarten;

C: grade 1;

.

O: grade 13.

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2A5A	Australia	X	Grade options not included: Pre-kindergarten.
TQS2A5A,B	Austria	X	Grade options not included: Pre-kindergarten and kindergarten.
TQS2A5A-O	Belgium (Fr)	D	Data obtained from ministry.
TQS2A5O	Colombia	X	Grade options not included: Grade 13.
TQS2A5A,B	Czech Republic	X	Grade options not included: Pre-kindergarten and kindergarten.
TQS2A5A,B,O	Denmark	X	Grade options not included: Pre-kindergarten, kindergarten and grade 13.
TQS2A5O	England	X	Grade options not included: Grade 13.
TQS2A5A,B	Germany	X	Grade options not included: Pre-kindergarten and kindergarten.
TQS2A5A-H,O	Greece	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 6, and grade 13.
TQS2A5A-H	Hong Kong	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 6.
TQS2A5A	Iceland	X	Grade options not included: Pre-kindergarten.
TQS2A5A-G	Iran	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 5.
TQS2A5K-O	Iran	X	Grade options not included: Grade 9 through grade 13.
TQS2A5A-H,O	Ireland	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 6, and grade 13.
TQS2A5O	Korea	X	Grade options not included: Grade 13.
TQS2A5A-J,O	Kuwait	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 8, and grade 13.
TQS2A5A-F,O	Lithuania	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 4, and grade 13.
TQS2A5A-H,O	Netherlands	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 6, and grade 13.
TQS2A5A,B	New Zealand	X	Grade options not included: Pre-kindergarten and kindergarten.
TQS2A5A,B,L-O	Norway	X	Grade options not included: Pre-kindergarten, kindergarten, grade 10 and grade 13.
TQS2A5O	Portugal	X	Grade options not included: Grade 13.
TQS2A5N,O	Russia	X	Grade options not included: Grade 12 and grade 13.
TQS2A5A-I	Scotland	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 7.
TQS2A5A,O	Slovak Republic	X	Grade options not included: Pre-kindergarten and grade 13
TQS2A5K-O	Slovenia	X	Grade options not included: Grade 9 through grade 13.
TQS2A5A	Spain	D	Pre-school for 3-year olds.
TQS2A5B	Spain	D	Combines data for pre-school grades 1 and 2 (4 and 5 year-olds).
TQS2A5O	Spain	X	Grade options not included: Grade 13.
TQS2A5A,O	Sweden	X	Grade options not included: Pre-kindergarten and grade 13
TQS2A5A-F	Switzerland	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 4.
TQS2A5L-O	Switzerland	X	Grade options not included: Grade 10 through grade 13.
TQS2A5O	United States	X	Grade options not included: Grade 13.



**TQS2A7** **QUESTION:**  
By the end of this year, how many years will you have been teaching?

Questionnaire			
Item ID:	Country:	Code:	Comment:
TQS2A7	England	D	Combined years full-time and years part-time.

**TQS2A8** **QUESTION:**  
At which of these grade levels have you taught in the past 5 years?  
A: pre-kindergarten;  
B: kindergarten;  
C: grade 1;  
:  
O: grade 13.

Questionnaire			
Item ID:	Country:	Code:	Comment:
TQS2A8A	Australia	X	Grade options not included: Pre-kindergarten.
TQS2A8A,B	Austria	X	Grade options not included: Pre-kindergarten and kindergarten.
TQS2A8A-O	Belgium (Fr)	D	Data obtained from ministry.
TQS2A8O	Colombia	X	Grade options not included: Grade 13.
TQS2A8A	Czech Republic	X	Grade options not included: Pre-kindergarten.
TQS2A8A,B,N,O	Denmark	X	Grade options not included: Pre-kindergarten, kindergarten, grade 12 and grade 13.
TQS2A8O	England	X	Grade options not included: Grade 13.
TQS2A8A,B	Germany	X	Grade options not included: Pre-kindergarten and kindergarten.
TQS2A8A-H,O	Greece	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 6, and grade 13.
TQS2A8A-H	Hong Kong	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 6.
TQS2A8A	Iceland	X	Grade options not included: Pre-kindergarten.
TQS2A8A-G	Iran	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 5.
TQS2A8K-O	Iran	X	Grade options not included: Grade 9 through grade 13.
TQS2A8O	Ireland	X	Grade options not included: Grade 13.
TQS2A8O	Korea	X	Grade options not included: Grade 13.
TQS2A8A,B,O	Kuwait	X	Grade options not included: Pre-kindergarten, kindergarten, and grade 13.
TQS2A8A,B,O	Lithuania	X	Grade options not included: Pre-kindergarten, kindergarten and grade 13.
TQS2A8A-H,O	Netherlands	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 6, and grade 13.
TQS2A8A,B	New Zealand	X	Grade options not included: Pre-kindergarten and kindergarten.
TQS2A8A,B,O	Norway	X	Grade options not included: Pre-kindergarten, kindergarten, and grade 13.
TQS2A8O	Portugal	X	Grade options not included: Grade 13.
TQS2A8N,O	Russia	X	Grade options not included: Grade 12 and grade 13.
TQS2A8A-I	Scotland	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 7.
TQS2A8A,O	Slovak Republic	X	Grade options not included: Pre-kindergarten and grade 13.
TQS2A8A	Spain	D	Pre-school for 3-year olds.
TQS2A8B	Spain	D	Combines data for pre-school grades 1 and 2 (4 and 5 year-olds).
TQS2A8O	Spain	X	Grade options not included: Grade 13.
TQS2A8A,O	Sweden	X	Grade options not included: Pre-kindergarten and grade 13..
TQS2A8A,B	Switzerland	X	Grade options not included: Pre-kindergarten and kindergarten.
TQS2A8O	United States	X	Grade options not included: Grade 13.

**TQS2A9****QUESTION:**

How many periods are you scheduled to teach each of the following subjects during the school week?

Internationally-defined options:

- A: mathematics;
- B: general/integrated science;
- C: physical science;
- D: earth science;
- E: life science;
- F: biology;
- G: chemistry;
- H: physics
- I: other subjects.

(Countries to include only those science subjects appropriate in their schools.)

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2A9C-H	Australia	D	Open-ended format for c-h ('other science'); coded to international variables during data entry.
TQS2A9A	Austria	D	Combines 'Mathematics' and 'Geometric Drawing'.
TQS2A9B,E	Austria	X	Subjects not included: General/integrated science and life science.
TQS2A9D	Austria	D	'Geography'
TQS2A9C,E	Belgium (Fl)	X	Subjects not included: Physical science and life science.
TQS2A9C-E	Belgium (Fr)	X	Subjects not included: Physical science, earth science and life science.
TQS2A9B	Colombia	D	Includes 'Natural Sciences'.
TQS2A9C-E	Colombia	X	Subjects not included: Physical science, earth science and life science.
TQS2A9B-D	Cyprus	X	Subjects not included: General/integrated science, physical science and earth science.
TQS2A9E	Cyprus	D	Includes 'Phytology/Zoology'.
TQS2A9C,E	Czech Republic	X	Subjects not included: Physical science and life science.
TQS2A9D	Czech Republic	D	Includes 'Geography'.
TQS2A9B	Denmark	D	Includes data for 'Nature/Technology' taught in grades 1-6 (including biology, physics, chemistry, geography, and technology subjects).
TQS2A9C	Denmark	D	Includes data for 'Physics/Chemistry' taught in grades 7-10.
TQS2A9E,G,H	Denmark	X	Subjects not included: Life science, chemistry and physics.
TQS2A9C,E	England	X	Subjects not included: Physical science and life science.
TQS2A9B,D,E,G,H	France	X	Subjects not included: General/integrated science, earth science, life science, chemistry and physics.
TQS2A9C	France	D	Includes 'Physics/Chemistry'.
TQS2A9F	France	D	Includes 'Biology/Geology'.
TQS2A9C,E	Germany	X	Subjects not included: Physical science and life science.
TQS2A9A-I	Greece	X	Deleted per NRC request.
TQS2A9C-E	Hong Kong	X	Subjects not included: Physical science, earth science and life science.
TQS2A9A-I	Hungary	X	Question not administered or data not internationally comparable.
TQS2A9B-E	Iceland	X	Subjects not included: General/integrated science, physical science, earth science and life science.
TQS2A9A-I	Iran	X	Question not administered or data not internationally comparable.
TQS2A9C,E-H	Ireland	X	Subjects not included: Physical science, life science, biology, chemistry and physics.
TQS2A9C,E	Israel	X	Subjects not included: Physical science and life science.
TQS2A9C-I	Japan	X	Subjects not included: Physical science, earth science, life science, biology, chemistry, physics and other subjects.
TQS2A9E,H	Korea	X	Subjects not included: Life science and physics.
TQS2A9C,E	Kuwait	X	Subjects not included: Physical science and life science.
TQS2A9B,C,E	Lithuania	X	Subjects not included: General/integrated science, physical science and life science.
TQS2A9D	Lithuania	D	Includes 'Geography'.
TQS2A9E	Netherlands	X	Subjects not included: Life science.
TQS2A9I	Netherlands	D	Combines 'Technology' and 'Other Subjects'.
TQS2A9D,E	New Zealand	X	Subjects not included: Earth science and life science.

TQS2A9F	New Zealand	D	Combines 'Human Biology' and 'Other Biology'.
TQS2A9B	Norway	D	Combines two integrated science classes (6.klasse and 7.klasse).
TQS2A9C-E	Norway	X	Subjects not included: Physical science, earth science and life science.
TQS2A9B	Portugal	D	Includes 'Natural Science'.
TQS2A9D-H	Portugal	X	Subjects not included: Earth science, life science, biology, chemistry and physics.
TQS2A9D	Romania	D	Includes 'Geography/Geology'.
TQS2A9C,E	Russia	X	Subjects not included: Physical science and life science.
TQS2A9D	Russia	D	Includes 'Geography'.
TQS2A9D	Scotland	D	Includes 'Geography/Geology'.
TQS2A9E	Scotland	X	Subjects not included: Life science.
TQS2A9F	Scotland	D	Combines 'Human Biology' with 'Other Biology'.
TQS2A9A-I	Singapore	D	Data obtained from ministry based on teachers' personal time tables.
TQS2A9B	Slovak Republic	D	Includes 'Natural History'.
TQS2A9C,E	Slovak Republic	X	Subjects not included: Physical science and life science.
TQS2A9D	Slovak Republic	D	Combines 'Geology' and 'Geography'.
TQS2A9F	Slovak Republic	D	Combines 'Human Biology' and 'Botany/Zoology'.
TQS2A9B-E	Slovenia	X	Subjects not included: General/integrated science, physical science, earth science and life science.
TQS2A9B	Spain	D	Includes 'Natural Sciences'.
TQS2A9C-H	Spain	X	Subjects not included: Physical science, earth science, life science, biology, chemistry and physics.
TQS2A9A,B	Sweden	D	Pertains to 40-minute periods.
TQS2A9C-E	Sweden	X	Subjects not included: Physical science, earth science and life science.
TQS2A9F-I	Sweden	D	Pertains to 40-minute periods.
TQS2A9C,E	Switzerland	X	Subjects not included: Physical science and life science.
TQS2A9D	Switzerland	D	Includes 'Geography'.
TQS2A9F-H	Switzerland	D	Not Included in Italian version.
TQS2A9B	Thailand	D	Combines 'General Science', 'Science Projects' and 'Science Elective'.
TQS2A9D,E	Thailand	X	Subjects not included: Earth science and life science.

#### TQS2A10

#### QUESTION:

How many periods are you scheduled to perform each of the following tasks during the school week?

- A: student supervision;
- B: student counseling/appraisal;
- C: administrative duties;
- D: individual curriculum planning;
- E: cooperative curriculum planning;
- F: other non-student contact time.

#### Questionnaire

Item ID:	Country:	Code:	Comment:
TQS2A10A-F	Austria	X	Question not administered or data not internationally comparable.
TQS2A10A-F	Denmark	X	Deleted per NRC request.
TQS2A10A-F	Greece	X	Deleted per NRC request.
TQS2A10E	Hungary	X	Question not administered or data not internationally comparable.
TQS2A10E	Kuwait	X	Question not administered or data not internationally comparable.
TQS2A10A-F	Netherlands	X	Question not administered or data not internationally comparable.
TQS2A10D-F	Norway	X	Question not administered or data not internationally comparable.
TQS2A10A-F	Russia	X	Not asked; all formally-scheduled time is teaching.
TQS2A10A-F	Scotland	X	Question not administered or data not internationally comparable.
TQS2A10C-E	Singapore	X	Question not administered or data not internationally comparable.
TQS2A10F	Singapore	D	Data obtained from ministry based on teachers' personal time tables.
TQS2A10A-F	Sweden	D	Pertains to 40-minute periods.

<b>TQS2A11</b>	<b>QUESTION:</b>		
	For how many single <hours/periods> are you <scheduled/time tabled> in one school week altogether?		
<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2A11	Denmark	X	Deleted per NRC request.
TQS2A11	Hungary	X	Question not administered or data not internationally comparable.
TQS2A11	Sweden	D	Pertains to 40-minute periods.

<b>TQS2A12</b>	<b>QUESTION:</b>		
	How many hours per week do you normally spend on each of the following activities outside the formal school day? A: preparing or grading exams; B: reading or grading other student work; C: planning lessons by yourself; : H: administrative tasks including staff meetings.		
<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2A12A-H	Austria	D	Option 5 (More than 4 hours) = Combined '5-6 hours' and 'more than 6 hours'.
TQS2A12A-H	Denmark	X	Deleted per NRC request.

<b>TQS2A13</b>	<b>QUESTION:</b>		
	How often do you have meetings with other teachers in your subject area to discuss and plan curriculum or teaching approaches?		
<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2A13	Australia	D	Option 4 (Once a month) includes 'once/month' and 'once/fortnight'.
TQS2A13	Denmark	X	Deleted per NRC request.
TQS2A13	England	D	Modified: asked about teachers in own school and other schools;" calculated as sum.
TQS2A13	Singapore	D	Modified: Option 3 (Every other month) = 'Once/Term'.

<b>TQS2A14</b>	<b>QUESTION:</b>		
	How much influence do you have on each of the following... A: subject matter to be taught; B: textbooks to be used; C: the amount of money to be spent on supplies; D: what supplies are purchased.		
<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2A14A-D	England	X	Question not administered or data not internationally comparable.
TQS2A14A-D	Israel	X	Question not administered or data not internationally comparable.

<b>TQS2A15</b>	<b>QUESTION:</b>		
	To be good at science, how important do you think it is for students to... A: remember formulas and procedures; B: think in a sequential & procedural manner; C: understand science concepts; : F: be able to provide reasons to support their solutions.		
<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2A15A-F	Scotland	X	Question not administered or data not internationally comparable.

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**TQS2A16****QUESTION:**

To what extent do you agree or disagree with each of the following statements?

A: Science is primarily an abstract subject.

B: Science is primarily a formal way of representing the real world.

C: Science is primarily a practical and structured guide for addressing real situations.

D: Some students have a natural talent for science and other do not.

:

I: A liking for and understanding of students are essential for teaching science.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2A16D	England	X	Question not administered or data not internationally comparable.
TQS2A16I	England	X	Question not administered or data not internationally comparable.
TQS2A16I	Hungary	X	Question not administered or data not internationally comparable.
TQS2A16A-I	Scotland	X	Question not administered or data not internationally comparable.

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**TQS2A17****QUESTION:**

Indicate your familiarity with each of the following documents:

A: <The National Curriculum Guide for Science>

B: <The Regional Curriculum Guide for Science>

C: <The School Curriculum Guide>

D: <The National Examination Specifications>

E: <The Regional Examination Specifications>

F: <The National Pedagogy Guide for Science>

G: <The Regional Pedagogy Guide for Science>.

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2A17D,F,G	Australia	X	Questions about these documents not included.
TQS2A17E-G	Austria	X	Questions about these documents not included.
TQS2A17A,C	Belgium (Fl)	D	Questions asked but response option 1 (No Such Document) Not Included.
TQS2A17B,D-G	Belgium (Fl)	X	Questions about these documents not included.
TQS2A17A	Belgium (Fr)	D	Questions asked but response option 1 (No Such Document) Not Included.
TQS2A17B-G	Belgium (Fr)	X	Questions about these documents not included.
TQS2A17A,D,E,G	Canada	X	Questions about these documents not included.
TQS2A17B	Canada	D	Provincial Curriculum Guide
TQS2A17F	Canada	D	National Science Standards; administered only in English version.
TQS2A17E-G	Colombia	X	Questions about these documents not included.
TQS2A17A	Cyprus	D	National Curriculum guide for 'Gymnasium'.
TQS2A17B-G	Cyprus	X	Questions about these documents not included.
TQS2A17D,E	Czech Republic	X	Questions about these documents not included.
TQS2A17A-G	Denmark	X	Deleted per NRC request.
TQS2A17A-G	England	X	Questions about these documents not included.
TQS2A17B,C,E,G	France	X	Questions about these documents not included.
TQS2A17B	Germany	X	Questions about these documents not included.
TQS2A17B-E,G	Greece	X	Questions about these documents not included.
TQS2A17B,E-G	Hong Kong	X	Questions about these documents not included.
TQS2A17B,E,G	Hungary	X	Questions about these documents not included.
TQS2A17E,G	Iceland	X	Questions about these documents not included.
TQS2A17B,C,E,G	Iran	X	Questions about these documents not included.
TQS2A17B-G	Ireland	X	Questions about these documents not included.
TQS2A17B,C,E-G	Kuwait	X	Questions about these documents not included.
TQS2A17A-C,E-G	Netherlands	X	Questions about these documents not included.
TQS2A17D	Netherlands	D	Questions asked but response option 1 (No Such Document) Not Included.
TQS2A17E-G	Norway	X	Questions about these documents not included.
TQS2A17A	Portugal	D	Combines two questions: National Curriculum for Natural and Physical/Chemical Sciences and official documents relating to curriculum implementation.
TQS2A17B,E-G	Portugal	X	Questions about these documents not included.
TQS2A17A-G	Scotland	X	Questions about these documents not included.
TQS2A17A	Slovak Republic	D	Combines data from 2 options related to national curriculum guide.
TQS2A17B,E,G	Slovak Republic	X	Questions about these documents not included.
TQS2A17F	Slovenia	X	Questions about these documents not included.
TQS2A17B-G	Spain	X	Questions about these documents not included.
TQS2A17A	Sweden	D	Combines data from two questions relating to national curriculum guides (in parts a and b).
TQS2A17B,D,E	Sweden	X	Questions about these documents not included.
TQS2A17D,F,G	Switzerland	X	Questions about these documents not included.
TQS2A17A	United States	D	No national curricula exist; includes data for American Association for the Advancement of Science (AAAS) Benchmarks for Science Literacy.
TQS2A17B	United States	D	Includes data for State Education Department Curriculum Guide.
TQS2A17C	United States	D	Includes data for School Curriculum Guide; national option for School District Curriculum Guide not included in international database.

TQS2A17D	United States	D	Includes data for the National Assessment of Educational Progress (NAEP) Assessment Frameworks/Specifications.
TQS2A17E	United States	D	Includes data for State Education Department Assessment Specifications.
TQS2A17F,G	United States	X	Questions about these documents not included.

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**TQS2A18**
**QUESTION:**

How well prepared do you feel you are to teach...

A: earth's features;

B: energy;

C: light;

:

I: organizing, representing and interpreting data, making conclusions.

---

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQS2A18A-I	England	X	Question not administered or data not internationally comparable.
TQS2A18A-I	Germany	X	Question not administered or data not internationally comparable.
TQS2A18A-I	Netherlands	X	Question not administered or data not internationally comparable.
TQS2A18A-I	Russia	X	Question not administered or data not internationally comparable.

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**TQS2A19**
**QUESTION:**

Was teaching your first choice as a career when beginning university?

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQS2A19	Denmark	X	Question not administered or data not internationally comparable.
TQS2A19	France	X	Question not administered or data not internationally comparable.
TQS2A19	Hong Kong	X	Question not administered or data not internationally comparable.
TQS2A19	Iran	X	Question not administered or data not internationally comparable.
TQS2A19	Japan	X	Question not administered or data not internationally comparable.
TQS2A19	Netherlands	X	Question not administered or data not internationally comparable.
TQS2A19	Norway	X	Question not administered or data not internationally comparable.
TQS2A19	Scotland	X	Question not administered or data not internationally comparable.
TQS2A19	Singapore	X	Question not administered or data not internationally comparable.
TQS2A19	Sweden	X	Question not administered or data not internationally comparable.
TQS2A19	United States	X	Question not administered or data not internationally comparable.

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**TQS2A20**
**QUESTION:**

Would you change to another career if you had the opportunity?

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQS2A20	Denmark	X	Question not administered or data not internationally comparable.
TQS2A20	France	X	Question not administered or data not internationally comparable.
TQS2A20	Hong Kong	X	Question not administered or data not internationally comparable.
TQS2A20	Iran	X	Question not administered or data not internationally comparable.
TQS2A20	Japan	X	Question not administered or data not internationally comparable.
TQS2A20	Netherlands	X	Question not administered or data not internationally comparable.
TQS2A20	Norway	X	Question not administered or data not internationally comparable.
TQS2A20	Scotland	X	Question not administered or data not internationally comparable.
TQS2A20	Singapore	X	Question not administered or data not internationally comparable.
TQS2A20	Sweden	X	Question not administered or data not internationally comparable.
TQS2A20	United States	X	Question not administered or data not internationally comparable.

**TQS2A21****QUESTION:**

Do you think that society appreciates your work?

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2A21	Denmark	X	Question not administered or data not internationally comparable.
TQS2A21	France	X	Question not administered or data not internationally comparable.
TQS2A21	Hong Kong	X	Question not administered or data not internationally comparable.
TQS2A21	Iran	X	Question not administered or data not internationally comparable.
TQS2A21	Japan	X	Question not administered or data not internationally comparable.
TQS2A21	Netherlands	X	Question not administered or data not internationally comparable.
TQS2A21	Norway	X	Question not administered or data not internationally comparable.
TQS2A21	Scotland	X	Question not administered or data not internationally comparable.
TQS2A21	Singapore	X	Question not administered or data not internationally comparable.
TQS2A21	Sweden	X	Question not administered or data not internationally comparable.
TQS2A21	United States	X	Question not administered or data not internationally comparable.

**TQS2A22****QUESTION:**

Do you think your students appreciate your work?

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2A22	Denmark	X	Question not administered or data not internationally comparable.
TQS2A22	France	X	Question not administered or data not internationally comparable.
TQS2A22	Hong Kong	X	Question not administered or data not internationally comparable.
TQS2A22	Iran	X	Question not administered or data not internationally comparable.
TQS2A22	Ireland	X	Question not administered or data not internationally comparable.
TQS2A22	Japan	X	Question not administered or data not internationally comparable.
TQS2A22	Netherlands	X	Question not administered or data not internationally comparable.
TQS2A22	Norway	X	Question not administered or data not internationally comparable.
TQS2A22	Scotland	X	Question not administered or data not internationally comparable.
TQS2A22	Singapore	X	Question not administered or data not internationally comparable.
TQS2A22	Sweden	X	Question not administered or data not internationally comparable.
TQS2A22	United States	X	Question not administered or data not internationally comparable.



**TQS2A23****QUESTION:**

Approximately how many books are in your home?

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQS2A23	Austria	X	Question not administered or data not internationally comparable.
TQS2A23	Denmark	X	Question not administered or data not internationally comparable.
TQS2A23	England	X	Question not administered or data not internationally comparable.
TQS2A23	France	X	Question not administered or data not internationally comparable.
TQS2A23	Germany	X	Question not administered or data not internationally comparable.
TQS2A23	Hong Kong	X	Question not administered or data not internationally comparable.
TQS2A23	Iran	X	Question not administered or data not internationally comparable.
TQS2A23	Ireland	X	Question not administered or data not internationally comparable.
TQS2A23	Japan	X	Question not administered or data not internationally comparable.
TQS2A23	Netherlands	X	Question not administered or data not internationally comparable.
TQS2A23	Norway	X	Question not administered or data not internationally comparable.
TQS2A23	Scotland	X	Question not administered or data not internationally comparable.
TQS2A23	Singapore	X	Question not administered or data not internationally comparable.
TQS2A23	Sweden	X	Question not administered or data not internationally comparable.
TQS2A23	Switzerland	X	Question not administered or data not internationally comparable.
TQS2A23	United States	X	Question not administered or data not internationally comparable.

**TQS2A24****QUESTION:**

Please rank the following professions in order of social status.

- A: accountant;  
 B: medical doctor;  
 C: lawyer;  
 :  
 H: teacher, secondary school;  
 I: unskilled worker.

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQS2A24H	Austria	X	Question not administered or data not internationally comparable.
TQS2A24A-I	Denmark	X	Question not administered or data not internationally comparable.
TQS2A24A-I	England	D	Occupations presented in randomized order; recoded to match international version.
TQS2A24A-I	France	X	Question not administered or data not internationally comparable.
TQS2A24A-I	Germany	X	Question not administered or data not internationally comparable.
TQS2A24A-I	Hong Kong	X	Question not administered or data not internationally comparable.
TQS2A24A-I	Iran	X	Question not administered or data not internationally comparable.
TQS2A24A-I	Japan	X	Question not administered or data not internationally comparable.
TQS2A24A-I	Netherlands	X	Question not administered or data not internationally comparable.
TQS2A24A-I	Norway	X	Question not administered or data not internationally comparable.
TQS2A24A-I	Scotland	X	Question not administered or data not internationally comparable.
TQS2A24A-I	Singapore	X	Question not administered or data not internationally comparable.
TQS2A24A-I	Sweden	X	Question not administered or data not internationally comparable.
TQS2A24A-I	United States	X	Question not administered or data not internationally comparable.

**TQS2B1****QUESTION:**

1. How many boys are in your science class?
2. How many girls are in your science class?

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQS2B1	Singapore	D	Data obtained from ministry.

**TQS2B2****QUESTION:**

What percent of students in your class have:  
 A: high achievement levels (i.e. in the top third nationally) ;  
 B: middle achievement levels (middle third nationally);  
 C: low achievement levels ( bottom third nationally).

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQS2B2A-C	Austria	X	Question not administered or data not internationally comparable.
TQS2B2A-C	England	X	Question not administered or data not internationally comparable.
TQS2B2A-C	Japan	X	Question not administered or data not internationally comparable.
TQS2B2A-C	Netherlands	X	Question not administered or data not internationally comparable.
TQS2B2A-C	Scotland	X	Question not administered or data not internationally comparable.

**TQS2B3****QUESTION:**

How many minutes per week do you teach science to your class?

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQS2B3	Austria	D	Computed from number of lessons/week and duration.
TQS2B3	Denmark	X	Deleted per NRC request.
TQS2B3	England	D	Linking problems with multiple teachers/class; data kept in international variable but not included in report variable.
TQS2B3	Iran	X	Deleted data per NRC request.
TQS2B3	Singapore	D	Data obtained from ministry; derived from school questionnaire data.

**TQS2B4****QUESTION:**

Do you use a textbook in teaching science to your class?  
 (This is a filter for B4/1 and B4/2.)

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQS2B4	Slovak Republic	X	Filter not administered.

**TQS2B4/1****QUESTION:**

Do you use &lt;text&gt; (1A-1J) in your class?

(List of textbooks specific to each country; documentation of national options not available.)

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2B4/1A-1J	Australia	X	Question not administered or data not internationally comparable.
TQS2B4/1A-1J	Belgium (Fl)	X	Question not administered or data not internationally comparable.
TQS2B4/1A-1J	Belgium (Fr)	X	Question not administered or data not internationally comparable.
TQS2B4/1A-1J	Canada	X	Question not administered or data not internationally comparable.
TQS2B4/1E-1J	Colombia	X	Question not administered or data not internationally comparable.
TQS2B4/1E-1J	Cyprus	X	Question not administered or data not internationally comparable.
TQS2B4/1E-1J	Czech Republic	X	Question not administered or data not internationally comparable.
TQS2B4/1A-1J	Denmark	X	Question not administered or data not internationally comparable.
TQS2B4/1A-1J	France	X	Question not administered or data not internationally comparable.
TQS2B4/1A-1J	Germany	X	Question not administered or data not internationally comparable.
TQS2B4/1C-1J	Greece	X	Question not administered or data not internationally comparable.
TQS2B4/1A-1J	Hong Kong	X	Question not administered or data not internationally comparable.
TQS2B4/1A-1J	Hungary	X	Question not administered or data not internationally comparable.
TQS2B4/1A-1J	Iceland	X	Question not administered or data not internationally comparable.
TQS2B4/1A-1J	Iran	X	Question not administered or data not internationally comparable.
TQS2B4/1D-1J	Ireland	X	Question not administered or data not internationally comparable.
TQS2B4/1F-1J	Israel	X	Question not administered or data not internationally comparable.
TQS2B4/1F-1J	Japan	X	Question not administered or data not internationally comparable.
TQS2B4/1D-1J	Kuwait	X	Question not administered or data not internationally comparable.
TQS2B4/1A-1J	Lithuania	X	Question not administered or data not internationally comparable.
TQS2B4/1A-1J	New Zealand	X	Question not administered or data not internationally comparable.
TQS2B4/1A-1J	Norway	X	Question not administered or data not internationally comparable.
TQS2B4/1A-1J	Portugal	X	Question not administered or data not internationally comparable.
TQS2B4/1E-1J	Romania	X	Question not administered or data not internationally comparable.
TQS2B4/1A-1J	Russia	X	Question not administered or data not internationally comparable.
TQS2B4/1E-1J	Scotland	X	Question not administered or data not internationally comparable.
TQS2B4/1A-1J	Singapore	X	Question not administered or data not internationally comparable.
TQS2B4/1B-1J	Slovenia	X	Question not administered or data not internationally comparable.
TQS2B4/1A-1J	Spain	X	Question not administered or data not internationally comparable.
TQS2B4/1A-1J	Sweden	X	Question not administered or data not internationally comparable.
TQS2B4/1A-1J	Switzerland	X	Question not administered or data not internationally comparable.
TQS2B4/1A-1J	Thailand	X	Question not administered or data not internationally comparable.
TQS2B4/1D-1J	United States	X	Question not administered or data not internationally comparable.

**TQS2B4/2****QUESTION:**

Name of textbook.  
(Open-ended format; coded during data entry. Identification of nationally-defined textbook codes not available.)

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2B4/2	Belgium (Fl)	X	Question not administered or data not internationally comparable.
TQS2B4/2	Cyprus	X	Question not administered or data not internationally comparable.
TQS2B4/2	Czech Republic	X	Question not administered or data not internationally comparable.
TQS2B4/2	Denmark	X	Question not administered or data not internationally comparable.
TQS2B4/2	England	X	Question not administered or data not internationally comparable.
TQS2B4/2	Greece	X	Question not administered or data not internationally comparable.
TQS2B4/2	Hungary	X	Question not administered or data not internationally comparable.
TQS2B4/2	Iceland	X	Question not administered or data not internationally comparable.
TQS2B4/2	Iran	X	Question not administered or data not internationally comparable.
TQS2B4/2	Ireland	X	Question not administered or data not internationally comparable.
TQS2B4/2	Kuwait	X	Question not administered or data not internationally comparable.
TQS2B4/2	Romania	X	Question not administered or data not internationally comparable.
TQS2B4/2	Russia	X	Question not administered or data not internationally comparable.
TQS2B4/2	Slovak Republic	X	Question not administered or data not internationally comparable.
TQS2B4/2	Slovenia	X	Question not administered or data not internationally comparable.
TQS2B4/2	Thailand	X	Question not administered or data not internationally comparable.

**TQS2B5****QUESTION:**

What percentage of your teaching time is based on the text?

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2B5	Slovak Republic	X	Question not administered or data not internationally comparable.

**TQS2B6****QUESTION:**

What do you use in the place of or in addition to a textbook?

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2B6	Austria	X	Question not administered or data not internationally comparable.
TQS2B6	Cyprus	X	Question not administered or data not internationally comparable.
TQS2B6	Denmark	X	Deleted per NRC request.
TQS2B6	England	X	Deleted per NRC request.
TQS2B6	Iceland	X	Question not administered or data not internationally comparable.
TQS2B6	New Zealand	X	Question not administered or data not internationally comparable.
TQS2B6	Norway	X	Question not administered or data not internationally comparable.
TQS2B6	Slovak Republic	X	Question not administered or data not internationally comparable.
TQS2B6	Thailand	X	Question not administered or data not internationally comparable.

**TQS2B7****QUESTION:**

In your view to what extent do the following limit how you teach your science class?

- A: students with different academic abilities;
- B: students from a wide range of backgrounds;
- C: students with special needs;
- D: uninterested students;
- E: disruptive students;
- F: parents interested in their children's learning and progress;
- G: parents uninterested in their children's learning and progress;
- H: shortage of computer hardware;
- I: shortage of computer software;
- J: shortage of other instructional equipment for students' use;
- K: shortage of equipment for your use in demonstrations and other exercises
- L: inadequate physical facilities;
- M: high student/teacher ratio;
- N: low morale among fellow teachers/administrators;
- O: low morale among students;
- P: threats to personal safety or the safety of students.

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQS2B7F	France	X	Question not administered or data not internationally comparable.
TQS2B7B,C,E,G	Japan	X	Question not administered or data not internationally comparable.
TQS2B7L,N-P	Japan	X	Question not administered or data not internationally comparable.

**TQS2B8****QUESTION:**

How many of your students have access to calculators during science lessons?

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQS2B8	Austria	D	Modified options: 1 = '100%'; 2 = '>75%'; 3 = '>50%'; 4 = '>25% or <25%'; 5 = 'none'.
TQS2B8	Hungary	X	Question not administered or data not internationally comparable.

**TQS2B9****QUESTION:**

How often do your students in your science class use calculators for the following activities?

- A: checking answers;
- B: tests & exams;
- C: routine computation;
- D: solving complex problems;
- E: exploring number concepts.

**Questionnaire**

Item ID:	Country:	Code:	Comment:
TQS2B9D,E	Norway	X	Question not administered or data not internationally comparable.
TQS2B9A-E	Scotland	X	Question not administered or data not internationally comparable.

<b>TQS2B10</b>		<b>QUESTION:</b>	
When planning science lessons, how much do you rely on:			
A: your own previously prepared lessons;			
B: a written plan compiled by teachers in the school;			
C: other teachers or science specialists in your school;			
D: student textbooks;			
E: other textbooks or resource books;			
F: teacher guides or teacher edition of textbooks;			
G: external examinations or standardized tests.			
<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2B10G	Belgium (Fl)	X	Question not administered or data not internationally comparable.
TQS2B10F,G	Belgium (Fr)	X	Question not administered or data not internationally comparable.
TQS2B10A-G	Scotland	X	Question not administered or data not internationally comparable.

<b>TQS2B11</b>		<b>QUESTION:</b>	
In planning science lessons, what is your main source of written information when...			
A: deciding which topics to teach;			
B: deciding how to present a topic;			
C: selecting problems & exercises for work in class and homework;			
D: selecting problems and applications for assessment and evaluation.			
International response options:			
1 = other resource books			
2 = student edition of textbook			
3 = teacher edition of textbook			
4 = <School Curriculum Guide>			
5 = <National or Regional Curriculum Guide>			
6 = <National or Regional Examination Specifications>			
<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2B11A-D	Australia	D	Option 6 Not Included.
TQS2B11A-D	Belgium (Fl)	D	Option 6 Not Included.
TQS2B11A-D	Belgium (Fr)	D	Options 3, 4 and 6 Not Included.
TQS2B11A-D	Canada	X	Question not administered or data not internationally comparable.
TQS2B11A-D	Czech Republic	D	Option 6 Not Included.
TQS2B11A-D	Denmark	X	Deleted per NRC request.
TQS2B11A-D	England	D	Option 1 combines subject association materials and other resource materials; Option 6 Not Included. (Note: omitted from report variable.)
TQS2B11A-D	Germany	D	Option 6 Not Included.
TQS2B11A-D	Greece	D	Option 6 Not Included.
TQS2B11A-D	Iran	D	Option 4 Not Included.
TQS2B11A-D	Ireland	D	Option 6 Not Included.
TQS2B11A-D	Kuwait	D	Options 4,5,6 Not Included.
TQS2B11A-D	Netherlands	D	Option 5 Not Included; Option 6 combines two questions about exam specs.
TQS2B11A-D	Norway	D	Option 6 Not Included.
TQS2B11A-D	Portugal	D	Options 4 and 6 Not Included; Option 5 combines two questions related to national curriculum guide.
TQS2B11A-D	Spain	D	Options 4,5,6 Not Included.
TQS2B11A-D	Sweden	D	Options 4 and 6 Not Included. Option 5 combines two options pertaining to National Curriculum Guides.
TQS2B11A-D	Switzerland	D	Option 3 Not Included in Italian version.
TQS2B11A-D	United States	D	Option 4 = School Curriculum Guide; Option 5 = State or School District Curriculum Guide; Option 6 = the National Assessment of Educational Progress (NAEP) or Statewide Assessment Guidelines.

<b>TQS2B12</b>	<b>QUESTION:</b> How long did you spend teaching each of these topics to your science class this year? Will you cover any of these topics in future <periods>? A: earth features; B: earth processes; C: earth in the universe; : X: data analysis. (Note: Documentation on any national modifications made to science topics not available.)
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Questionnaire Item ID:	Country:	Code:	Comment:
TQS2B12A-X4C	Austria	D	Extra response categories coded to international categories.
TQS2B12A-X4C	England	X	Question not administered or data not internationally comparable.
TQS2B12F-FC	France	X	Question not administered or data not internationally comparable.
TQS2B12A-X4C	Russia	D	Data obtained from ministry.
TQS2B12A-X4C	Scotland	X	Question not administered or data not internationally comparable.
TQS2B12A-X4C	Singapore	D	Data obtained from ministry.

<b>TQS2B13</b>	<b>QUESTION:</b> Think of the last <lesson> in which you taught science. A: How many minutes was the lesson? B: For each of the following science topics, indicate if it was the subject of this lesson. 1) earth features; 2) earth processes; 3) earth in the universe; : 22) nature of science. : G: Was there a separate laboratory session associated with this class period? H: If yes, how many minutes were given to a this laboratory session? (Note: Documentation on any national modifications made to science topics not available.)
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Questionnaire Item ID:	Country:	Code:	Comment:
TQS2B13B01-B22	Austria	X	Question not administered or data not internationally comparable.
TQS2B13A	Denmark	D	Asked about single/double lessons; all values equal to 45 or 90 minutes.
TQS2B13A-H	England	X	Question not administered or data not internationally comparable.
TQS2B13G,H	Germany	X	Question not administered or data not internationally comparable.
TQS2B13G,H	Norway	X	Question not administered or data not internationally comparable.
TQS2B13A-H	Scotland	X	Question not administered or data not internationally comparable.

<b>TQS2B14</b>	<b>QUESTION:</b> How did the lesson proceed? A: The order in which the activities listed took place and approximate number of minutes for each activity lasted: AA1) review of previous lesson(s); AB1) a short quiz or test to review previous lesson; : AK1) student laboratory or data collection activity. B: In this class did the students work in small groups?
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Questionnaire Item ID:	Country:	Code:	Comment:
TQS2B14B	Austria	X	Question not administered or data not internationally comparable.
TQS2B14A01-11	England	X	Question not administered or data not internationally comparable.
TQS2B14B	England	X	Question not administered or data not internationally comparable.
TQS2B14A01-11	Scotland	X	Question not administered or data not internationally comparable.
TQS2B14B	Scotland	X	Question not administered or data not internationally comparable.

<b>TQS2B15</b>		<b>QUESTION:</b>	
In your science lessons, how often do you ask students to do each of the following? A: explain reasoning behind an idea; B: represent & analyze relationships using tables, charts, or graphs; C: work on problems for which there is no immediately obvious method of solution; D: use computers to solve exercises or problems; E: write explanations about what was observed and why it happened; F: put events of objects in order and give a reason for the organization.			
<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2B15D	Hungary	X	Question not administered or data not internationally comparable.
TQS2B15A-F	Scotland	X	Question not administered or data not internationally comparable.

<b>TQS2B16</b>		<b>QUESTION:</b>	
In your science lessons, how frequently do you do the following when a student gives an incorrect response? A: correct the student in front of the class; B: ask the student another question to help him or her get the correct response; C: call on a student who's likely to give the correct response; D: call on other students to get their responses & then discuss what is correct.			
<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2B16A-D	Scotland	X	Question not administered or data not internationally comparable.

<b>TQS2B18</b>		<b>QUESTION:</b>	
How often do you assign science homework?			
<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2B18	Austria	X	Question not administered or data not internationally comparable.
TQS2B18	Germany	D	Option 5 (Every day) = 'Every Lesson'.
TQS2B18	Hungary	D	Option 4 (3 or 4 times a week) combines '3-4 lessons/week' and 'every lesson'; Option 5 (Every day) Not Included.
TQS2B18	Switzerland	D	Option 5 (Every day)= 'Every Lesson'.

<b>TQS2B19</b>		<b>QUESTION:</b>	
If you assign science homework, how many minutes of homework do you usually assign your students?			
<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2B19	Austria	X	Question not administered or data not internationally comparable.

<b>TQS2B20</b>		<b>QUESTION:</b>	
If you assign science homework, how often do you assign each of the following kinds of tasks? A: worksheets for homework; B: problem/question sets in textbook; C: reading in a textbook or supplementary materials; : J: keeping a journal.			
<b>Questionnaire</b>			
<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
TQS2B20A-J	Austria	X	Question not administered or data not internationally comparable.
TQS2B20A-J	Belgium (Fr)	D	Option 5 (I do not assign homework) Not Included; derived from TQM(S)2-B19 Option 1.
TQS2B20A-J	Scotland	X	Question not administered or data not internationally comparable.



**TQS2B21**      **QUESTION:**  
 If students are assigned written science homework, how often do you do the following?  
 A: record whether or not homework was completed;  
 B: collect, correct and keep homework assignments;  
 C: collect, correct and return homework assignments;  
 :  
 H: use it to contribute towards students' grades or marks.

Questionnaire Item ID:	Country:	Code:	Comment:
TQS2B21A-H	Austria	X	Question not administered or data not internationally comparable.
TQS2B21A-H	Belgium (Fr)	D	Option 5 (I do not assign homework) Not Included; derived from TQM(S)2-B19 Option 1.
TQS2B21A	England	X	Data not available.
TQS2B21A-H	Scotland	X	Question not administered or data not internationally comparable.

**TQS2B22**      **QUESTION:**  
 In assessing the work of the students, how much weight do you give each of the following types of assessment?  
 A: standardized tests produced outside the school;  
 B: teacher-made open-ended tests;  
 C: teacher-made multiple-choice tests;  
 :  
 G: responses of students in class.

Questionnaire Item ID:	Country:	Code:	Comment:
TQS2B22A,G	Russia	X	Question not administered or data not internationally comparable.
TQS2B22A-G	Scotland	X	Question not administered or data not internationally comparable.
TQS2B22A	Singapore	X	Question not administered or data not internationally comparable.

**TQS2B23**      **QUESTION:**  
 How often do you use the assessment information you gather from students to...  
 A: provide students' grades or marks?  
 B: provide feedback to students?  
 C: diagnose students' learning problems?  
 D: report to parents?  
 E: assign students to different programs or tracks?  
 F: plan for future lessons?

Questionnaire Item ID:	Country:	Code:	Comment:
TQS2B23A	Austria	X	Question not administered or data not internationally comparable.
TQS2B23A-F	Austria	D	Option 1 (None) Not Included.
TQS2B23E	Belgium (Fr)	X	Question not administered or data not internationally comparable.
TQS2B23A-F	Scotland	X	Question not administered or data not internationally comparable.

# Section 7

Population 2  
School Background Questionnaire

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**SCQ2-1****QUESTION:**

In what type of community is your school located?

1. A geographically isolated area;
2. Village or rural (farm) area;
3. One of the outskirts of a town/city;
4. One close to the center of a town/city.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ2-1	Australia	D	Modified options recoded to international categories: 2 = 'Small Rural Centre' or 'Small Country Town'; 3 = 'Semi-Rural/Outer Metropolitan or Suburban Area'; 4 = 'Country/Provincial Town or Inner Suburban Area'.
SCQ2-1	Kuwait	X	Question not administered or data not internationally comparable.
SCQ2-1	Netherlands	D	Option 1 (a geographically isolated area) Not Included.
SCQ2-1	Singapore	D	Data obtained from ministry.

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**SCQ2-2****QUESTION:**

Which of the following grade levels are found in your school?

A: pre-kindergarten;

B: kindergarten;

C: grade 1;

.

O: grade 13.

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ2-2A	Australia	X	Grade options not included: Pre-kindergarten.
SCQ2-2A-H	Belgium (Fr)	X	Grade options not included: Pre-kindergarten, kindergarten, and grade 1 through grade 6.
SCQ2-2N,O	Colombia	X	Grade options not included: Grade 12 and grade 13.
SCQ2-2A,M-O	Denmark	X	Grade options not included: Pre-kindergarten, and grade 11 through grade 13.
SCQ2-2O	England	X	Grade options not included: Grade 13.
SCQ2-2A,B	Germany	X	Grade options not included: Pre-kindergarten and kindergarten.
SCQ2-2A-H,L-O	Greece	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 6, and grade 10 through grade 13.
SCQ2-2A,B,J-O	Hong Kong	X	Grade options not included: Pre-kindergarten, kindergarten, grade 8 through grade 13.
SCQ2-2A	Iceland	X	Grade options not included: Pre-kindergarten.
SCQ2-2A-E,K-O	Iran	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 3, and grade 9 through grade 13.
SCQ2-2A-H,O	Ireland	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 6, and grade 13.
SCQ2-2A-O	Japan	X	Question not administered or data not internationally comparable.
SCQ2-2O	Kuwait	X	Grade options not included: Grade 13.
SCQ2-2O	Latvia	X	Grade options not included: Grade 13.
SCQ2-2A,B,O	Lithuania	X	Grade options not included: Pre-kindergarten, kindergarten, and grade 13.
SCQ2-2A-H,O	Netherlands	X	Grade options not included: Pre-kindergarten, kindergarten, grade 1 through grade 6, and grade 13.
SCQ2-2A,B	New Zealand	X	Grade options not included: Pre-kindergarten and kindergarten.
SCQ2-2A,L-O	Norway	X	Grade options not included: Pre-kindergarten, and grade 10 through grade 13.
SCQ2-2O	Portugal	X	Grade options not included: Grade 13.
SCQ2-2A-E	Scotland	X	Grade options not included: Pre-kindergarten, kindergarten, and grade 1 through grade 3.
SCQ2-2F-O	Scotland	D	Data obtained from ministry.
SCQ2-2A-O	Singapore	D	Data obtained from ministry.
SCQ2-2O	Slovak Republic	X	Grade options not included: Grade 13.
SCQ2-2K-O	Slovenia	X	Grade options not included: Grade 9 through grade 13.
SCQ2-2A	Spain	D	Pre-school for 3-year olds.
SCQ2-2B	Spain	D	Combines two pre-school grades 1 and 2 (4 and 5 year-olds).
SCQ2-2A,O	Sweden	X	Grade options not included: Pre-kindergarten and grade 13.
SCQ2-2O	Thailand	X	Grade options not included: Grade 13.
SCQ2-2O	United States	X	Grade options not included: Grade 13.

**SCQ2-3****QUESTION:**

How many of the following are on the staff of your school (in FTE- full time equivalents)?

International options:

- A: principals;
- B: assistant principals;
- C: department heads;
- D: classroom teachers;
- E: teacher aides;
- F: laboratory technicians;
- G: learning specialists;
- H: other professional staff.

(Some countries omitted options not appropriate in their schools.)

<b>Questionnaire Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ2-3E,F	Austria	X	School staff options not included: teacher aides and laboratory technicians.
SCQ2-3C,E,G	Belgium (Fl)	X	School staff options not included: department heads, teacher aides and learning specialists.
SCQ2-3C,E,G	Belgium (Fr)	X	School staff options not included: department heads, teacher aides and learning specialists.
SCQ2-3A	Colombia	D	Includes 'Rector'.
SCQ2-3E-G	Cyprus	X	School staff options not included: teacher aides, laboratory technicians, learning specialists and other professional staff.
SCQ2-3C,G	Denmark	X	School staff options not included: department heads and learning specialists.
SCQ2-3A-H	England	X	Question not administered or data not internationally comparable.
SCQ2-3C	Greece	X	Department Heads not applicable; data deleted per NRC.
SCQ2-3C,E,G	Hong Kong	X	School staff options not included: department heads, teacher aides and learning specialists.
SCQ2-3C,E,G	Hungary	X	School staff options not included: department heads, teacher aides and learning specialists.
SCQ2-3C,E,G	Iran	X	School staff options not included: department heads, teacher aides and learning specialists.
SCQ2-3C	Japan	X	School staff options not included: department heads.
SCQ2-3C	Netherlands	X	School staff options not included: department heads.
SCQ2-3C,F,G	Norway	X	School staff options not included: department heads, laboratory technicians and learning specialists.
SCQ2-3A,B	Scotland	D	Data obtained from ministry.
SCQ2-3C,E-H	Scotland	X	School staff options not included: department heads, teacher aides, laboratory technicians, learning specialists and other professional staff.
SCQ2-3D	Scotland	D	Data obtained from ministry.
SCQ2-3A,B,E,G	Singapore	D	Data obtained from ministry.
SCQ2-3C	Singapore	D	Asked number of Department Heads rather than FTE.
SCQ2-3D	Singapore	D	Asked number of teachers rather than FTE (includes relief teachers).
SCQ2-3F,H	Singapore	D	Asked number of staff members rather than FTE.
SCQ2-3A-H	Spain	D	Question asks for rounded values.
SCQ2-3E	Switzerland	X	School staff options not included: teacher aides.
SCQ2-3G	Switzerland	D	Not asked in Italian version; data for German and French schools only.
SCQ2-3H	Switzerland	D	Not asked in German and French versions; data for Italian schools only.

**SCQ2-4****QUESTION:**

How many individual classroom teachers are there in your school?

- A: full-time;  
B: part-time.

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SCQ2-4A,B	Scotland	D	Data obtained from ministry.
SCQ2-4A	Singapore	D	Not asked; computed as sum of teachers + department heads from SCQ2-3c,d.
SCQ2-4B	Singapore	D	Data obtained from ministry; no part-time teachers.

**SCQ2-5****QUESTION:**

What percentage of the classroom teachers have been at your school for 5 or more years?

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SCQ2-5	England	D	Derived from number of teachers at school 5 years or more as a percentage of all teachers.
SCQ2-5	Singapore	D	Asked number of teachers; computed percent based on SCQ2-3d.

**SCQ2-6****QUESTION:**

What percentage of the classroom teachers teach...

- A: three quarters or more of their teaching load in mathematics;  
B: no mathematics;  
C: three quarters or more of their teaching load in science subjects;  
D: no science subjects;  
E: three quarters or more of their teaching load in mathematics AND science subjects;  
F: no mathematics OR science subjects.

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SCQ2-6A	Austria	X	Question not administered or data not internationally comparable.
SCQ2-6B	Austria	D	Data obtained from ministry.
SCQ2-6C-F	Austria	X	Question not administered or data not internationally comparable.
SCQ2-6A-F	Belgium (Fl)	X	Question not administered or data not internationally comparable.
SCQ2-6A-F	England	D	Derived from number of teachers as a percentage of all teachers.
SCQ2-6A-F	Germany	X	Question not administered or data not internationally comparable.
SCQ2-6A-F	Greece	X	Question not administered or data not internationally comparable.
SCQ2-6A-F	Singapore	D	Asked number of teachers; computed percents based on SCQ2-3d.

**SCQ2-7****QUESTION:**

How long do students typically stay with the same teacher?

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SCQ2-7	Belgium (Fr)	X	Question not administered or data not internationally comparable.
SCQ2-7	England	X	Question not administered or data not internationally comparable.

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**SCQ2-8****QUESTION:**

During the school week, how many hours does a mathematics teacher usually have for...

A: tasks related to teaching mathematics;

B: teaching mathematics.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ2-8A,B	Austria	X	Question not administered or data not internationally comparable.
SCQ2-8A,B	Belgium (Fr)	X	Question not administered or data not internationally comparable.
SCQ2-8A,B	Germany	X	Question not administered or data not internationally comparable.
SCQ2-8A,B	Greece	X	Question not administered or data not internationally comparable.
SCQ2-8A,B	Hong Kong	X	Question not administered or data not internationally comparable.
SCQ2-8A,B	Netherlands	X	Question not administered or data not internationally comparable.
SCQ2-8A,B	Norway	X	Question not administered or data not internationally comparable.
SCQ2-8A,B	Singapore	D	Data obtained from ministry.

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**SCQ2-9****QUESTION:**

During the school week, how many hours does a science teacher usually have for...

A: tasks related to teaching science;

B: teaching science.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ2-9A,B	Austria	X	Question not administered or data not internationally comparable.
SCQ2-9A,B	Belgium (Fr)	X	Question not administered or data not internationally comparable.
SCQ2-9A,B	Germany	X	Question not administered or data not internationally comparable.
SCQ2-9A,B	Greece	X	Question not administered or data not internationally comparable.
SCQ2-9A,B	Hong Kong	X	Question not administered or data not internationally comparable.
SCQ2-9A,B	Netherlands	X	Question not administered or data not internationally comparable.
SCQ2-9A,B	Norway	X	Question not administered or data not internationally comparable.
SCQ2-9A,B	Singapore	D	Data obtained from ministry.

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**SCQ2-10****QUESTION:**

Cooperation and collaboration:

A: Does your school have policy promoting cooperation & collaboration among teachers?

B: Are teachers in your school encouraged to share & discuss instructional ideas & materials?

C: Do teachers meet regularly to discuss instructional goals & issues?

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ2-10A-C	England	X	Question not administered or data not internationally comparable.
SCQ2-10A-C	Norway	X	Question not administered or data not internationally comparable.
SCQ2-10A-C	Scotland	X	Question not administered or data not internationally comparable.

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**SCQ2-11****QUESTION:**

As principal, how many hours per month do you spend on the following activities?

A: hiring teachers;

B: representing the school in the community;

C: representing the school at official meetings;

;

N: other activities.

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**Questionnaire****Item ID:****Country:****Code: Comment:**

SCQ2-11N	Austria	X	Question not administered or data not internationally comparable.
SCQ2-11A-N	England	X	Question not administered or data not internationally comparable.
SCQ2-11A-N	Scotland	X	Question not administered or data not internationally comparable.

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**SCQ2-12****QUESTION:**

In your school, who has primary responsibility for each of the following activities?

- A: hiring teachers;
- B: establishing disciplinary policies;
- C: establishing student grading policies;
- :
- N: deciding which courses are offered.

International response options:

- 1 = not a school responsibility
- 2 = <school's governing board>
- 3 = principal
- 4 = department heads
- 5 = teachers

(Some countries modified or omitted response options in accordance with their national systems.)

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ2-12	Australia	D	Double-grids (joint responsibility) coded as missing.
SCQ2-12J	Austria	D	Data obtained from ministry.
SCQ2-12A-I	Belgium (Fl)	D	Option 4 Not Included.
SCQ2-12J	Belgium (Fl)	X	Question not administered or data not internationally comparable.
SCQ2-12K-N	Belgium (Fl)	D	Option 4 Not Included.
SCQ2-12A-I	Belgium (Fr)	D	Option 4 Not Included.
SCQ2-12J	Belgium (Fr)	X	Question not administered or data not internationally comparable.
SCQ2-12K-N	Belgium (Fr)	D	Option 4 Not Included.
SCQ2-12A-N	Canada	D	Double-grids (joint responsibility) coded as missing.
SCQ2-12A-N	Colombia	D	Option 3 = 'Rector'.
SCQ2-12A-N	Cyprus	D	Modified: Option 1 combines Not A School Responsibility and Ministry of Education; Option 2 Not Included; Option 4 = Department Head or Assistant Principal.
SCQ2-12A-N	Denmark	D	Option 4 = Vice-Principal.
SCQ2-12A-N	England	X	Question not administered or data not internationally comparable.
SCQ2-12	France	D	Options 2 and 4 Not Included.
SCQ2-12A-N	Germany	D	Option 2 Not Included.
SCQ2-12A-C	Greece	D	Modified: Option 2 = School Teachers Assembly; Option 4 Not Included.
SCQ2-12D,E	Greece	D	Option 2 not comparable; data removed.
SCQ2-12F-N	Greece	D	Modified: Option 2 = School Teachers Assembly; Option 4 Not Included.
SCQ2-12A-N	Hong Kong	D	Option 3 = principal/vice-principal; double-grids (joint responsibility) coded as invalid.
SCQ2-12A-N	Hungary	D	Option 4 Not Included.
SCQ2-12A-N	Iceland	D	Option 4 Not Included.
SCQ2-12A-N	Iran	D	Option 4 Not Included.
SCQ2-12A-N	Israel	D	Option 2 = Parents' Committee and Public Representatives; Option 4 = Coordinator for Grade Level.
SCQ2-12A-N	Korea	D	Option 2 Not Included.
SCQ2-12A-N	Norway	X	Question not administered or data not internationally comparable.
SCQ2-12A-M	Portugal	D	Modified: Option 2 Not Included; Option 3 = Conselho Directivo; National option of Chefe Servico Administ. coded as invalid.
SCQ2-12N	Portugal	X	Question not administered or data not internationally comparable.
SCQ2-12A-N	Scotland	X	Question not administered or data not internationally comparable.
SCQ2-12A-N	Switzerland	D	Modified: Option 2 not asked in Italian version; Option 5 combines Teachers' Conference and Teachers.

**SCQ2-13****QUESTION:**

How much influence do each of the following have in determining the curriculum that is taught in your school?

International options:

- A: <National Curriculum Council>;
- B: <National Subject Association>;
- C: <educational region or district>;
- D: <school governing board>;
- E: Principal/head of school;
- F: Teachers (collectively for the school);
- G: Teachers (of same subject) as a group;
- H: Each teacher individually;
- I: Parents;
- J: Students;
- K: Church/religious groups;
- L: Business community;
- M: Textbook publishers;
- N: External examinations/standardized tests;
- O: Teacher unions.

(Some countries modified or omitted options in accordance with their national systems.)

Questionnaire Item ID:	Country:	Code:	Comment:
SCQ2-13A	Belgium (Fl)	D	Curriculum Planning Commission.
SCQ2-13B,C,N	Belgium (Fl)	X	Options not included: National subject association, educational region or district and external examinations/standardized tests.
SCQ2-13A-O	Belgium (Fr)	X	Question not administered or data not internationally comparable.
SCQ2-13A	Canada	X	Options not included: The National curriculum council.
SCQ2-13D	Colombia	X	Options not included: School governing board.
SCQ2-13E	Colombia	D	Includes 'Rector' (Director/Head of School not coded).
SCQ2-13A	Cyprus	D	Includes Ministry of Education.
SCQ2-13B-E	Cyprus	X	Options not included: National subject association, educational region or district, school governing board and principal/head of school.
SCQ2-13A-C	Denmark	X	Options not included: National curriculum council and national subject association and educational region or district.
SCQ2-13A-O	England	X	Question not administered or data not internationally comparable.
SCQ2-13D	Germany	X	Options not included: School governing board.
SCQ2-13A	Greece	D	Includes Ministry of Education.
SCQ2-13D	Greece	X	Options not included: School governing board.
SCQ2-13C	Hong Kong	X	Options not included: Educational region or district.
SCQ2-13C,D	Ireland	X	Options not included: Educational region or district and school governing board.
SCQ2-13D	Israel	D	Includes Parents' Committee and Public Representatives
SCQ2-13A-O	Kuwait	X	Question not administered or data not internationally comparable.
SCQ2-13C	Netherlands	X	Options not included: Educational region or district.
SCQ2-13A-O	Norway	X	Question not administered or data not internationally comparable.
SCQ2-13A,D	Portugal	X	Options not included: National curriculum council and school governing board.
SCQ2-13E	Portugal	D	Includes Conselho Directivo
SCQ2-13F	Portugal	D	Includes Conselho Pedagogico
SCQ2-13A-O	Scotland	X	Question not administered or data not internationally comparable.
SCQ2-13A	Singapore	D	Includes Ministry of Education.
SCQ2-13B,C	Singapore	X	Options not included: National subject association and educational region or district.
SCQ2-13A	United States	X	Options not included: The National Curriculum Council.
SCQ2-13B	United States	D	Combines responses to two questions: National Council of Teachers of Mathematics (NCTM) Standards for Teaching Mathematics and American Association for the Advancement of Science (AAAS) Benchmarks for Science Literacy.

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**SCQ2-14****QUESTION:**

Does your school have its own written statement of the curriculum content to be taught (i.e., other than the national or regional curriculum guides)?

- A: For mathematics;  
B: For science.

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
SCQ2-14	Austria	X	Question not administered or data not internationally comparable.
SCQ2-14A,B	Belgium (Fr)	X	Question not administered or data not internationally comparable.
SCQ2-14A,B	Kuwait	X	Question not administered or data not internationally comparable.

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**SCQ2-15****QUESTION:**

In your school, how many computers are...

- A: available for use by teachers or students;  
B: used by teachers for administrative purposes;  
C: used by teachers during instructional time;  
:  
E: used by office staff for school record keeping.

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
SCQ2-15A	Austria	D	Data obtained from ministry.
SCQ2-15B,E	Austria	X	Question not administered or data not internationally comparable.
SCQ2-15C,D	Austria	D	Data obtained from ministry.
SCQ2-15A-E	England	D	Data derived from modified version of questions.

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**SCQ2-16****QUESTION:**

Is your school's capacity to provide instruction affected by a shortage or inadequacy of any of the following?

- A: instructional materials;  
B: budget for supplies;  
C: school buildings & grounds;  
:  
Q: audio-visual resources for science instruction.

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
SCQ2-16A-Q	England	D	Option 1 combines 'No Effect' and 'Not Applicable'.
SCQ2-16A-Q	Scotland	X	Question not administered or data not internationally comparable.

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**SCQ2-17A-D****QUESTION:**

The students in your school:

- A: total enrollment (A1=boys; A2=girls);  
B: percent of students who are absent on a typical school day ;  
C: percent of students who finished the whole school year;  
D: percent of student who transferred to your school after the beginning of the school year?

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
SCQ2-17A1,A2	Singapore	D	Data obtained from ministry.
SCQ2-17C,D	Singapore	D	Data obtained from ministry.

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**SCQ2-17E-J****QUESTION:**

The students in your school (concerning lower grade):

E: number of students in lower grade (E1=boys; E2=girls);

F: number of students who are repeating the grade (F1=boys; F2=girls);

G: average class size;

H: number of students in multi-grade classrooms;

I: number of students studying mathematics (I1=boys; I2=girls);

J: number of students studying science (J1=boys; J2=girls).

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ2-17H	Austria	X	Question not administered or data not internationally comparable.
SCQ2-17I1,I2	Austria	D	Copied data: i=e. All lower grade students study math.
SCQ2-17J1,J2	Austria	D	Copied data: j=e. All lower grade students study science.
SCQ2-17H	Belgium (Fl)	X	Question not administered or data not internationally comparable.
SCQ2-17I1,I2	Belgium (Fl)	D	Copied data: i=e. All lower grade students study math.
SCQ2-17J1,J2	Belgium (Fl)	D	Copied data: j=e. All lower grade students study science.
SCQ2-17H	Belgium (Fr)	X	Question not administered or data not internationally comparable.
SCQ2-17I1,I2	Belgium (Fr)	D	Copied data: i=e. All lower grade students study math.
SCQ2-17J1,J2	Belgium (Fr)	D	Copied data: j=e. All lower grade students study science.
SCQ2-17H	Cyprus	X	Question not administered or data not internationally comparable.
SCQ2-17I1,I2	Denmark	D	Copied data: i=e. All lower grade students study math.
SCQ2-17J1,J2	Denmark	D	Copied data: j=e. All lower grade students study science.
SCQ2-17G	England	X	Question not administered or data not internationally comparable.
SCQ2-17I1,I2	England	D	Copied data: i=e. All lower grade students study math.
SCQ2-17J1,J2	England	D	Copied data: j=e. All lower grade students study science.
SCQ2-17H	France	X	Question not administered or data not internationally comparable.
SCQ2-17I1,I2	France	D	Copied data: i=e. All lower grade students study math.
SCQ2-17J1,J2	France	D	Copied data: j=e. All lower grade students study science.
SCQ2-17H	Germany	X	Question not administered or data not internationally comparable.
SCQ2-17J1,J2	Germany	X	Question not administered or data not internationally comparable.
SCQ2-17H	Greece	X	Question not administered or data not internationally comparable.
SCQ2-17I1,I2	Greece	D	Copied data: i=e. All lower grade students study math.
SCQ2-17J1,J2	Greece	D	Copied data: j=e. All lower grade students study science.
SCQ2-17H	Hong Kong	X	Question not administered or data not internationally comparable.
SCQ2-17I1,I2	Hong Kong	D	Copied data: i=e. All lower grade students study math.
SCQ2-17J1,J2	Hong Kong	D	Copied data: j=e. All lower grade students study science.
SCQ2-17E1-J2	Hungary	X	Question not administered or data not internationally comparable.
SCQ2-17H	Ireland	X	Question not administered or data not internationally comparable.
SCQ2-17H	Israel	X	Question not administered or data not internationally comparable.
SCQ2-17E1-J2	Kuwait	X	Question not administered or data not internationally comparable.
SCQ2-17I1,I2	Netherlands	D	Copied data: i=e. All lower grade students study math.
SCQ2-17J1,J2	Netherlands	D	Copied data: j=e. All lower grade students study science.
SCQ2-17F	Norway	X	Question not administered or data not internationally comparable.
SCQ2-17I1,I2	Norway	D	Copied data: i=e. All lower grade students study math.
SCQ2-17J1,J2	Norway	D	Copied data: j=e. All lower grade students study science.
SCQ2-17H	Portugal	X	Question not administered or data not internationally comparable.
SCQ2-17H	Scotland	X	Question not administered or data not internationally comparable.
SCQ2-17E1-J2	Singapore	D	Data obtained from ministry.
SCQ2-17H	Spain	X	Question not administered or data not internationally comparable.
SCQ2-17I1,I2	Spain	D	Copied data: i=e. All lower grade students study math.
SCQ2-17J1,J2	Spain	D	Copied data: j=e. All lower grade students study science.

**SCQ2-17K-P****QUESTION:**

The students in your school (concerning upper grade):

K: number of students in upper grade (K1=boys; K2=girls);

L: number of students who are repeating the grade (L1=boys; L2=girls);

M: average class size;

N: number of students in multi-grade classrooms;

O: number of students studying mathematics (O1=boys; O2=girls);

P: number of students studying science (P1=boys; P2=girls).

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ2-17N	Austria	X	Question not administered or data not internationally comparable.
SCQ2-17O1,O2	Austria	D	Copied data: o=k. All upper grade students study math.
SCQ2-17P1,P2	Austria	D	Copied data: p=k. All upper grade students study science.
SCQ2-17N	Belgium (Fl)	X	Question not administered or data not internationally comparable.
SCQ2-17O1,O2	Belgium (Fl)	D	Copied data: o=k. All upper grade students study math.
SCQ2-17P1,P2	Belgium (Fl)	D	Copied data: p=k. All upper grade students study science.
SCQ2-17N	Belgium (Fr)	X	Question not administered or data not internationally comparable.
SCQ2-17O1,O2	Belgium (Fr)	D	Copied data: o=k. All upper grade students study math.
SCQ2-17P1,P2	Belgium (Fr)	D	Copied data: p=k. All upper grade students study science.
SCQ2-17N	Cyprus	X	Question not administered or data not internationally comparable.
SCQ2-17O1,O2	Denmark	D	Copied data: o=k. All upper grade students study math.
SCQ2-17P1,P2	Denmark	D	Copied data: p=k. All upper grade students study science.
SCQ2-17M	England	X	Question not administered or data not internationally comparable.
SCQ2-17O1,O2	England	D	Copied data: o=k. All upper grade students study math.
SCQ2-17P1,P2	England	D	Copied data: p=k. All upper grade students study science.
SCQ2-17N	France	X	Question not administered or data not internationally comparable.
SCQ2-17O1,O2	France	D	Copied data: o=k. All upper grade students study math.
SCQ2-17P1,P2	France	D	Copied data: p=k. All upper grade students study science.
SCQ2-17N	Germany	X	Question not administered or data not internationally comparable.
SCQ2-17P1,P2	Germany	X	Question not administered or data not internationally comparable.
SCQ2-17N	Greece	X	Question not administered or data not internationally comparable.
SCQ2-17O1,O2	Greece	D	Copied data: o=k. All upper grade students study math.
SCQ2-17P1,P2	Greece	D	Copied data: p=k. All upper grade students study science.
SCQ2-17N	Hong Kong	X	Question not administered or data not internationally comparable.
SCQ2-17O1,O2	Hong Kong	D	Copied data: o=k. All upper grade students study math.
SCQ2-17P1,P2	Hong Kong	D	Copied data: p=k. All upper grade students study science.
SCQ2-17K1-P2	Hungary	X	Question not administered or data not internationally comparable.
SCQ2-17N	Ireland	X	Question not administered or data not internationally comparable.
SCQ2-17N	Israel	X	Question not administered or data not internationally comparable.
SCQ2-17N	Kuwait	X	Question not administered or data not internationally comparable.
SCQ2-17O1,O2	Netherlands	D	Copied data: o=k. All upper grade students study math.
SCQ2-17P1,P2	Netherlands	D	Copied data: p=k. All upper grade students study science.
SCQ2-17L1,L2	Norway	X	Question not administered or data not internationally comparable.
SCQ2-17O1,O2	Norway	D	Copied data: o=k. All upper grade students study math.
SCQ2-17P1,P2	Norway	D	Copied data: p=k. All upper grade students study science.
SCQ2-17N	Portugal	X	Question not administered or data not internationally comparable.
SCQ2-17N	Scotland	X	Question not administered or data not internationally comparable.
SCQ2-17K1-P2	Singapore	D	Data obtained from ministry.
SCQ2-17N	Spain	X	Question not administered or data not internationally comparable.
SCQ2-17O1,O2	Spain	D	Copied data: o=k. All upper grade students study math.
SCQ2-17P1,P2	Spain	D	Copied data: p=k. All upper grade students study science.

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**SCQ2-18****QUESTION:**

How often does school administration or staff have to deal with the following behaviors among students?

A: arriving late at school;

B: absenteeism;

C: skipping class;

;

R: inappropriate sexual behavior.

(This question is made up of two parts, with part 1 (18A1-R1) asking of the frequency of the occurrence and part 2 (18A2-R2) asking of the percentage of students involved for each of the behavior listed).

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ2-18Q1-R2	Australia	X	Question not administered or data not internationally comparable.
SCQ2-18A2-R2	Austria	X	Questions of part 2 (percentage) were not asked.
SCQ2-18A2-R2	Belgium (Fl)	X	Questions of part 2 (percentage) were not asked.
SCQ2-18A1-R2	England	X	Question not administered or data not internationally comparable.
SCQ2-18A2-R2	France	X	Questions of part 2 (percentage) were not asked.
SCQ2-18A1-R2	Hungary	X	Question not administered or data not internationally comparable.
SCQ2-18O1,O2	Iran	X	Question not administered or data not internationally comparable.
SCQ2-18Q1,Q2	Iran	X	Question not administered or data not internationally comparable.
SCQ2-18A2-R2	Israel	X	Questions of part 2 (percentage) were not asked.
SCQ2-18A1-R2	Japan	X	Question not administered or data not internationally comparable.
SCQ2-18A2-R2	Netherlands	X	Questions of part 2 (percentage) were not asked.
SCQ2-18N1	Netherlands	X	Question not administered or data not internationally comparable.
SCQ2-18A1-R2	Norway	X	Question not administered or data not internationally comparable.
SCQ2-18A1-R2	Scotland	X	Question not administered or data not internationally comparable.
SCQ2-18O1-R2	Singapore	X	Question not administered or data not internationally comparable.
SCQ2-18D1,D2	Spain	X	Question not administered or data not internationally comparable.
SCQ2-18N1-R2	Spain	X	Question not administered or data not internationally comparable.
SCQ2-18R1,R2	Sweden	X	Question not administered or data not internationally comparable.

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**SCQ2-19****QUESTION:**

A: How many instructional days are in the school year?

B: How many full instructional days are there in the school week?

C: How many half instructional days are there in the school week?

D: How many hours in total are there in the school week?

E: How many instructional hours are there in the school week?

(Filter-19 asks if the instructional time is the same for both upper &amp; lower grades, followed by two parts, with part 1 (19A1-E1) for lower grade and part 2 (19A2-E2) for upper grade).

(Note: If 19 filter = Yes, data copied from upper-grade to lower-grade for all parts.)

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ2-19	Austria	X	Filter not asked.
SCQ2-19A1-C2	Austria	D	Only one question asked; copied lower grade = upper grade.
SCQ2-19D1-E2	Austria	X	Question not administered or data not internationally comparable.
SCQ2-19	Belgium (Fl)	D	Data obtained from ministry.
SCQ2-19A1-E2	Belgium (Fl)	D	Data obtained from ministry.
SCQ2-19	Belgium (Fr)	D	Data obtained from ministry.
SCQ2-19A1-E2	Belgium (Fr)	D	Data obtained from ministry.
SCQ2-19D1,D2	Czech Republic	X	Question not administered or data not internationally comparable.
SCQ2-19A1,A2	Denmark	D	Data obtained from ministry.
SCQ2-19B1-E2	Denmark	X	Question not administered or data not internationally comparable.
SCQ2-19A1,A2	Greece	X	Question not administered or data not internationally comparable.
SCQ2-19B1,B2	Greece	D	Data obtained from ministry.
SCQ2-19C1-E2	Greece	X	Question not administered or data not internationally comparable.
SCQ2-19	Hong Kong	X	Filter not administered.
SCQ2-19	Hungary	D	Data obtained from the ministry
SCQ2-19A1	Hungary	D	Used modified questionnaire: upper grade = grades 5-8. Copied data: lower grade = upper grade.
SCQ2-19B1	Hungary	D	Used modified questionnaire: upper grade = grades 5-8. Copied data: lower grade = upper grade.
SCQ2-19C1	Hungary	D	Used modified questionnaire: upper grade = grades 5-8. Copied data: lower grade = upper grade.
SCQ2-19D1	Hungary	D	Used modified questionnaire: upper grade = grades 5-8. Copied data: lower grade = upper grade.
SCQ2-19E1	Hungary	D	Used modified questionnaire: upper grade = grades 5-8. Copied data: lower grade = upper grade.
SCQ2-19	Israel	X	Filter not administered.
SCQ2-19	Kuwait	X	Question not administered or data not internationally comparable.
SCQ2-19A1-E2	Kuwait	X	Question not administered or data not internationally comparable.
SCQ2-19B1-C2	Netherlands	D	Data obtained from ministry.
SCQ2-19	Norway	D	Data obtained from ministry.
SCQ2-19A1-B2	Norway	D	Data obtained from ministry.
SCQ2-19C1-E2	Norway	X	Question not administered or data not internationally comparable.
SCQ2-19	Singapore	D	Data obtained from ministry.
SCQ2-19A1-E2	Singapore	D	Data obtained from ministry.
SCQ2-19	Sweden	X	Filter not administered.
SCQ2-19D1,D2	Sweden	D	Refers to period of 60 minutes (different from SCQ2-19E).
SCQ2-19E1,E2	Sweden	D	Refers to period of 40 minutes (different from SCQ2-19D).
SCQ2-19A1,A2	Switzerland	D	Translation error in French and German version; asked weeks/year. Computed as weeks/year(19a) x days/week(19b).
SCQ2-19E1,E2	Switzerland	D	Not asked in French and German version; data for Italian schools only.
SCQ2-19	Thailand	X	Filter not applicable.

**SCQ2-20****QUESTION:**

Is the school week divided into instructional hours/periods?  
(This is a filter for 20A-B).

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SCQ2-20	Austria	X	Filter not administered.
SCQ2-20	Hong Kong	X	Filter Not Administered.
SCQ2-20	Hungary	D	Used same data for Population 1 and Population 2.
SCQ2-20	Japan	X	Question not administered or data not internationally comparable.
SCQ2-20	Kuwait	X	Question not administered or data not internationally comparable.

**SCQ2-20A-B****QUESTION:**

If yes,

A: How many instructional periods are there in a week?

B: How many minutes is a typical instructional period?

(Two parts of responses are expected, with part 1 (20A1 & B1) for lower grade & part 2 (20A2 & B2) for upper grade.)

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SCQ2-20A1-B2	Denmark	D	Data obtained from the ministry
SCQ2-20A1,A2	Greece	X	Question not administered or data not internationally comparable.
SCQ2-20B1,B2	Greece	D	Data obtained from ministry.
SCQ2-20A1-B2	Hong Kong	D	Asked a single question; copied lower grade = upper grade.
SCQ2-20A1	Hungary	D	Used modified questionnaire: upper grade = grades 5-8. Copied data: lower grade = upper grade.
SCQ2-20B1	Hungary	D	Used modified questionnaire: upper grade = grades 5-8. Copied data: lower grade = upper grade.
SCQ2-20A1-B2	Japan	X	Question not administered or data not internationally comparable.
SCQ2-20A1-B2	Kuwait	X	Question not administered or data not internationally comparable.

**SCQ2-21****QUESTION:**

Does your school provide remedial teaching in mathematics?

Filter: (Yes/No--21).

If yes, how is this organized? (21A-D)

A: Groups are formed within regular mathematics class;

B: Students are withdrawn from their regular mathematics class;

C: Students receive extra <tuition> before or after school;

D: Other.

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SCQ2-21B	Belgium (Fl)	X	Question not administered or data not internationally comparable.
SCQ2-21	Slovenia	D	Filter not administered; computed based on responses to SCQ2-21a,b,c,d.



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**SCQ2-22****QUESTION:**

Does your school provide remedial teaching in science?

Filter: (Yes/No--22).

If yes, how is this organized? (22A-D)

A: Groups are formed within regular science class;

B: Students are withdrawn from their regular science class;

C: Students receive extra <tuition> before or after school;

D: Other.

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
SCQ2-22B	Belgium (FI)	X	Question not administered or data not internationally comparable.
SCQ2-22	Slovenia	D	Filter not administered; computed based on responses to SCQ2-22a,b,c,d.

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**SCQ2-23****QUESTION:**

Does your school provide special enrichment activities in mathematics for advanced students?

Filter: (Yes/No--23).

If yes, how is this organized? (23A-D)

A: Groups are formed within regular mathematics class;

B: Students are withdrawn from their regular mathematics class;

C: Students receive extra <tuition> before or after school;

D: Other.

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
SCQ2-23B	Belgium (FI)	X	Question not administered or data not internationally comparable.
SCQ2-23	Slovenia	D	Filter not administered; computed based on responses to SCQ2-23a,b,c,d.

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**SCQ2-24****QUESTION:**

Does your school provide special enrichment in science for advanced students?

Filter: (Yes/No--24).

If yes, how is this organized? (24A-D)

A: Groups are formed within regular science class;

B: Students are withdrawn from their regular science class;

C: Students receive extra <tuition> before or after school;

D: Other.

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**Questionnaire**

Item ID:	Country:	Code:	Comment:
SCQ2-24B	Belgium (FI)	X	Question not administered or data not internationally comparable.

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**SCQ2-25****QUESTION:**

Do all students in upper grade follow the same course of study in mathematics?  
(This is a filter for 25A,B; 25C-F; and 26A-H).

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ2-25	Austria	D	Yes to filter applies to 'AHS' students.
SCQ2-25	Belgium (Fl)	D	Data obtained from ministry.
SCQ2-25	Belgium (Fr)	D	Data obtained from ministry.
SCQ2-25	Hungary	X	Question not administered or data not internationally comparable.
SCQ2-25	Kuwait	X	Question not administered or data not internationally comparable.
SCQ2-25	Norway	D	Data obtained from ministry.
SCQ2-25	Singapore	D	Modified; obtained from ministry.
SCQ2-25	Spain	D	Filter not administered; data obtained from ministry.
SCQ2-25	Sweden	D	Filter not applicable in most lower grade schools due to system split between lower grade and upper grade

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**SCQ2-25A, B****QUESTION:**

If yes, then...

A: How many instructional minutes per week are students in the upper grade required to spend in mathematics classes?

B: How many instructional weeks per year are students in the upper grade required to spend in mathematics classes?

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ2-25A-B	Austria	D	Data obtained from ministry.
SCQ2-25A,B	Belgium (Fl)	D	Data obtained from ministry.
SCQ2-25A,B	Belgium (Fr)	D	Data obtained from ministry.
SCQ2-25A,B	Denmark	D	Data obtained from the ministry
SCQ2-25B	England	D	Computed from modified question: days/year divided by 5.
SCQ2-25A,B	Greece	X	Question not administered or data not internationally comparable.
SCQ2-25A,B	Hungary	X	Question not administered or data not internationally comparable.
SCQ2-25A,B	Kuwait	X	Question not administered or data not internationally comparable.
SCQ2-25B	Netherlands	D	Data obtained from ministry.
SCQ2-25A,B	Norway	D	Data obtained from ministry.
SCQ2-25A,B	Singapore	D	Modified; obtained from ministry.

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**SCQ2-25C-F****QUESTION:**

If no, then...

C: How many different courses in mathematics are available?

D: What percentage of upper grade students take...

1) the most advanced mathematics course of study;

2) the least advanced mathematics course of study.

E: What is the total number of instructional minutes per week for those students who take...

1) the most advanced mathematics course of study;

2) the least advanced mathematics course of study.

F: What is the total number of instructional weeks per year for those students who take...

1) the most advanced mathematics course of study;

2) the least advanced mathematics course of study.

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ2-25C	Austria	D	Data obtained from ministry.
SCQ2-25D1,D2	Austria	X	Question not administered or data not internationally comparable.
SCQ2-25E1-F2	Austria	D	Data obtained from ministry.
SCQ2-25C-F2	Belgium (Fl)	D	Data obtained from ministry.
SCQ2-25C-F2	Belgium (Fr)	D	Data obtained from ministry.
SCQ2-25C-F2	Cyprus	X	Not applicable; all students follow same course of study.
SCQ2-25C	France	X	Question not administered or data not internationally comparable.
SCQ2-25C-F2	Greece	X	Not applicable; all students follow same course of study.
SCQ2-25C-F2	Hong Kong	X	Not applicable; all students follow same course of study.
SCQ2-25C-F2	Hungary	X	Question not administered or data not internationally comparable.
SCQ2-25C-F2	Korea	X	Not applicable; all students follow same course of study.
SCQ2-25C-F2	Kuwait	X	Question not administered or data not internationally comparable.
SCQ2-25F1,F2	Netherlands	D	Data obtained from ministry.
SCQ2-25C-F2	Norway	X	Question not administered or data not internationally comparable.
SCQ2-25D2	Russia	X	Question not administered or data not internationally comparable.
SCQ2-25E2	Russia	X	Question not administered or data not internationally comparable.
SCQ2-25F2	Russia	X	Question not administered or data not internationally comparable.
SCQ2-25C-F2	Singapore	D	Modified; obtained from ministry.
SCQ2-25C-F2	Spain	X	Not applicable; all students follow same course of study.

**SCQ2-26****QUESTION:**

If all students do not follow the same course of study in mathematics, how important are each of the following factors in deciding which courses of study in mathematics an upper grade student takes?

- A: academic performance;
- B: performance on a standardized test;
- C: performance on an entrance examination;
- D: performance on an oral examination;
- E: teacher recommendations;
- F: parent wishes;
- G: the student's own wishes;
- H: curricular requirements.

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SCQ2-26H	Austria	X	Question not administered or data not internationally comparable.
SCQ2-26A-H	Belgium (Fl)	X	Not applicable; all students follow same course of study.
SCQ2-26A-H	Belgium (Fr)	X	Not applicable; all students follow same course of study.
SCQ2-26A-H	Denmark	X	Question not administered or data not internationally comparable.
SCQ2-26A-H	Greece	X	Not applicable; all students follow same course of study.
SCQ2-26A-H	Hong Kong	X	Not applicable; all students follow same course of study.
SCQ2-26A-H	Hungary	X	Question not administered or data not internationally comparable.
SCQ2-26A-H	Kuwait	X	Question not administered or data not internationally comparable.
SCQ2-26A-H	Norway	X	Question not administered or data not internationally comparable.
SCQ2-26A	Singapore	D	Asked one question pertaining to math & science. Contains same data as SCQ2-28a.
SCQ2-26B	Singapore	D	Asked one question pertaining to math & science. Contains same data as SCQ2-28b.
SCQ2-26C,D	Singapore	D	Not asked; 100% Not Applicable entered at ministry.
SCQ2-26E	Singapore	D	Asked one question pertaining to math & science. Contains same data as SCQ2-28e.
SCQ2-26F-H	Singapore	D	Not asked; 100% Not Applicable entered at ministry.
SCQ2-26A-H	Spain	X	Question not administered or data not internationally comparable.

**SCQ2-27****QUESTION:**

Do all students in upper grade follow the same course of study in science?  
(This is a filter for 27A,B; 27C-F; and 28A-H).

**Questionnaire**

Item ID:	Country:	Code:	Comment:
SCQ2-27	Austria	D	Yes to filter applies to AHS students.
SCQ2-27	Belgium (Fl)	D	Data obtained from ministry.
SCQ2-27	Belgium (Fr)	X	Question not administered or data not internationally comparable.
SCQ2-27	Denmark	X	Question not administered or data not internationally comparable.
SCQ2-27	Hungary	X	Question not administered or data not internationally comparable.
SCQ2-27	Kuwait	X	Question not administered or data not internationally comparable.
SCQ2-27	Lithuania	X	Question not administered or data not internationally comparable.
SCQ2-27	Norway	D	Data obtained from ministry.
SCQ2-27	Singapore	D	Modified; obtained from ministry.
SCQ2-27	Spain	D	Filter not administered; data obtained from ministry.
SCQ2-27	Sweden	D	Filter not applicable in most lower grade schools due to system split between lower grade and upper grade

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**SCQ2-27A, B****QUESTION:**

If yes, then...

A: How many instructional minutes per week are students in the upper grade required to spend in science classes?

B: How many instructional weeks per year are students required to spend in science classes?

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ2-27A,B	Austria	D	Data obtained from ministry.
SCQ2-27A,B	Belgium (Fl)	D	Data obtained from ministry.
SCQ2-27A,B	Belgium (Fr)	X	Question not administered or data not internationally comparable.
SCQ2-27A,B	Denmark	X	Question not administered or data not internationally comparable.
SCQ2-27B	England	D	Computed from modified question: days/year divided by 5.
SCQ2-27A,B	Greece	X	Question not administered or data not internationally comparable.
SCQ2-27A,B	Hungary	X	Question not administered or data not internationally comparable.
SCQ2-27A,B	Kuwait	X	Question not administered or data not internationally comparable.
SCQ2-27A,B	Lithuania	X	Question not administered or data not internationally comparable.
SCQ2-27B	Netherlands	D	Data obtained from ministry.
SCQ2-27A,B	Norway	D	Data obtained from ministry.
SCQ2-27A,B	Singapore	D	Modified; obtained from ministry.

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**SCQ2-27C-F****QUESTION:**

If no, then...

C: How many different courses in science are available?

D: What percentage of upper grade students take...

- 1) the most advanced science course of study;
- 2) the least advanced science course of study.

:

F: What is the total number of instructional weeks per year for those students who take...

- 1) the most advanced science course of study;
- 2) the least advanced science course of study.

**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ2-27C-F2	Austria	D	Data obtained from ministry.
SCQ2-27C	Belgium (Fl)	D	Data obtained from ministry.
SCQ2-27D1-E2	Belgium (Fl)	X	Question not administered or data not internationally comparable.
SCQ2-27F1,F2	Belgium (Fl)	D	Data obtained from ministry.
SCQ2-27C-F2	Belgium (Fr)	X	Question not administered or data not internationally comparable.
SCQ2-27C-F2	Cyprus	X	Not applicable; all students follow same course of study.
SCQ2-27C-F2	Denmark	X	Question not administered or data not internationally comparable.
SCQ2-27C	France	X	Question not administered or data not internationally comparable.
SCQ2-27C-F2	Greece	X	Not applicable; all students follow same course of study.
SCQ2-27C-F2	Hong Kong	X	Not applicable; all students follow same course of study.
SCQ2-27C-F2	Hungary	X	Question not administered or data not internationally comparable.
SCQ2-27D1,D2	Iceland	X	Question not administered or data not internationally comparable.
SCQ2-27C	Iran	X	Question not administered or data not internationally comparable.
SCQ2-27E1,E2	Iran	X	Question not administered or data not internationally comparable.
SCQ2-27C-F2	Japan	X	Not applicable; all students follow same course of study.
SCQ2-27C-F2	Kuwait	X	Question not administered or data not internationally comparable.
SCQ2-27C-F2	Lithuania	X	Question not administered or data not internationally comparable.
SCQ2-27F1,F2	Netherlands	D	Data obtained from ministry.
SCQ2-27C-F2	Norway	X	Question not administered or data not internationally comparable.
SCQ2-27F1,F2	Portugal	X	Question not administered or data not internationally comparable.
SCQ2-27D2	Russia	X	Question not administered or data not internationally comparable.
SCQ2-27E2	Russia	X	Question not administered or data not internationally comparable.
SCQ2-27F2	Russia	X	Question not administered or data not internationally comparable.
SCQ2-27C-F2	Singapore	D	Modified; obtained from ministry.
SCQ2-27C-F2	Spain	X	Question not administered or data not internationally comparable.

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**SCQ2-28****QUESTION:**

If all students do not follow the same course of study in science, how important are each of the following factors in deciding which courses of study in science an upper grade student takes?

- A: academic performance;
- B: performance on a standardized test;
- C: performance on an entrance examination;
- D: performance on an oral examination;
- E: teacher recommendations;
- F: parent wishes;
- G: the student's own wishes;
- H: curricular requirements.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ2-28A-H	Austria	X	Question not administered or data not internationally comparable.
SCQ2-28A-H	Belgium (Fl)	X	Question not administered or data not internationally comparable.
SCQ2-28A-H	Belgium (Fr)	X	Question not administered or data not internationally comparable.
SCQ2-28A-H	Denmark	X	Question not administered or data not internationally comparable.
SCQ2-28A-H	Greece	X	Not applicable; all students follow same course of study.
SCQ2-28A-H	Hong Kong	X	Not applicable; all students follow same course of study.
SCQ2-28A-H	Hungary	X	Question not administered or data not internationally comparable.
SCQ2-28A-H	Japan	X	Not applicable; all students follow same course of study.
SCQ2-28A-H	Kuwait	X	Question not administered or data not internationally comparable.
SCQ2-28A-H	Norway	X	Question not administered or data not internationally comparable.
SCQ2-28A-H	Portugal	X	Question not administered or data not internationally comparable.
SCQ2-28A	Singapore	D	Asked one question pertaining to math & science. Contains same data as SCQ2-26a.
SCQ2-28B	Singapore	D	Asked one question pertaining to math & science. Contains same data as SCQ2-26b.
SCQ2-28C,D	Singapore	D	Not asked; 100% Not Applicable entered at ministry.
SCQ2-28E	Singapore	D	Asked one question pertaining to math & science. Contains same data as SCQ2-26e.
SCQ2-28F-H	Singapore	D	Not asked; 100% Not Applicable entered at ministry.
SCQ2-28A-H	Spain	X	Question not administered or data not internationally comparable.

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**SCQ2-29****QUESTION:**

Approximately what percentage of the students in your school...

A: come from disadvantaged economic backgrounds;

B: come from homes where neither parent received more than primary education;

C: come from one-parent families;

D: attended preschool;

E: have a first language different from the language taught in the school;

F: have learning problems;

G: have health problems;

H: have nutrition problems.

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**Questionnaire**

<b>Item ID:</b>	<b>Country:</b>	<b>Code:</b>	<b>Comment:</b>
SCQ2-29D	Australia	X	Question not administered or data not internationally comparable.
SCQ2-29A-H	Austria	X	Question not administered or data not internationally comparable.
SCQ2-29A-H	Belgium (Fl)	X	Question not administered or data not internationally comparable.
SCQ2-29A-H	Belgium (Fr)	X	Question not administered or data not internationally comparable.
SCQ2-29A-H	Denmark	X	Question not administered or data not internationally comparable.
SCQ2-29A	England	D	Computed based on proxy question related to eligibility for free school meals.
SCQ2-29B-D	England	X	Question not administered or data not internationally comparable.
SCQ2-29E	England	D	Computed based on proxy question related to English as a Second Language (ESL) support.
SCQ2-29F-H	England	X	Question not administered or data not internationally comparable.
SCQ2-29A-H	France	X	Question not administered or data not internationally comparable.
SCQ2-29A-H	Germany	X	Question not administered or data not internationally comparable.
SCQ2-29A-H	Hong Kong	X	Question not administered or data not internationally comparable.
SCQ2-29A-H	Japan	X	Question not administered or data not internationally comparable.
SCQ2-29A-H	Kuwait	X	Question not administered or data not internationally comparable.
SCQ2-29A-H	Norway	X	Question not administered or data not internationally comparable.
SCQ2-29B,D	Russia	X	Question not administered or data not internationally comparable.
SCQ2-29A-H	Scotland	X	Question not administered or data not internationally comparable.
SCQ2-29A-H	Singapore	X	Question not administered or data not internationally comparable.
SCQ2-29A-H	Slovak Republic	X	Question not administered or data not internationally comparable.
SCQ2-29A-H	United States	X	Question not administered or data not internationally comparable.

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**SCQ2-30****QUESTION:**

On what basis are pupils admitted to your school?

- A: residence in a particular area;
- B: student's academic performance;
- C: interview with student;
- 
- M: other.

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**Questionnaire  
Item ID:****Country:****Code: Comment:**

SCQ2-30A-M	Austria	X	Question not administered or data not internationally comparable.
SCQ2-30A-M	Belgium (Fl)	X	Question not administered or data not internationally comparable.
SCQ2-30A-M	Belgium (Fr)	X	Question not administered or data not internationally comparable.
SCQ2-30A-M	Canada	X	Question not administered or data not internationally comparable.
SCQ2-30A-M	Denmark	X	Question not administered or data not internationally comparable.
SCQ2-30A-M	France	X	Question not administered or data not internationally comparable.
SCQ2-30A-M	Hong Kong	X	Question not administered or data not internationally comparable.
SCQ2-30A-M	Japan	X	Question not administered or data not internationally comparable.
SCQ2-30A-M	Kuwait	X	Question not administered or data not internationally comparable.
SCQ2-30A-M	Norway	X	Question not administered or data not internationally comparable.
SCQ2-30J-L	Portugal	X	Question not administered or data not internationally comparable.
SCQ2-30A-M	Scotland	X	Question not administered or data not internationally comparable.
SCQ2-30A-M	Singapore	X	Question not administered or data not internationally comparable.
SCQ2-30A-M	Slovak Republic	X	Question not administered or data not internationally comparable.

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