

# TIMSS USER GUIDE for the 1999 INTERNATIONAL DATABASE

IEA's Repeat of the Third International Mathematics  
and Science Study at the Eighth Grade



Supplement  
Two

# 2

Documentation  
of National  
Adaptations  
of Background  
Questionnaire  
Items



Boston College  
Lynch School  
of Education



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# Supplement 2: Documentation of National Adaptations of International Background Questionnaire Items

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## Overview

This supplement contains documentation of national adaptations to the international versions of the background questionnaire items. The accompanying TIMSS 1999 User Guide contains a description of the TIMSS 1999 background questionnaires.

This documentation provides users with a guide to evaluate the availability of internationally comparable data for use in secondary analyses involving the TIMSS 1999 background variables. The documentation of national adaptations is presented in four separate sections corresponding to each questionnaire type:

- Section 1: Student Background Questionnaire
- Section 2: Mathematics Teacher Background Questionnaire
- Section 3: Science Teacher Background Questionnaire
- Section 4: School Background Questionnaire

Each section contains general item information as well as specific national documentation about individual background questions in order of questionnaire item location. In general, information is included when the version of the question administered was different from the international version of the question as it appears in the international version of the questionnaires. All variables are listed in this documentation regardless of whether there were national adaptations made to the question or not. For each question, when applicable, the following information is provided:

- Questionnaire Item Location Reference
- Question (an abbreviated version of the main question with any relevant sub-items and general notes)
- Variable Name(s)
- Link to 1995: If applicable, the analogous questionnaire item location reference and variable name(s)

- Trend Status: Indication of the availability of 1995 variables for trend analyses. The following statements were used:
  1. Same question and response options administered in 1995; or
  2. Same basic question administered in 1995, however, some response options or question parts have been modified; or
  3. Question not administered in 1995.
- National Adaptation Documentation, if applicable, listed by country.

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 question. Its purpose is also to aid in the interpretation of the specific documentation comments. For the exact question as it appears in the International version of the questionnaire please see Supplement 1 of this User Guide.

The National Adaptation Documentation for each question lists any countries for which internationally comparable data for the indicated variable 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 these adaptations pertain to the 1999 data. Refer to the 1995 Supplement 3 for information related to 1995 data. It should also be noted that this documentation does not include any cases where simple recodes of the national data were made to produce data that is comparable internationally in the international variables (e.g., option reversals).

In the 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 database.

This code is used for questions that were to be defined by the country and the specific national version is considered appropriate for comparison.<sup>1</sup> To assist the user in data interpretation of these questions, some brief documentation is included to describe the national version of the questions. Some documentation of changes between 1995 and 1999 are also included.

- Code X: National data for country are NOT included in the international database.

This code is used to refer to all questions that were not administered, not applicable, or deleted for any of several reasons (e.g. not internationally comparable, removed per country 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 available'. 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 National Research Coordinators (NRC) at the time this document was published. The review of national

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<sup>1</sup> This code was also used when no national modifications were made to questions and the data from ALL countries was considered to be internationally comparable.

adaptations was instituted for the majority of the background questionnaire items and, in particular, for any of the questions that were used for reporting the background data in the international reports.

For further information and review of the questionnaires as administered in each country, the IEA has made available an electronic database with the questionnaires from each country.

## **General Documentation Issues for Questionnaire Items**

### **General Science and Separate Science Versions of the Student Questionnaires**

Two versions of the student questionnaire were administered in TIMSS 1999: a general science version (identified as SQ2) and a separate science version (identified as SQ2S). Countries administered the version of the questionnaire that was most appropriate based on the way science was taught to their 8<sup>th</sup> graders. The general science version was used in countries where science is taught in integrated science classes. The separate science version was used in countries where the sciences are each taught as separate subjects (biology, earth science, chemistry, and physics). Students in each country have valid data only for those variables associated with the version of the questionnaire administered in their country.

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 separate science and general science versions. As a result, these countries were handled somewhat differently in the international database and report tables or figures. All of these special cases are listed below.

#### *Special Cases for the Student Questionnaires*

**Belgium (Flemish):** Administered the separate science questionnaire, but excluded the chemistry questions.

**Chinese Taipei:** Students enrolled in grade 8 take physics/chemistry. Biology is taught in grade 7 and Earth science in grade 9. They administered the general science version of questionnaire. Questions pertain to "natural science".

**Indonesia:** Administered the general science questionnaire; however, the data pertain to 'IPA' courses, which are composite courses taught by biology and physics teachers.

**Latvia:** Administered the separate science questionnaire, but excluded the Earth science questions.

**Lithuania:** Administered the separate science questionnaire, but excluded the Earth science questions.

**Netherlands:** Administered the separate science questionnaire; however, the physics data pertain to combined physics/chemistry courses; no separate data are included for chemistry.

**Slovenia:** Administered the separate science questionnaire, but excluded the Earth science questions.



# Section 1

Population 2  
Student Background Questionnaire





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**SQ2-01 / SQ2S-01****Question:**

On what date were you born?

- A: Day;
- B: Month;
- C: Year.

**Variable Name(s):** BSBGBIRD, BSBGBIRM, BSBGBIRY

**Link to 1995:** SQ2-01 / SQ2S-01

BSBGBIRD, BSBGBIRM, BSBGBIRY

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
Canada	SQ2-01A	X	Question not administered or data not available.

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**SQ2-02 / SQ2S-02****Question:**

Are you a girl or a boy?

- A: girl;
- B: boy.

**Variable Name(s):** BSBGSEX

**Link to 1995:** SQ2-02 / SQ2S-02

BSBGSEX

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
ALL	SQ2-02	D	Data considered internationally comparable for reporting.

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**SQ2-03 / SQ2S-03****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 the age of student (BSD/BIRM,.0087 Tc3dent (BSD/B

Canada	SQ2-03B	D	Modified from 95. Used categorical format. Error in French version categories in 95 corrected in 99. In both 95 and 99, the <1 category coded as 1.
Netherlands	SQ2S-03A	D	Used modified format; multiple-choice question asked in which country student was born (A = Netherlands). Recoded to fit international YES/NO format.
Netherlands	SQ2S-03B	D	Modified from 95. Revised to match international version; open-ended format replaced categorical format used in 95.

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#### SQ2-04 /SQ2S-04

**Question:**

How often do you speak <language of test> at home?  
 A: always or almost always;  
 B: sometimes;  
 C: never.

**Variable Name(s):** BSBGLANG

**Link to 1995:** SQ2-04 /SQ2S-04  
 BSBGLANG

**Trend Status:** Same question and response options administered in 1995.

Country	Item ID	Code	Comment
Hong Kong SAR	SQ2-04	D	Test was administered in both Chinese and English. Language question asked about both Chinese and English. Data correspond to either Chinese or English, depending on the language of the test used by the student (ITLANG). Students who used both languages on the test are coded as Not Administered.
Macedonia, Republic	SQ2S-04	D	Question not comparable in Albanian version of questionnaire (asked about 'Macedonian'); data deleted for Albanian students. Data retained for Macedonian students but not included in report table.
Singapore	SQ2-04	D	Modified from 95. Revised to match international version: For Option 1, "always or almost always" replaces 'always' in 95.

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#### SQ2-05 / SQ2S-05

**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?

**Variable Name(s):** BSBMEXTR, BSBSEXTR, BSBGCLUB, BSBGPAID

**Link to 1995:** SQ2-05 / SQ2S-05  
 BSBMEXTR, BSBSEXTR, BSBGCLUB, BSBGPAID

**Trend Status:** Same question and response options administered in 1995.

Country	Item ID	Code	Comment
England	SQ2-05A-D	D	Modified from 95. Revised to match international version: Option 5 ( "More than 5 hours") has replaced 2 options in 95 version: "6-10 hours" and "more than 10 hours". Both 95 and 99 have additional parts E & F (doing math/science homework/week) - not coded in international database.
Israel	SQ2-05A,B	D	Modified from 95. Question includes "at school"

Japan	SQ2-05A-D	D	Modified option 3 to '1 hour to less than 3 hours'
New Zealand	SQ2-05A-D	D	Modified from 95. For 99 version: "taking extra lessons/tuition in..."; for 95 version: "taking extra lessons in..."
Singapore	SQ2-05A-D	D	Modified from 95. Revised to match international version: categorical format has replaced open-ended format.

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### SQ2-06 / SQ2S-06

**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 outside of school;

:

I: studying or doing homework.

**Variable Name(s):** BSBGDAY1, BSBGDAY2, BSBGDAY3, BSBGDAY4, BSBGDAY5, BSBGDAY6, BSBMDAY7, BSBSDAY8, BSBGDAY9

**Link to 1995:** SQ2-06 / SQ2S-06

BSBGDAY1, BSBGDAY2, BSBGDAY3, BSBGDAY4, BSBGDAY5, BSBGDAY6, BSBMDAY7, BSBSDAY8, BSBGDAY9

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
England	SQ2-06G-I	X	Question not administered or data not available.
Japan	SQ2-06A-I	D	Modified option 3 to '1 hour to less than 3 hours'
Singapore	SQ2-06A-I	D	Modified from 95. Revised to match international version: categorical format has replaced open-ended format.

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**SQ2-07 / SQ2S-07****Question:**

A: How far in school did your mother go?

B: How far in school did your father go?

International response options:

- 1 = some primary school, or did not go to school;
- 2 = finished primary school;
- 3 = some secondary school;
- 4 = finished secondary school;
- 5 = some vocational/tec;
- 6 = some university;
- 7 = finished university;
- 8 = I don't know.

**Variable Name(s):** BSBGEDMO, BSBGEDFA**Link to 1995:** SQ2-09/1,2 / SQ2S-09/1,2

BSBGEDUM, BSBGEDUF

**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.

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Country	Item ID	Code	Comment
Australia	SQ2-07A,B	D	Modified from 95. Nationally defined options: 1 = "less than year 6 in primary school"; 5 = "some vocational/technical education..." ( replaced "apprentice or technical course..." in 95); 6 = "some university" (replaced "Part of a university course" in 95); 2,3,4,7,8 = comparable to international.
Belgium (FL)	SQ2S-07A,B	D	Modified from 95. Nationally defined options:: 1 = some years of basic school or did not go to school 2 = finished basic school 3 = finished lower secondary school 4 = finished higher secondary school 5 = post-secondary tertiary higher education outside university (coded as 'some university' option in 95) 6 = some years of university (not included in 95) 7 = finished university 8 = do not know
Canada	SQ2-07A,B	D	Nationally defined options: 6 = some university or college; 7 = finished university or college; 1,2,3,4,5,8 = comparable to international.
Chile	SQ2-07A,B	D	Nationally defined options: 2 = finished primary (grade 8); 4 = finished secondary (grade 12); 1,3,5,6,7,8 = comparable to international.
Cyprus	SQ2-07A,B	D	Modified from 95. Nationally defined options: 3 = Finished lower secondary (gymnasium - grade 9); 4 = Finished upper secondary; 5 = Voc./tech. Educ. After secondary; 6 = Some university (not included in 95); 7 = University degree (95 combined university degree and post-graduate studies); 1,2,8 = same as international version.
Czech Republic	SQ2S-07A,B	D	Nationally defined options: 1 = Not Included; 3 = Vocational training or secondary school without maturita; 4 = Vocational training or secondary with maturita; 2,5,6,7,8 = comparable to international.

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England	SQ2-07A,B	X	Question not administered or data not available.
Finland	SQ2S-07A,B	D	Nationally defined options: 1 = did not go to school, primary school, or part of lower secondary (< 9 years); 2 = finished primary school (about 9 years); 3 = some secondary school (10 - 11 years); 4 = finished secondary school (about 12 years); 5,6,7,8 = comparable to international.
Hungary	SQ2S-07A,B	D	Nationally defined options: 1 = Not Included; 2 = Some general school; 3 = Finished general school (grade 8); 4 = Combines two upper-secondary tracks: apprenticeship (3-year trade school) or final exam in secondary school (4-year academic/vocational); 5,6 = Not Included; 7 = University or college degree; 8 = Do Not Know.
Indonesia	SQ2-07A,B	D	Nationally defined options: 2 = finish primary school (SD) 4 = finish secondary (SMP, SMA, SMEA, STM, etc.) 5 = academy (<=3 yrs higher education - not univ.; can get diploma D1/D2/D3) 6 = some university (did not complete degree) 7 = completed university degree (Sarjana 1/2/3) 1,3,8 = comparable to international.
Italy	SQ2-07A,B	D	Nationally defined options: 3 = finish middle school; 4 = finish secondary school with maturita (classical/technical) or vocational training diploma (combines 2 options from 95); 5 = some vocational/professional course after secondary diploma (new to 99); 6 = some university (2-3 year short-course diploma); 7 = finish university (Laurea or Dottorato di Ricerca; 4-6 year diploma); 1,2,8 = comparable to international.
Japan	SQ2-07A,B	X	Question not administered or data not available.
Korea, Republic of	SQ2-07A,B	D	Nationally defined options: 2 = finished middle school, asked 'finished primary school' (Option 1) in 95; 3 = some high school, asked 'finished middle school' (Option 2) in 95; 1,4,5,6,7,8 = comparable to international.
Latvia (LSS)	SQ2S-07A,B	D	Nationally defined options: 4 = 'secondary or vocational school (11 yrs.)' ['secondary' in 95]; 5 = 'vocational school (post-secondary) or teknikum (3 yrs.); [professional/technical school or teknikum' in 95]; 6 = 'some higher education'; 7 = 'higher education (5 yrs.)'; 1,2,3,8 = comparable to international.
Lithuania	SQ2S-07A,B	D	Nationally defined options: 2 = basic school (gr 10); 3 = some secondary; 4 = finish secondary; 5 = vocational or agricultural school; 6 = college (technical, art, music); 7 = university or other higher education; 1,8 = comparable to international.
Netherlands	SQ2S-07A,B	D	Nationally defined options: 1 = some primary school or did not go to school; 2 = finished primary school (grade 8); 3 = some years of secondary school (mavo, havo, vwo) without diploma; 4 = finished secondary school with diploma; 5 = vocational/technical education after secondary (bv.heao, hts, pedagogical academy); 6 = some years at university (without diploma); 7 = university with diploma; 8 = do not know.

SQ2-07A,B

United States      SQ2-07A,B      D      Nationally defined options:  
 6 = some community college, college or university courses;  
 7 = completed bachelor's degree at college or university;  
 1,2,3,4,5,8 = comparable to international

**SQ2-08 / SQ2S-08**

**Question:**

How far do you expect to go in school?

International response options:

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

**Variable Name(s):** BSBGEDSE

**Link to 1995:** SQ2-09/3 / SQ2S-09/3  
 BSBGEDUS

**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.

Country	Item ID	Code	Comment
Australia	SQ2-08	D	Modified from 95. Nationally defined options: 3 = some vocational/technical education ( replaced ""apprentice or technical course..." in 95); 4 = some university (replaced ""Part of a university course"" in 95); 1,2,5,6 = comparable to international.
Belgium (FL)	SQ2S-08	D	Modified from 95. Nationally defined options: 1 = not included;

Czech Republic	SQ2S-08	D	Nationally defined options: 1 = Vocational training or secondary without maturita; 2 = Vocational training or secondary with maturita; 3 = Medium-Cycle Higher Education or Bachelor Studies (3-yrs. Of univ. study or special higher educ. After secondary);changed from 'tech./voc. Studies after secondary'; 4 = Not Included; 5 = Finish University (equivalent to Master's; usually 5 years university study); 6 = Do Not Know.
England	SQ2-08	X	Question not administered or data not available.
Hungary	SQ2S-08	D	Nationally defined options: 1 = Finished general school (grade 8); 2 = Combines two upper-secondary tracks: apprenticeship (3-year trade school) or final exam in secondary school (4-year academic/vocational); 3,4 = Not Included; 5 = University or college degree; 6 = Do Not Know.
Indonesia	SQ2-08	D	Nationally defined options: 2 = finish secondary (SMU); 3 = academy program diploma (<=3 yrs higher educ. Not univ. - can get diploma D1/D2/D3); 4 = some university (did not complete degree); 5 = complete university (Sarjana 1/2/3); 1,6 = comparable to international.
Italy	SQ2-08	D	Nationally defined options: 1 = finish middle school; 2 = finish secondary school with maturita (classical/technical) or vocational training diploma (combines 2 options from 95); 3 = some vocational/professional course after secondary diploma (new to 99); 4 = some university (2-3 year short-course diploma); 5 = finish university (Laurea; 4-5 year diploma); 6 = Do not know.
Japan	SQ2-08	D	Nationally defined options: 1 = Lower Secondary; 2 = Upper Secondary; 3 = Some vocat./tech. Educ. after secondary or 2-year college; 4 = Not Included; 5 = University or Graduate school after university; 6 = Do Not Know.
Latvia (LSS)	SQ2S-08	D	Nationally defined options: 2 = 'secondary or vocational school (12 yrs.)' ['secondary' in 95]; 3 = 'vocational school (post-secondary) or teknikum (2 yrs.); [professional/technical school or teknikum' in 95]; 4 = 'some higher education'; 5 = 'higher education (at least 4 yrs.)'; 6 = comparable to international.
Lithuania	SQ2S-08	D	Nationally defined options: 3 = vocational or agricultural school; 4 = college (technical, art, music); 5 = university or other higher education; 6 = do not know; 1,2 = comparable to international.
Netherlands	SQ2S-08	D	Nationally defined options: 1 = some years of secondary school (mavo, havo, vwo) without diploma; 2 = finished secondary school with diploma; 3 = vocational/technical education after secondary (bv.heao, hts, pedagogical academy); 4 = some years at university (without diploma); 5 = university with diploma; 6 = do not know.



New Zealand	SQ2-08	D	Nationally defined options: 1 = some secondary; 2 = finish secondary; 3 = certificate course at polytech; 4 = degree or national diploma course at polytech; 5 = college of education (teacher training) ("teachers college" in 95); 6 = some university; 7 = finish university; 8 = other; 9 = do not know.
Philippines	SQ2-08	D	Nationally defined options: 1= some High School; 2= finished High School; 3= some vocational/technical education after high school; 4= some college/university; 5= finished college/university; 6= I don't know.
Romania	SQ2S-08	D	Nationally defined options: 1 = did not complete senior secondary (asked finished junior secondary in 95); 2 = finished senior secondary (liceu); 3 = post-secondary school (95 version specified technical school); 4 = did not complete university (worded differently from 95); 5 = finished university (worded differently from 95); 6 = do not know.
Singapore	SQ2-08	D	Nationally defined options: 1 = Not Included; 2 = Secondary School; 3 = Pre-U/Polytechnics [includes GCE 'A' level, which is 2 years of additional schooling after completing secondary school]; 4 = Not Included; 5 = University; 6 = Not Sure.
Slovak Republic	SQ2S-08	D	Nationally defined options: 1 = some secondary school (sec. School without maturita in 95); 2 = finished secondary school (sec. School with maturita in 95); 3 = some voc./tech. school after secondary (finish tech. Educ after second. In 95); 4 = some university (different term in 95); 5 = finish university (different term in 95); 6 = comparable to international.
Slovenia	SQ2S-08	D	Nationally defined options: 2 = finished gymnasium or secondary school (gymnasium or specialized secondary school in 95); 3 = vocational or technical education after secondary (vocational education after secondary in 95); 4 = some university (wording modified from 95); 5 = complete university study (wording modified from 95); 1,6 = comparable to international.
South Africa	SQ2-08	D	Nationally defined options: 3 = finished technikon; 1,2,4,5,6 = reworded slightly to match international version.
Thailand	SQ2-08	D	Nationally defined options: 1 = finished lower secondary; 2 = combines two upper-secondary tracks (academic and vocational/technical); 3 = not included; 4 = diploma/undergraduate level (higher certificate, 2 yrs.); 5 = graduate level (finished tertiary education, 4 yrs.); 6 = do not know.
Tunisia	SQ2-08	D	Nationally defined options: 5 = BA; 1,2,3,4,6 = comparable to international.

United States      SQ2-08      D      Nationally defined options:  
4 = some community college, college or university courses;  
5 = finish community college, college or university (changed from 95 version);  
1,2,3,6 = comparable to international.

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**SQ2-09 / SQ2S-09**

**Question:**

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

**Variable Name(s):** BSBGBRNM, BSBGBRNF

**Link to 1995:** SQ2-10 / SQ2S-10  
BSBGBRNM, BSBGBRNF

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
England	SQ2-09A,B	D	Modified from 95. Revised to match international version: Option 3 "Not sure" in 95 version is removed.
Japan	SQ2G-09A,B	X	Question not administered or data not available.

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**SQ2-10 / SQ2S-10**

**Question:**

About how many y6C;BRN Tm 0 166.8 509.76 Tm /F0 8.0

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**SQ2-11A-P / SQ2S-11A-P****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>;

F: <country-specific>;

.

P: <country-specific>.

**Variable Name(s):** BSBGPS01 - BSBGPS16,

**Link to 1995:** SQ2-12A-P / SQ2S-12A-P

BSBGPS01 - BSBGPS16

**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.

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Country	Item ID	Code	Comment
Australia	SQ2-11E	D	Your own bookshelves
Australia	SQ2-11F	D	Your own wardrobe
Australia	SQ2-11G	D	dishwashing machine
Australia	SQ2-11H	D	More than two telephones
Australia	SQ2-11I-P	X	Question not administered or data not available.
Belgium (FL)	SQ2S-11E	D	video recorder
Belgium (FL)	SQ2S-11F	D	CD-player
Belgium (FL)	SQ2S-11G	D	garage for two cars
Belgium (FL)	SQ2S-11H	D	bathroom with a toilet
Belgium (FL)	SQ2S-11I	D	micro-wave oven
Belgium (FL)	SQ2S-11J	D	cordless telephone
Belgium (FL)	SQ2S-11K	D	video camera
Belgium (FL)	SQ2S-11L	D	separate shower
Belgium (FL)	SQ2S-11M	D	garden
Belgium (FL)	SQ2S-11N	D	central heating
Belgium (FL)	SQ2S-11O	D	guest-room
Belgium (FL)	SQ2S-11P	D	swimming pool
Bulgaria	SQ2S-11E	D	encyclopedia
Bulgaria	SQ2S-11F	D	solving problem book
Bulgaria	SQ2S-11G	D	AC/CD player
Bulgaria	SQ2S-11H	D	Videoplayer
Bulgaria	SQ2S-11I	D	car
Bulgaria	SQ2S-11J-P	X	Question not administered or data not available.
Canada	SQ2-11E	D	your own bookshelves and books
Canada	SQ2-11F	D	CD or video player in your own room
Canada	SQ2-11G	D	your own television

Canada

SQ2-11H

D your own telephone

Hong Kong SAR	SQ2-11H	D	washing machine
Hong Kong SAR	SQ2-11I	D	clothes dryer
Hong Kong SAR	SQ2-11J	D	air conditioner
Hong Kong SAR	SQ2-11K	D	laser disc player
Hong Kong SAR	SQ2-11L	D	karaoke
Hong Kong SAR	SQ2-11M	D	car
Hong Kong SAR	SQ2-11N	D	own room
Hong Kong SAR	SQ2-11O	D	two or more bathrooms
Hong Kong SAR	SQ2-11P	D	room for domestic helper
Hungary	SQ2S-11D	D	Modified from 95. Asked 'dictionary' in 99; was 'encyclopedia' in 95.
Hungary	SQ2S-11E	D	Modified from 95. Asked 'encyclopedia' in 99; was 'dictionary' in 95'.
Hungary	SQ2S-11F	D	car
Hungary	SQ2S-11G	D	telephone
Hungary	SQ2S-11H	D	video player
Hungary	SQ2S-11I	D	own room
Hungary	SQ2S-11J	D	own computer
Hungary	SQ2S-11K	D	own study corner
Hungary	SQ2S-11L	D	own books
Hungary	SQ2S-11M	D	own television
Hungary	SQ2S-11N-P	X	Modified from 95. Asked 'dictionary' in 99; was 'encyclopedia' in 95
Indonesia	SQ2-11E	D	Television
Indonesia	SQ2-11F	D	Radio
Indonesia	SQ2-11G-P	X	Question not administered or data not available.
Iran, Islamic Rep.	SQ2-11E	D	radio
Iran, Islamic Rep.	SQ2-11F	D	television
Iran, Islamic Rep.	SQ2-11G	D	telephone
Iran, Islamic Rep.	SQ2-11H	D	car
Iran, Islamic Rep.	SQ2-11I	D	electric lighting
Iran, Islamic Rep.	SQ2-11J	D	mobile phone
Iran, Islamic Rep.	SQ2-11K-P	X	Question not administered or data not available.
Israel	SQ2-11E	D	encyclopedia
Israel	SQ2G-11F	D	video recorder
Israel	SQ2G-11G	D	dryer
Israel	SQ2G-11H	D	dishwasher
Israel	SQ2G-11I	D	2 televisions
Israel	SQ2G-11J	D	microwave oven
Israel	SQ2G-11K	D	Hebrew = 'cordless phone'; Arabic = 'cellular phone'.
Israel	SQ2G-11L	D	CD player
Israel	SQ2G-11M	D	air conditioner
Israel	SQ2G-11N	D	vacuum cleaner
Israel	SQ2G-11O	D	camera

Israel

SQ2G-11P

D

Latvia (LSS)	SQ2S-11J	D	Audio recorder	
Latvia (LSS)	SQ2S-11K	D	Compact disc player in 99. Record player in 95.	
Latvia (LSS)	SQ2S-11L	D	Electronic gameboard	
Latvia (LSS)	SQ2S-11M	D	Walker	
Latvia (LSS)	SQ2S-11N	D	Bicycle	
Latvia (LSS)	SQ2S-11O	D	Coffee maker	
Latvia (LSS)	SQ2S-11P	D	Own room	
Lithuania	SQ2S-11B	D	Modified from 95. Asked "personal Computer" in 99.	
Lithuania	SQ2S-11E	D	encyclopedia	
Lithuania	SQ2S-11F	D	two televisions	
Lithuania	SQ2S-11G	D	VCR	
Lithuania	SQ2S-11H	D	home music center	
Lithuania	SQ2S-11I	D	musical instrument (e.g., piano)	
Lithuania	SQ2S-11J-P	X	Question not administered or data not available.	
Macedonia, Republic	SQ2S-11E	D	video	
Macedonia, Republic	SQ2S-11F	D	telephone	
Macedonia, Republic	SQ2S-11G	D	car	
Macedonia, Republic	SQ2S-11H	D	washing machine	
Macedonia, Republic	SQ2S-11I	D	television	
Macedonia, Republic	SQ2S-11J	D	pictures	
Macedonia, Republic	SQ2S-11K	D	books	
Macedonia, Republic	SQ2S-11L	D	own room	
Macedonia, Republic	SQ2S-11M	D	bicycle	
Macedonia, Republic	SQ2S-11N-P	D	Questionnot administered or data not available	
Malaysia	SQ2-11E	D	reference books.	
Malaysia	SQ2-11F	D	video	
Malaysia	SQ2-11G-P	X	Question not administered or data not available.	
Moldova	SQ2S-11E	D	video tape recorder	
Moldova	SQ2S-11F	D	video camera	
Moldova	SQ2S-11G	D	2 or more color televisions	
Moldova	SQ2S-11H	D	automobile	
Moldova	SQ2S-11I	D	own room (in house or apartment)	
Moldova	SQ2S-11J	D	separate apartment	
Moldova	SQ2S-11K	D	individual home	
Moldova	SQ2S-11L	D	villa (house with a garden)	
Moldova	SQ2S-11M-P	X	Question not administered or data not available.	
Morocco	SQ2S-11E	D	separate apartment	D separate apartment

Morocco	SQ2S-11J	D	special mathematics books
Morocco	SQ2S-11K	D	scientific dictionary
Morocco	SQ2S-11L	D	math and science books
Morocco	SQ2S-11M-P	X	Question not administered or data not available.
Netherlands	SQ2S-11E	D	CD player in own room
Netherlands	SQ2S-11F	D	VCR in own room
Netherlands	SQ2S-11G	D	Encyclopedia
Netherlands	SQ2S-11H	D	Daily newspaper
Netherlands	SQ2S-11I	D	Weekly magazines
Netherlands	SQ2S-11J	D	Atlas or globe
Netherlands	SQ2S-11K	D	Microscope
Netherlands	SQ2S-11L	D	Binoculars or telescope
Netherlands	SQ2S-11M-P	X	Question not administered or data not available.
New Zealand	SQ2-11E	D	Television
New Zealand	SQ2-11F	D	Musical instruments
New Zealand	SQ2-11G	D	CD player
New Zealand	SQ2-11H	D	Video camera
New Zealand	SQ2-11I	D	Video games
New Zealand	SQ2-11J	D	Microwave
New Zealand	SQ2-11K	D	Clothes dryer
New Zealand	SQ2-11L	D	Dishwasher
New Zealand	SQ2-11M	D	Two bathrooms
New Zealand	SQ2-11N	D	Second car/motorbike
New Zealand	SQ2-11O	D	Encyclopedias
New Zealand	SQ2-11P	D	Mobile or cellular phone
Philippines	SQ2-11E	D	encyclopedia
Philippines	SQ2-11F	D	television
Philippines	SQ2-11G	D	radio
Philippines	SQ2-11H	D	VHS/Betamax
Philippines	SQ2-11I-P	X	Question not administered or data not available.
Romania	SQ2S-11D	D	dictionary or encyclopedia
Romania	SQ2S-11E	D	geographical atlas or maps
Romania	SQ2S-11F	D	experimental tools
Romania	SQ2S-11G	D	aquarium or pets
Romania	SQ2S-11H	D	apartment flowers
Romania	SQ2S-11I	D	television set
Romania	SQ2S-11J	D	radio, receiver, video
Romania	SQ2S-11K	D	projector, camera
Romania	SQ2S-11L	D	car
Romania	SQ2S-11M	D	musical instruments
Romania	SQ2S-11N	D	cooker



Romania	SQ2S-11O	D	refridgerator/freezer
Romania	SQ2S-11P	D	tool box
Russian Federation	SQ2S-11E	D	video tape recorder
Russian Federation	SQ2S-11F	D	video camera
Russian Federation	SQ2S-11G	D	mobile telephone
Russian Federation	SQ2S-11H	D	two or more TVs with remote control
Russian Federation	SQ2S-11I	D	piano
Russian Federation	SQ2S-11J	D	car (one or more)
Russian Federation	SQ2S-11K	D	own room
Russian Federation	SQ2S-11L-P	X	Question not administered or data not available.
Singapore	SQ2-11E	D	microwave/oven
Singapore	SQ2-11F	D	car
Singapore	SQ2-11G	D	air-conditioner
Singapore	SQ2-11H	D	piano/organ/violin
Singapore	SQ2-11I	D	domestic help (e.g, maid)
Singapore	SQ2-11J-P	X	Question not administered or data not available.
Slovak Republic	SQ2S-11E	D	internet
Slovak Republic	SQ2S-11F	D	Encyclopedia
Slovak Republic	SQ2S-11G	D	computer games
Slovak Republic	SQ2S-11H	D	CD player
Slovak Republic	SQ2S-11I	D	bicycle
Slovak Republic	SQ2S-11J	D	own room
Slovak Republic	SQ2S-11K	D	professional journal (magazine)
Slovak Republic	SQ2S-11L	D	tape recorder
Slovak Republic	SQ2S-11M	D	chess set
Slovak Republic	SQ2S-11N	D	car
Slovak Republic	SQ2S-11O	D	cottage (vacation)
Slovak Republic	SQ2S-11P	D	skis
Slovenia	SQ2S-11D	D	Dictionary of foreign language.
Slovenia	SQ2S-11E	D	own room
Slovenia	SQ2S-11F	D	daily newspaper
Slovenia	SQ2S-11G	D	garden
Slovenia	SQ2S-11H	D	video recorder
Slovenia	SQ2S-11I	D	pet
Slovenia	SQ2S-11J	D	small holiday house (weekend house)
Slovenia	SQ2S-11K	D	Atlas of Slovenia or World Atlas
Slovenia	SQ2S-11L	D	bicycle
Slovenia	SQ2S-11M	D	satellite television or cable tv
Slovenia	SQ2S-11N	D	Photo or video camera
Slovenia	SQ2S-11O	D	mobile telephone
Slovenia	SQ2S-11P	D	dictionary of Slovene language

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South Africa	SQ2-11E	D	electricity
South Africa	SQ2-11F	D	running tap water
South Africa	SQ2-11G	D	television
South Africa	SQ2-11H	D	video player
South Africa	SQ2-11I	D	CD player
South Africa	SQ2-11J	D	radio
South Africa	SQ2-11K	D	bedroom used only by you
South Africa	SQ2-11L	D	water-flushed toilet
South Africa	SQ2-11M	D	motor car
South Africa	SQ2-11N	D	own bicycle
South Africa	SQ2-11O	X	Question not administered or data not available.
South Africa	SQ2-11P	X	Question not administered or data not available.
Thailand	SQ2-11E	D	motorcycle
Thailand	SQ2-11F	D	car
Thailand	SQ2-11G	D	television
Thailand	SQ2-11H	D	satellite disk
Thailand	SQ2-11I	D	tape recorder
Thailand	SQ2-11J	D	radio
Thailand	SQ2-11K	D	telephone
Thailand	SQ2-11L	D	fax machine
Thailand	SQ2-11M	D	gas stove
Thailand	SQ2-11N	D	microwave oven
Thailand	SQ2-11O	D	air conditioner
Thailand	SQ2-11P	D	refridgerator
Tunisia	SQ2-11E	D	electricity
Tunisia	SQ2-11F	D	drawers
Tunisia	SQ2-11G	D	shelf
Tunisia	SQ2-11H	D	television
Tunisia	SQ2-11I	D	square
Tunisia	SQ2-11J	D	compass
Tunisia	SQ2-11K	D	protractor
Tunisia	SQ2-11L	D	ruler
Tunisia	SQ2-11M-P	D	Question not administered or data not available.
Turkey	SQ2-11E-P	X	Question not administered or data not available.
United States	SQ2-11E	D	atlas
United States	SQ2-11F	D	encyclopedia set
United States	SQ2-11G	D	portable compact disk (CD) player
United States	SQ2-11H	D	recreational vehicle (e.g., camper, motor home, etc.)
United States	SQ2-11I	D	stereo system with a compact disc (CD) player
United States	SQ2-11J	D	telephone answering machine
United States	SQ2-11K	D	3 or more cars, vans, small trucks

United States	SQ2-11L	D	video camera
United States	SQ2-11M	D	video game system
United States	SQ2-11N	D	video recorder (VCR)
United States	SQ2-11O	D	"walkman" (small portable tape player with stereo headphones)
United States	SQ2-11P	D	laptop or notebook computer

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### SQ2-12 / SQ2S-12

**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: have time to have fun;  
 E: be good at sports.

**Variable Name(s):** BSBSMIP1, BSBMMIP2, BSBGMIP3, BSBGMIP5, BSBGMIP4

**Link to 1995:** SQ2-13 / SQ2S-13

BSBSMIP1, BSBMMIP2, BSBGMIP3, BSBGMIP4, BSBGMIP5, BSBGMIP6

**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.

Country	Item ID	Code	Comment
Hong Kong SAR	SQ2-12C	D	Asked about English only.
Hungary	SQ2S-12D	D	Modified from 95. Translated as 'to be in a good mood' in 95; revised to match international version in 99.

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### SQ2-13 / SQ2S-13

**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.

**Variable Name(s):** BSBMCLS1, BSBMCLS2, BSBMCLS3

**Link to 1995:** SQ2-14 / SQ2S-14

BSBMCLS1, BSBMCLS2, BSBMCLS3

**Trend Status:** Same question and response options administered in 1995.

Country	Item ID	Code	Comment
Italy	SQ2-13A-C	D	Modified from 95. Revised stem to match international version; 99 version refers to 'in mathematics class'. In 95 a general question was asked; mathematics class not specified.

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**SQ2-14 / SQ2S-14****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.

**Variable Name(s):** BSBSFIP1, BSBMFIP2, BSBGFIP3, BSBGFIP4, BSBGFIP5

**Link to 1995:** SQ2-15 / SQ2S-15

BSBSFIP1, BSBMFIP2, BSBGFIP3, BSBGFIP4, BSBGFIP5, BSBGFIP6

**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.

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<b>Country</b>	<b>Item ID</b>	<b>Code</b>	<b>Comment</b>
Hong Kong SAR	SQ2-14C	D	Asked about English only.
Hungary	SQ2S-14D	D	

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**SQ2-16A / SQ2S-16A****Question:**

I usually do well in mathematics.  
A: strongly agree;  
B: agree;  
C: disagree;  
D: strongly disagree.

**Variable Name(s):** BSBMGOOD**Link to 1995:** SQ2-17A / SQ2S-17A  
BSBMGOOD**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
ALL	SQ2-16A	D	Data considered internationally comparable for reporting.

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**SQ2-16B / --****Question:**

I usually do well in science.  
A: strongly agree;  
B: agree;  
C: disagree;  
D: strongly disagree.

(Corresponding question about the separate sciences included in SQ2S-16B, C, D, E)

**Variable Name(s):** BSBSGOOD**Link to 1995:** SQ2-17B / --  
BSBSGOOD**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
ALL	SQ2-16B	D	Data considered internationally comparable for reporting.

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**SQ2-17 / SQ2S-17****Question:**

How difficult do you think mathematics is?

- A: would like more if not so difficult;
- B: although do best, more difficult than for classmates;
- C: just not talented;
- D: Sometimes I know I will never understand it;
- E: Mathematics is not one of my strengths.

**Variable Name(s):** BSBMMYT1, BSBMMYT2, BSBMMYT3, BSBMMYT4, BSBMMYT5

**Link to 1995:** -- / --

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**Trend Status:** Question not administered in 1995.

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Country	Item ID	Code	Comment
Russian Federation	SQ2S-17A	X	Question not administered or data not available.

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**SQ2-18 / SQ2S-18****Question:**

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SQ2-19 / --

**Question:**

How difficult do you think science is?

A: would like more if not so difficult;

B: although do best, more difficult than for classmates;

C: just not talented;

D: Science is not one of my strengths.

**Variable Name(s):**

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Country	Item ID	Code	Comment
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**SQ2-21A / SQ2S-24A****Question:**

How much do you like mathematics?  
A: like a lot;  
B: like;  
C: dislike;  
D: dislike a lot.

**Variable Name(s):** BSBMLIKM**Link to 1995:** SQ2-21A / SQ2S-21A  
BSBMLIKE**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.

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Country	Item ID	Code	Comment
Canada	SQ2-21A	D	English version used response options of Strongly Agree/.../Strongly Disagree instead of Like a Lot/.../Dislike a Lot.
Netherlands	SQ2S-24A	X	Data deleted due to printing error; related data for question about 'enjoy learning 'mathematics' included in SQ2(S)-27A variable.

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**SQ2-21B / --****Question:**

How much do you like science?  
1: like a lot;  
2: like;  
3: dislike;  
4: dislike a lot.

(Corresponding question about the separate sciences included in SQ2S-24B, C, D, E)

**Variable Name(s):** BSBSLIKS**Link to 1995:** SQ2-21B / --  
BSBSLIKE**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.

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Country	Item ID	Code	Comment
Canada	SQ2-21B	D	English version used response options of Strongly Agree/.../Strongly Disagree instead of Like a Lot/.../Dislike a Lot.

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**SQ2-22 / SQ2S-25****Question:**

How much do you like using computers to learn in...

A: mathematics;

B: science.

1: do not use;

2: like a lot;

3: like;

4: dislike;

5: dislike a lot.

**Variable Name(s):** BSBMLUCM, BSBSLUCS

**Link to 1995:** SQ2-22 / SQ2S-22

BSBMCMLK, BSBSCMLK

**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.

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Country	Item ID	Code	Comment
Canada	SQ2-22A,B	D	Error in French version of question (omitted option 1). Data not available for French students.
Korea, Republic of	SQ2-22A,B	D	Modified from 95. Added Option 1
Macedonia, Republic	SQ2S-25B	D	Asked 'physics, chemistry, biology, or geography'.
Morocco	SQ2S-25A,B	D	Option 1 not included.
Netherlands	SQ2S-25A,B	D	Revised from 95 to match international version: first national option (Do Not Have Subject) dropped in 99.
Netherlands	SQ2S-25B	D	Includes combined data for three questions asking about using computers to learn biology, earth science and physics/chemistry (average degree of liking for all science subjects).
Slovenia	SQ2S-25B	D	Due to error in printing response options labels, data only comparable for collapsed categories (Like A Lot/Like).

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**SQ2-23 / SQ2S-26****Question:**

A: Do you have access to the internet...

Q

**Question:**S

Quest you have 5ccess toLink0g:n 0.8:84 552.36 Tm 0 0 0 rg 0.01 Tc 0.0435 435 9(BSBMCMLK, B24 CMLK) Tj 3

Lithuania	SQ2S-26B/d-g	X	Question not administered or data not available.
Philippines	SQ2-23A,B	X	Question not administered or data not available.

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### SQ2-24 / SQ2S-27

**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.

**Variable Name(s):**

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Country	Item ID	Code	Comment
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**SQ2-26 / SQ2S-29**

**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;

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**SQ2-28 / --****Question:**

Are you studying science in school this year?

A: yes;

B: no.

(Corresponding question about the separate sciences included in SQ2S-31A, B, C, D)

**Variable Name(s):** BSBSSCYE

**Link to 1995:** -- / --

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**Trend Status:** Question not administered in 1995.

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Country	Item ID	Code	Comment
New Zealand	SQ2-28	D	Data obtained from the ministry; all students study science.

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**SQ2-29 / --****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.

(Corresponding question about the separate sciences included in SQ2S-32, 36, 40, 44)

**Variable Name(s):** BSBSJY, BSBSBORE, BSBSEASY, BSBSLIFE, BSBSWORK

**Link to 1995:** SQ2-28 / --

BSBSJY, BSBSBORE, BSBSEASY, BSBSLIFE, BSBSWORK

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
ALL	SQ2-29A-E	D	Data considered internationally comparable for reporting.

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**SQ2-30 / --****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 secondary school or university I prefer;  
D: to please myself.

(Corresponding question about the separate sciences included in SQ2S-33, 37, 41, 45)

**Variable Name(s):** BSBSJOB, BSBSPRNT, BSBSSCHL, BSBSESELF

**Link to 1995:** SQ2-29 / --  
BSBSJOB, BSBSPRNT, BSBSSCHL, BSBSESELF

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
Malaysia	SQ2-30C	D	Asked 'to get into polytechnic or university...'
New Zealand	SQ2-30C	D	Modified from 95: "to get into the polytechnic, university, or other tertiary course I prefer" has replaced "to get into the polytechnic or university course I prefer"

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**SQ2-31 / --****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;  
:  
U: The teacher gets interrupted by messages, visitors, etc.;  
V: The teacher uses computer to demonstrate ideas.

(Corresponding question about the separate sciences included in SQ2S-34, 38, 42, 46)

**Variable Name(s):** BSBSPROB, BSBSNOTE, BSBSTEST, BSBSPROJ, BSBSWSHT, BSBSCALC, BSBSCOMP, BSBSEVLF, BSBSSGRP, BSBSHWGV, BSBSHWCL, BSBSHWTC, BSBSHWFC, BSBSHWDS, BSBSDEMO, BSBSEXP, BSBSUSBT, BSBSUSOT, BSBSUSBS, BSBSUSOS, BSBSRUPT, BSBSIDEA

**Link to 1995:** SQ2-31 / --  
BSBSPROB, BSBSNOTE, BSBSTEST, BSBSPROJ, BSBSWSHT, BSBSCALC, BSBSCOMP, BSBSEVLF, BSBSSGRP, BSBSHWGV, BSBSHWCL, BSBSHWTC, BSBSHWFC, BSBSHWDS, BSBSDEMO, BSBSEXP

**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.

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Country	Item ID	Code	Comment
South Africa	SQ2-31G	X	Question not administered or data not available.
South Africa	SQ2-31V	X	Question not administered or data not available.

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**SQ2-32 / --****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;
- D: having the teacher ask what we know;
- E: looking at textbook while teacher talks about it;
- F: trying to solve an example related to new topic.

(Corresponding question about the separate sciences included in SQ2S-35, 39, 43, 47)

**Variable Name(s):** BSBSRULE, BSBSPRAC, BSBSSMGP, BSBSASK, BSBSTXBK, BSBSEG

**Link to 1995:** SQ2-32 / --

BSBSRULE, BSBSPRAC, BSBSSMGP, BSBSASK, BSBSTXBK, BSBSEG

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
Australia	SQ2-32B	D	Modified from 95. Modified wording to match international version: "discussing a practical or story problem related to everyday life" has replaced "discussing a problem related to everyday life".

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**SQ2-33 / SQ2S-48****Question:**

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

- A: mother;
- B: father;
- C: one or more brothers;
- :
- I: another person or persons (not relatives).

**Variable Name(s):** BSBGADU1, BSBGADU2, BSBGADU3, BSBGADU4, BSBGADU5, BSBGADU6, BSBGADU7, BSBGADU8, BSBGADU9

**Link to 1995:** SQ2-07 / SQ2S-07

BSBGADU1, BSBGADU2, BSBGADU3, BSBGADU4, BSBGADU5, BSBGADU6, BSBGADU7, BSBGADU8, BSBGADU9

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
Australia	SQ2-33A-I	X	Question not administered or data not available.
Canada	SQ2-11K-P	X	Question not administered or data not available.
England	SQ2-33A-I	D	Modified from 95. Revised to match international version: format changed from check boxes to Yes/No.
Italy	SQ2-33A-I	X	Question not administered or data not available.
Japan	SQ2-33A-I	X	Question not administered or data not available.
Lithuania	SQ2S-48A-I	X	Question not administered or data not available.
Macedonia, Republic	SQ2S-48A-I	X	Question not administered or data not available.
Netherlands	SQ2S-48A-I	X	Question not administered or data not available.
New Zealand	SQ2-33A-I	X	Question not administered or data not available.

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Singapore	SQ2-33A-I	X	Question not administered or data not available.
Slovak Republic	SQ2S-48I	D	Modified from 95: Added part I

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### SQ2-34 / SQ2S-49

**Question:**

Altogether, how many people live in your home?

**Variable Name(s):** BSBGHOME

**Link to 1995:** SQ2-08 / SQ2S-08  
BSBGHOME

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
Australia	SQ2-34	D	Modified from 95. Revised to match international version: open-ended format replaces categorical format in 95. Modified context: Question asked out of order in 99 as #9c; preceding questions, SQ2-33A-I, not included.
Canada	SQ2-34	X	Question not administered or data not available.
Japan	SQ2-34	X	Question not administered or data not available.
Macedonia, Republic	SQ2S-49	X	Question not administered or data not available.
Netherlands	SQ2S-49	X	Question not administered or data not available.
New Zealand	SQ2-34	X	Question not administered or data not available.
Singapore	SQ2-34	X	Question not administered or data not available.

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### SQ2-35 / SQ2S-50

**Question:**

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





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**SQ2-37 / SQ2S-52****Question:**

How often did any of these things happen last month in school?

- A: I skipped class;
  - B: something of mine was stolen;
  - C: I thought another student might hurt me;
  - D: some of my friends skipped class;
  - E: some of my friends had things stolen;
  - F: some of my friends were hurt by other students.
- 1: never;
  - 2: once or twice;
  - 3: 3-4 times;
  - 4: 5 or more.

**Variable Name(s):** BSBGSSKP, BSBGSSTL, BSBGSHRT, BSBGFSKP, BSBGFSTL, BSBGFHRT

**Link to 1995:** SQ2-18 / SQ2S-18

BSBGSSKP, BSBGSSTL, BSBGSHRT, BSBGFSKP, BSBGFSTL, BSBGFHRT

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
Australia	SQ2-37A-F	X	Question not administered or data not available.
Belgium (FL)	SQ2S-52A-F	X	Question not administered or data not available.
England	SQ2-37A-F	X	Question not administered or data not available.
Hungary	SQ2S-52A-F	D	

Netherlands	SQ2S-53A-F	X	Question not administered or data not available.
New Zealand	SQ2-38A-F	X	Question not administered or data not available.

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### SQ2-39 / SQ2S-54

**Question:**

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

- 1: Biology;
- 2: Chemistry;
- 3: Earth Science;
- 4: Physics.

**Variable Name(s):** BSBSCARE

**Link to 1995:** SQ2-30 / --  
BSBSCARE

**Trend Status:** Same question and response options administered in 1995.

Country	Item ID	Code	Comment
Belgium (FL)	SQ2S-54	X	Question not administered or data not available.
England	SQ2-39	X	Question not administered or data not available.
Finland	SQ2S-54	D	Option 3 = 'Geography'.
Latvia (LSS)	SQ2S-54	D	Option 3 (Earth Science) not included.
Lithuania	SQ2S-54	D	Option 3 (Earth Science) not included.
Macedonia, Republic	SQ2S-54	X	Question not administered or data not available.
Malaysia	SQ2-39	X	Question not administered or data not available.
Moldova	SQ2S-54	D	Option 3 = 'geography'.
Netherlands	SQ2S-54	X	Question not administered or data not available.
New Zealand	SQ2-39	X	Question not administered or data not available.
Romania	SQ2S-54	D	Option 3 = 'Geography'.
Russian Federation	SQ2S-54	X	Question not administered or data not available.

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### -- / SQ2S-16B

**Question:**

How well do you usually do in biological science?

(Corresponding question about general science included in SQ2-16B)

**Variable Name(s):** BSBBGOOD

**Link to 1995:** -- / SQ2S-17B  
BSBBGOOD

**Trend Status:** Same question and response options administered in 1995.

Country	Item ID	Code	Comment
ALL	SQ2S-16B	D	Data considered internationally comparable for reporting.

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-- / SQ2S-16C

**Question:**

How well do you usually do in earth science?

**Variable Name(s):** BSBEGOOD

**Link to 1995:**

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Country	Item ID	Code	Comment
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**-- / SQ2S-16E****Question:**

How well do you usually do in physics?

(Corresponding question about general science included in SQ2-16B)

**Variable Name(s):** BSBPGOOD**Link to 1995:** -- / SQ2S-17D

BSBPGOOD

**Trend Status:** Question not administered in 1995.

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Country	Item ID	Code	Comment
Netherlands	SQ2S-16E	D	Includes Physics/Chemistry (combined class) data.

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**-- / SQ2S-19****Question:**

How difficult do you think biological science is?

A: would like more if not so difficult;

B: although do best, more difficult than for classmates;

C: just not talented;

D: Biological science is not one of my strengths.

(Corresponding question about general science included in SQ2-19)

**Variable Name(s):** BSBSBYT1, BSBSBYT2, BSBSBYT3, BSBSBYT4**Link to 1995:** -- / --

-- / --

**Trend Status:** Question not administered in 1995.

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Country	Item ID	Code	Comment
Russian Federation	SQ2S-19A	X	Question not administered or data not available.

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**-- / SQ2S-20****Question:**

How difficult do you think earth science is?

A: would like more if not so difficult;

B: although do best, more difficult than for classmates;

C: just not talented;

D: Earth science is not one of my strengths.

(Corresponding question about general science included in SQ2-19)

**Variable Name(s):** BSBSEYT1, BSBSEYT2, BSBSEYT3, BSBSEYT4**Link to 1995:** -- / --

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**Trend Status:** Question not administered in 1995.

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Country	Item ID	Code	Comment
Finland	SQ2S-20A-D	D	Includes 'Geography'.

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Latvia (LSS)	SQ2S-20A-D	X	Earth Science questions not administered or not applicable.
Lithuania	SQ2S-20A-D	X	Earth Science questions not administered or not applicable.
Macedonia, Republic	SQ2S-20A-D	D	Asked 'Geography'.
Russian Federation	SQ2S-20A	X	Question not administered or data not available.
Slovenia	SQ2S-20A-D	X	Asked about "geography"; data deleted as not applicable.

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**-- / SQ2S-21**

**Question:**

How difficult do you think chemistry is?

A: would like more if not so difficult;

B: although do best, more difficult than for classmates;

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**-- / SQ2S-24B****Question:**

How much do you like biological science?

(Corresponding question about general science included in SQ2-21B)

**Variable Name(s):** BSBBLIKE**Link to 1995:** -- / SQ2S-21B

BSBBLIKE

**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.

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Country	Item ID	Code	Comment
Netherlands	SQ2S-24B	X	Data deleted due to printing error; related data for question about 'enjoy learning 'biology' included in SQ2(S)-32A variable.

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**-- / SQ2S-24C****Question:**

How much do you like earth science?

(Corresponding question about general science included in SQ2-21B)

**Variable Name(s):** BSBELIKE**Link to 1995:** -- / SQ2S-21C

BSBELIKE

**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.

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Country	Item ID	Code	Comment
Finland	SQ2S-24C	D	Includes 'Geography'.
Latvia (LSS)	SQ2S-24C	X	Earth Science questions not administered or not applicable.
Lithuania	SQ2S-24C	X	Earth Science questions not administered or not applicable.
Macedonia, Republic	SQ2S-24C	D	Asked 'Geography'.
Netherlands	SQ2S-24C	X	Question not administered or data not available; related data for question about 'enjoy learning earth science' included in SQ2(S)-40A variable.
Slovenia	SQ2S-24C	X	Asked about "geography"; data deleted as not applicable.

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-- / SQ2S-24D

**Question:**

How much do you like chemistry?

**Variable Name(s):** BSBCLIKE

**Link to 1995:** -- / SQ2S-21D

**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.

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Country	Item ID	Code	Comment
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SQ2S-31B



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**-- / SQ2S-34****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;

:

V: The teacher uses a computer to demonstrate ideas in biology.

(Corresponding question about general science included in SQ2-31)

**Variable Name(s):** BSBBPROB, BSBBNOTE, BSBBTEST, BSBBPROJ, BSBBWSHT, BSBBCALC, BSBBCOMP, BSBBEVLf, BSBBSGRP, BSBBHWGV, BSBBHWCL, BSBBHWTC, BSBBHWFC, BSBBHWDS, BSBBDEMO, BSBBEXPR, BSBBUSBT, BSBBUSOT, BSBBUSBS, BSBBUSOS, BSBBRUPT, BSBBIDEA

**Link to 1995:** -- / SQ2S-31

BSBBPROB, BSBBNOTE, BSBBTEST, BSBBPROJ, BSBBWSHT, BSBBCALC, BSBBCOMP, BSBBEVLf, BSBBSGRP, BSBBHWGV, BSBBHWCL, BSBBHWTC, BSBBHWFC, BSBBHWDS, BSBBDEMO, BSBBEXPR, BSBBUSBT, BSBBUSOT, BSBBUSBS, BSBBUSOS, BSBBRUPT, BSBBIDEA

**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.

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Country	Item ID	Code	Comment
Hungary	SQ2S-34C	D	Possible interpretation problem; asked about a special type of test.
Latvia (LSS)	SQ2S-34D	X	Question not administered or data not available.
Lithuania	SQ2S-34A-V	X	Question not administered or data not available.
Romania	SQ2S-34C	D	Data does not include the responses of Hungarian-speaking students
Slovenia	SQ2S-34D	D	Modified from 95: translation revised to match international version

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**-- / SQ2S-35****Question:**

When wSBBNVariable Name(s).08 0.0028 Tc 0.0641 T.0873 2 TD 0.0191 Tc 0.0s

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**-- / SQ2S-36****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.

(Corresponding question about general science included in SQ2-29)

**Variable Name(s):** BSBCENJY, BSBCBORE, BSBCEASY, BSBCLIFE, BSBCWORK

**Link to 1995:** -- / SQ2S-33

BSBCENJY, BSBCBORE, BSBCEASY, BSBCLIFE, BSBCWORK

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
Belgium (FL)	SQ2S-36A-E	X	Data for chemistry questions deleted; not applicable for grade 8 students.
Netherlands	SQ2S-36A-E	X	Chemistry questions not administered or data not applicable; Physics/Chemistry data reported in Physics variables (#44A-E).

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**-- / SQ2S-37****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 <secondary school> or university I prefer;
- D: to please myself.

(Corresponding question about general science included in SQ2-30)

**Variable Name(s):** BSBCJOB, BSBCPRNT, BSBCSCHL, BSBCSELF

**Link to 1995:** -- / SQ2S-34

BSBCJOB, BSBCPRNT, BSBCSCHL, BSBCSELF

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
Belgium (FL)	SQ2S-37A-D	X	Data for chemistry questions deleted; not applicable for grade 8 students.
Netherlands	SQ2S-37A-D	X	Chemistry questions not administered or data not applicable; Physics/Chemistry data reported in Physics variables (#45A-D).

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-- / SQ2S-38

Question:







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**TQM2A-1****Question:**

How old are you?  
A: under 25;  
B: 25-29;  
C: 30-39;  
D: 40-49;  
E: 50-59;  
F: 60 or more.

**Variable Name(s):** BTBGAGE

**Link to 1995:** TQM2A-1  
BTBGAGE

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
ALL	TQM2A-1	D	Data considered internationally comparable for reporting.

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**TQM2A-2****Question:**

Are you female or male?  
A: female;  
B: male.

**Variable Name(s):** BTBGSEX

**Link to 1995:** TQM2A-2  
BTBGSEX

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
ALL	TQM2A-2	D	Data considered internationally comparable for reporting.

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**TQM2A-3****Question:**

By the end of this year, how many years will you have been teaching altogether?  
(Format: Open-ended; numerical integer.)

**Variable Name(s):** BTBGTAUG

**Link to 1995:** TQM2A-7

BTBGTAUG

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
ALL	TQM2A-3	D	Data considered internationally comparable for reporting.

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**TQM2A-4****Question:**

In one typical calendar week, for how many single <hours/periods> are you <scheduled/time tabled> in one school week altogether?  
(Format: Open-ended; numerical integer.)

**Variable Name(s):** BTBGTOTL

**Link to 1995:** TQM2A-11

BTBGTOTL

**Trend Status:** Question not administered in 1995.

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Country	Item ID	Code	Comment
Australia	TQM2A-04	D	Data not consistent across all teachers due to interpretation issues. Not reliable as a reflection of the 'total' hours scheduled.
Canada	TQM2A-04	D	Modified from 95. In 99, hours/week data computed from two questions (Periods/week and Minutes/Period).
Cyprus	TQM2A-04	D	Asked total hours scheduled to 'teach'. Does not include time spent on other activities reported in A6. These other activities are not part of formally-scheduled school time.
Finland	TQM2A-04	D	Asked total hours scheduled to 'teach'. Does not include time spent on other activities reported in A6. These other activities are not part of formally-scheduled school time.
Italy	TQM2A-04	X	Question not administered or data not available.
Lithuania	TQM2A-04	D	Asked total hours scheduled to 'teach'. Does not include time spent on other activities reported in A6. These other activities are not part of formally-scheduled school time.

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**TQM2A-5A-I**

**Question:**

In one typical calendar week from Monday to Sunday, for how many periods are you scheduled to teach each of the following subjects?

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.

Chinese Taipei	TQM2A-05E,G,H,I	X	Question not administered or data not available.
Cyprus	TQM2A-05B	D	Modified from 95; 'Integrated Science' included in 99 but not 95.
Cyprus	TQM2A-05C	D	Modified from 95; 'Physical Science' included in 99 but not 95.
Cyprus	TQM2A-05D	D	Modified from 95; 'Geology' included in 99 but not 95.
Cyprus	TQM2A-05E	D	Includes 'Anthropology' and 'Phytology/Zoology'.
Cyprus	TQM2A-05I	X	Question not administered or data not available.
Czech Republic	TQM2A-05C	X	Question not administered or data not available.
Czech Republic	TQM2A-05D	D	Asked 'Geography'.
Czech Republic	TQM2A-05E	X	Question not administered or data not available.
England	TQM2A-05C	X	Physical Science question not administered or data not available.
England	TQM2A-05E	X	Life Science question not administered or data not available.
Finland	TQM2A-05C,E	X	Question not administered or data not available.
Finland	TQM2A-05D	D	Includes 'Geography'.
Hong Kong SAR	TQM2A-05C-I	X	Question not administered or data not available.
Hungary	TQM2A-05C	X	Physical Science question not administered or data not available.
Hungary	TQM2A-05E	X	Life Science question not administered or data not available.
Indonesia	TQM2A-05B-E,G	X	Question not administered or data not available.
Iran, Islamic Rep.	TQM2A-05C	X	Question not administered or data not available.
Iran, Islamic Rep.	TQM2A-05D-H	X	Question not administered or data not available.
Iran, Islamic Rep.	TQM2A-05I	D	Asked 'Other' in part C. Moved data from part C to part I if missing for part I.
Israel	TQM2A-05C	D	Modified from 95. Physical Science included in 99 but omitted in 95.
Israel	TQM2A-05D	D	Modified from 95. Asked "earth science" in 99 (part of general science curriculum); asked "geography" in 95.
Israel	TQM2A-05E	D	Modified from 95. Life Science included in 99 but omitted in 95.
Italy	TQM2A-05C-H	X	Question not administered or data not available.
Japan	TQM2A-05C-H	X	Question not administered or data not available.
Japan	TQM2A-05I	D	Added in 99.
Latvia (LSS)	TQM2A-05D	X	Question not administered or data not available.
Lithuania	TQM2A-05B	X	'General Science' not administered. "Informatika" combined with 'Other' in part I.
Lithuania	TQM2A-05C,D,E	X	Question not administered or data not available.
Lithuania	TQM2A-05I	D	Includes 'Computer Science' and 'Other'.
Lithuania	TQM2A-06E,G	X	Question not administered or data not available.
Macedonia, Republic	TQM2A-05B	X	Question not administered or data not available.
Macedonia, Republic	TQM2A-05C	X	Question not administered or data not available.
Macedonia, Republic	TQM2A-05D	D	Asked "Geography".
Macedonia, Republic	TQM2A-05E	X	Question not administered or data not available.
Malaysia	TQM2A-05C	X	Question not administered or data not available.
Malaysia	TQM2A-05D-H	X	Question not administered or data not available.
Moldova	TQM2A-05B	X	Question not administered or data not available.
Moldova	TQM2A-05C,E	X	Question not administered or data not available.
Moldova	TQM2A-05D	D	Asked 'geography'.

Morocco	TQM2A-05B	X	Question not administered or data not available.
Morocco	TQM2A-05C	D	Includes 'physics/chemistry'.
Morocco	TQM2A-05D	X	Question not administered or data not available.
Morocco	TQM2A-05E,G,H	X	Question not administered or data not available.
Morocco	TQM2A-05F	D	Includes 'Natural Science (biology/geology)'.
Netherlands	TQM2A-05A-I	D	Modified from 95. In 99 asked as periods/week; in 95 asked as hours/week. Computed 99 data by multiplying reported periods/week by minutes/period.
Netherlands	TQM2A-05B	X	Question not administered or data not available.
Netherlands	TQM2A-05C	D	Asked Physics/Chemistry..
Netherlands	TQM2A-05D	D	Asked Earth Science.
Netherlands	TQM2A-05E	X	Question not administered or data not available.
Netherlands	TQM2A-05F	D	Includes 'Biology' and 'Natural Sciences'.
Netherlands	TQM2A-05G	D	Asked Chemistry.
Netherlands	TQM2A-05H	D	Asked Physics.
Netherlands	TQM2A-05I	D	Includes 'Technology' and 'Other'.
New Zealand	TQM2A-05D	X	Earth Science question not administered or data not available.
New Zealand	TQM2A-05E	X	Life Science question not administered or data not available.
Philippines	TQM2A-05C	X	Physical science question not administered or data not available.
Philippines	TQM2A-05D-H	X	Question not administered or data not available.
Romania	TQM2A-05B	X	Question not administered or data not available.
Romania	TQM2A-05C	X	Question not administered or data not available.
Romania	TQM2A-05D	D	Includes 'Geography/Geology'.
Romania	TQM2A-05E	X	Question not administered or data not available.

XQM2A-05 administered or data nFvailable.



**TQM2A-7A-I****Question:**

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

Do not include time already accounted for in Question # 6.

- A: preparing or grading exams;
- B: reading or grading other student work;
- C: planning lessons by yourself;

:

I: other.

- 1: none;
- 2: less than 1 hour;
- 3: 1-2 hours;
- 4: 3-4 hours;
- 5: more than 4 hours.

**Variable Name(s):** BTBGACT1, BTBGACT2, BTBGACT3, BTBGACT4, BTBGACT5, BTBGACT6, BTBGACT7, BTBGACT8, BTBGACT9

**Link to 1995:** TQM2A-12A-H  
BTBGACT1, BTBGACT2, BTBGACT3, BTBGACT4, BTBGACT5, BTBGACT6, BTBGACT7, BTBGACT8

**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.

Country	Item ID	Code	Comment
Bulgaria	TQM2A-07I	X	Question not administered or data not available.
Moldova	TQM2A-07A-I	D	Part I ("other") omitted in Russian version; applies ONLY to Moldovan version.
Russian Federation	TQM2A-07A-I	D	Modified stem: 'APPROXIMATELY how many hours per week do you normally spend on each of the following activities?' [Did not include 'outside the formal school day' in instructions.]
South Africa	TQM2A-07I	X	Question not administered or data not available.
Tunisia	TQM2A-07A-I	D	Option 1 (none) not included.

**TQM2A-8****Question:**

Approximately how many hours per week do you normally spend on your teaching activities altogether (include time spent in and out of school)?  
(Format: Open-ended; numerical integer.)

**Variable Name(s):** BTBGALTO

**Link to 1995:** --

**Trend Status:** Question not administered in 1995.

Country	Item ID	Code	Comment
Netherlands	TQM2A-08	X	Question not administered or data not available.

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**TQM2A-9****Question:**

About how often do you have meetings with other teachers in your subject area to discuss and plan curriculum or teaching approaches?

- 1: never;
- 2: once or twice a year;
- 3: every other month;
- 4: once a month;
- 5: once a week;
- 6: two or three times a week;
- 7: almost every day.

**Variable Name(s):** BTBGMEET

**Link to 1995:** TQM2A-13  
BTBGMEET

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
Singapore	TQM2A-09	D	Modified response option: 3 = once a term

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**TQM2A-10A-D****Question:**

How much influence do you have on each of the following...

- A: subject matter to be taught;
- B: specific textbooks to be used;
- C: the amount of money to be spent on supplies;
- D: what supplies are purchased.

**Variable Name(s):** BTBGINF1, BTBGINF2, BTBGINF3, BTBGINF4

**Link to 1995:** TQM2A-14A-D  
BTBGINF1, BTBGINF2, BTBGINF3, BTBGINF4

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
Cyprus	TQM2A-10A,B	X	Question not administered or data not available.
England	TQM2A-10A-D	X	Question not administered or data not available.
Lithuania	TQM2A-10C,D	X	Question not administered or data not available.

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**TQM2A-11A-F****Question:**

To be good at mathematics in school, 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.

**Variable Name(s):** BTBMIMP1, BTBMIMP2, BTBMIMP3, BTBMIMP4, BTBMIMP5, BTBMIMP6

**Link to 1995:** TQM2A-15A-F  
BTBMIMP1, BTBMIMP2, BTBMIMP3, BTBMIMP4, BTBMIMP5, BTBMIMP6

**Trend Status:** Same question and response options administered in 1995.

Country	Item ID	Code	Comment
ALL	TQM2A-11A-F	D	Data considered internationally comparable for reporting.

**TQM2A-12A-I****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;
- :
- I: A liking for and understanding of students are essential.

**Variable Name(s):** BTBMAGR1, BTBMAGR2, BTBMAGR3, BTBGAGR4, BTBMAGR5, BTBMAGR6, BTBMAGR7, BTBMAGR8, BTBMAGR9

Country	Item ID	Code	Comment
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**TQM2A-13A-G****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>.

**Variable Name(s):** BTBMFAM1, BTBMFAM2, BTBGFAM3, BTBGFAM4, BTBGFAM5, BTBMFAM6, BTBMFAM7

**Link to 1995:** TQM2A-17A-G  
BTBMFAM1

**Trend Status:** Same question and response options administered in 1995.

Country	Item ID	Code	Comment
Australia	TQM2A-13A	D	State's version of the Mathematics Statements for Australian Schools.
Australia	TQM2A-13D,F,G	X	Question not administered or data not available.
Australia	TQM2A-13E	D	State's Year 12 examination requirements for mathematics subjects.
Belgium (FL)	TQM2A-13A	D	Modified from 95. Option 1 (No such document) included in 99 but omitted in 95.
Belgium (FL)	TQM2A-13B	X	Question not administered or data not available.
Belgium (FL)	TQM2A-13C	D	Modified from 95. Option 1 (no such document) included in 99 but omitted in 95.
Belgium (FL)	TQM2A-13D-G	X	Question not administered or data not available.
Bulgaria	TQM2A-13B,C,E,G	X	Question not administered or data not available.
Canada	TQM2A-13A	X	Asked 'Provincial Curriculum Guide for Mathematics'. Coded in Part B in 95; recode to match 95 data (move A to B).
Canada	TQM2A-13B	D	Includes 'Provincial Curr. Guide'.
Canada	TQM2A-13D	X	National Exam Specs not administered. Asked 'NCTM Standards' in English and 'CNPM Norms' in French. Coded in Part F in 95 (National Pedagogy Guide). Recode to match 95 data (move D to F).
Canada	TQM2A-13E,G	X	Question not administered or data not available.
Canada	TQM2A-13F	D	Modified from 95. Data input for both French and English in 99; not included for French in 95. Includes 'NCTM Standards' in English and 'CNPM Norms' in French.
Chile	TQM2A-13B	X	Question not administered or data not available.
Chile	TQM2A-13D	D	Asked exam specifications, 'national' or 'regional' not specified.
Chile	TQM2A-13E,F,G	X	Question not administered or data not available.
Chinese Taipei	TQM2A-13B-G	X	Question not administered or data not available.
Cyprus	TQM2A-13A	D	Asked 'National Curriculum Guide for Gymnasium'.
Cyprus	TQM2A-13B	X	Question not administered or data not available.
Cyprus	TQM2A-13C	X	Question not administered or data not available.
Cyprus	TQM2A-13D	X	Question not administered or data not available.



Cyprus

TQM2A-13E-G

X

United States	TQM2A-13E	D	Asked 'State Education Department Assessment Specifications'.
United States	TQM2A-13F	X	Question not administered or data not available.
United States	TQM2A-13G	X	Question not administered or data not available.

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**TQM2A-14A-L**

**Question:**

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

A: fractions, decimals, percentages?;

B: ratios and proportions?;

C: measurement-units, instruments, accuracy?;

:

L: simple probabilities-understanding and calculations?.

**Variable Name(s):** BTBMFP01, BTBMFP02, BTBMFP03, BTBMFP04, BTBMFP05, BTBMFP06, BTBMFP07, BTBMFP08, BTBMFP09, BTBMFP10, BTBMFP11, BTBMFP12

**Link to 1995:**

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Country	Item ID	Code	Comment
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Canada

TQM2A-15

D

National options recoded to fit international categories:

Lithuania	TQM2A-15	D	Nationally defined options: 1 = not included; 2 = secondary education; 3 = not included; 4 = combines 4 national levels for higher education (4-5 yrs): higher education with and without teacher training (mathematics) and higher education with and without teacher training (other subjects).
Malaysia	TQM2A-15	D	Nationally defined options: 1 = not included; 2 = secondary education; 3 = Bachelor degree; 4 = MA/PhD or degree with teacher certificate; 5 = diploma (short post-secondary education. program; ISCED 5b)
Moldova	TQM2A-15	D	Moldovan version national options: 1 = 'medii necomplete'; 2 = 'medii speciale' (long secondary vocational program); 3 = 'superioare' (university or other higher education, 5 yrs.); 4 = 'doctor in stiinte' (PhD).  Russian version national options: Question not administered or data not available.
Morocco	TQM2A-15	D	Nationally defined options: 1 = secondary school; 2 = some university (2-3 yrs); 3 = BA or equiv. (4 yrs); 4 = MA/PhD. Recoded national 1,2,3,4 to international 2,5,3,4.
Netherlands	TQM2A-15	D	National options recoded to fit international categories: 3 = combines two national options: higher professional education diploma level (HBO) and first university degree (MO-B); 4 = Doctoraalexamen (MSc, MA); 1,2 = comparable to international.
New Zealand	TQM2A-15	D	National options recoded to international categories: 3 = Bachelor's degree or equivalent or bachelor's degree with honors; 1,2,4 = same as international version.
Philippines	TQM2A-15	D	National options: 1 = Did not complete high school; 2 = High school only; 3 = B.Elem.Ed./B.Sec.Ed./B.S.E.; 4 = MAT/MA/M.Ed./Ed.D./PhD.
TQoraalexame13c Tj - TQM2A-15	TQM2A-15		

Slovenia	TQM2A-15	D	Nationally defined options: 3 = 2-3 years university study or more (teacher training college or other); 4 = 4 years university study (completing final thesis); 1,2 = comparable to international.
Tunisia	TQM2A-15	D	Nationally defined options: 4 = DEA/Doctorate (more than 4 yrs higher education); 1,2,3 = comparable to international.
Turkey	TQM2A-15	D	Nationally defined options: 1 = middle school; 2 = secondary school; 3 = university or equivalent; 4 = MA/PhD.

#### TQM2A-16A

#### Question:

Do you have a <teacher training certificate>?

A: yes;

B: no.

**Variable Name(s):** BTBGTRAC

**Link to 1995:** --

**Trend Status:** Question not administered in 1995.

Country	Item ID	Code	Comment
Australia	TQM2A-16A	D	Data obtained from the ministry; all teachers have teacher training certificate.
Belgium (FL)	TQM2A-16A	D	Certification obtained by completing Regentaat diploma.
Chile	TQM2A-16A	D	'Do you have a teacher title?' (any of the existing teacher training certificates; either in older NORMAL schools or university training).
England	TQM2A-16A	D	Includes all relevant qualifications which involve teacher training: Formal teacher training qualification (e.g. PGCE, Bed, Cert. Ed., Teacher's Certificate).
Hong Kong SAR	TQM2A-16A	D	Asked: 'Have you had formal teacher training?'
Italy	TQM2A-16A	X	No teacher training certificate is required; teachers are required to excel on a national public examination ('abilitazione').
Lithuania	TQM2A-16A	D	Data input based on teacher education level question (A15); YES = Higher Education plus Teacher Training (mathematics or other degree)
New Zealand	TQM2A-16A	D	'Do you have a diploma of teaching or equivalent?'
Philippines	TQM2A-16A	D	Asked: 'Do you have a Philippine Board Examination for Teachers (PBET)/Licensure Examination for Teachers (LET)?'
Singapore	TQM2A-16A	D	Data obtained from the ministry.
South Africa	TQM2A-16A	D	Asked 'Teacher Training Diploma'
United States	TQM2A-16A	X	Question not administered or data not available.

**TQM2A-16B****Question:**

How many years of <pre-service teacher training> have you had?  
(Format: Open-ended; numerical integer.)

**Variable Name(s):** BTBGYETR

**Link to 1995:** --

**Trend Status:** Question not administered in 1995.

Country	Item ID	Code	Comment
Belgium (FL)	TQM2A-16B	D	Pre-service training part of Regentaat diploma program.
Cyprus	TQM2A-16B	D	Data obtained from the ministry; no pre-service training.
Iran, Islamic Rep.	TQM2A-16B	D	Data obtained from the ministry. No pre-service teacher training is required; first year of teaching is the in-service training period.
Lithuania	TQM2A-16B	X	Question not administered or data not available.
Moldova	TQM2A-16B	X	Question not administered or data not available.
Philippines	TQM2A-16B	X	Question not administered or data not available.
Singapore	TQM2A-16B	D	Data obtained from the ministry.

**TQM2A-16C****Question:**

If you have had <pre-service teacher training>, did you begin this training in secondary school?  
A: yes;  
B: no.

**Variable Name(s):** BTBGPTRTR

**Link to 1995:** --

**Trend Status:** Question not administered in 1995.

Country	Item ID	Code	Comment
Australia	TQM2A-16C	D	Data obtained from the ministry; teachers cannot obtain teacher training in secondary school in Australia.
Belgium (FL)	TQM2A-16C	D	Data obtained from the ministry; teacher training not possible in secondary school in Belgium (FI).
Canada	TQM2A-16C	D	Data obtained from the ministry; teacher training not possible in secondary schools in Canada.
Cyprus	TQM2A-16C	X	Question not administered or data not available.
Czech Republic	TQM2A-16C	D	Data obtained from the ministry; teacher training not possible in secondary schools in the Czech Republic.
England	TQM2A-16C	D	Data obtained from the ministry; teachers cannot obtain teacher training in secondary school in England.
Italy	TQM2A-16C	X	Question not administered or data not available.

Jordan	TQM2A-16C	D	Data obtained from the ministry; teacher training is not possible in secondary schools in Jordan.
Lithuania	TQM2A-16C	X	Question not administered or data not available.
Netherlands	TQM2A-16C	D	Data obtained from the ministry; teacher training is not possible in secondary schools in the Netherlands.
New Zealand	TQM2A-16C	D	Modified: YES means having pre-service training in a country other than New Zealand. Teacher training not possible in secondary schools in New Zealand.
Philippines	TQM2A-16C	D	Data obtained from the ministry; pre-service teacher training begins at university/college level in the Philippines.
Russian Federation	TQM2A-16C	D	Data obtained from the ministry; teacher training not possible in secondary schools in Russia.
Singapore	TQM2A-16C	D	Data obtained from the ministry.

### TQM2A-17

#### Question:

While studying to obtain your <BA or equivalent or teacher training certificate>, what was your major or main area of study?

I do not have a <BA or equivalent or teacher training certificate>.  
(Filter question for A17 A-H.)

**Variable Name(s):** BTBGCMAS

**Link to 1995:** --

**Trend Status:** Question not administered in 1995.

Country	Item ID	Code	Comment
Czech Republic	TQM2A-17	D	BA level is not a precursor to 'MA' level in option 4 of TQM2A-15.
Indonesia	TQM2A-17	D	Data correspond to either 3-year diploma or Sarjana S1.
Italy	TQM2A-17	D	Data obtained from the ministry - all teachers have BA.
Lithuania	TQM2A-17	X	Question not administered or data not available.
Moldova	TQM2A-17	D	Filter not administered in Russian version; set to YES for Russian teachers if TQM2A-15 = 3,4.
Russian Federation	TQM2A-17	D	Data pertain to university or higher education diploma (equivalent to Master's degree).
Slovenia	TQM2A-17	D	Filter not administered. All teachers expected to have a BA or equivalent except in unusual cases where they do not complete their studies. Filter set to CHECKED if TQM2A-15 = 1,2 (did not finish secondary or finish secondary); otherwise, set to NOT CHECKED.

**TQM2A-17A-H****Question:**

While studying to obtain your <BA or equivalent or teacher training certificate>, what was your major or main area of study?

- A: Mathematics;
- B: Biology;
- C: Physics;
- D: Chemistry;
- E: Education;
- F: Mathematics education;
- G: Science education;
- H: other.

**Variable Name(s):** BTBGCMA1, BTBGCMA2, BTBGCMA3, BTBGCMA4, BTBGCMA5, BTBGCMA6, BTBGCMA7, BTBGCMA8

**Link to 1995:** --

**Trend Status:** Question not administered in 1995.

Country	Item ID	Code	Comment
Bulgaria	TQM2A-17F,G	X	Question not administered or data not available.
Cyprus	TQM2A-17C-G	X	Question not administered or data not available.
England	TQM2A-17A	D	Includes mathematics/statistics
Indonesia	TQM2A-17A-H	D	Data correspond to either 3-year diploma or Sarjana S1.
Italy	TQM2A-17F,G	X	Question not administered or data not available.
Lithuania	TQM2A-17A-H	X	Question not administered or data not available.
Moldova	TQM2A-17F	X	Question not administered or data not available.
Moldova	TQM2A-17G	X	Question not administered or data not available.
Netherlands	TQM2A-17H	D	Includes 'Earth Science' or 'Other'.
Russian Federation	TQM2A-17A-H	D	Data pertain to university or higher education diploma (equivalent to Master's degree).

**TQM2A-18****Question:**

If you have a master's degree, what was your major or main area of study?

I do not have a master's degree.

(Filter question for A18 A-H.)

**Variable Name(s):** BTBGMMAS

**Link to 1995:** --

**Trend Status:** Question not administered in 1995.

Country	Item ID	Code	Comment
Czech Republic	TQM2A-18	D	BA level is not a precursor to 'MA' level in option 4 of TQM2A-15.
Indonesia	TQM2A-18	X	Master's level question not administered; data pertaining to Sarjana S1 reported in A17.



Lithuania	TQM2A-18	D	Data input based on response to national question in TQM2A-15 indicating higher education degree.
Russian Federation	TQM2A-18	D	Data pertain to candidate of sciences (equivalent to PhD).
Singapore	TQM2A-18	X	Question not administered or data not available.
Slovenia	TQM2A-18	D	Data pertain to 'Magisterij'; 2-3 years post-secondary study following BA level 2.

**TQM2A-18A-H**

**Question:**

If you have a master's degree, what was your major or main area of study?

- A: Mathematics;
- B: Biology;
- C: Physics;
- D: Chemistry;
- E: Education;
- F: Mathematics education;
- G: Science education;
- H: other.

**Variable Name(s):** BTBGMMMA1, BTBGMMMA2, BTBGMMMA3, BTBGMMMA4, BTBGMMMA5, BTBGMMMA6, BTBGMMMA7, BTBGMMMA8

**Link to 1995:** --

**Trend Status:**

Country	Item ID	Code	Comment
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**TQM2A-19****Question:**

Was teaching your first choice as a career when beginning university?  
A: yes;  
B: no.

**Variable Name(s):** BTBGCARE

**Link to 1995:** TQM2A-18  
BTBGCARE

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
Macedonia, Republic	TQM2A-19	X	Question not administered or data not available.
Netherlands	TQM2A-19	X	Question not administered or data not available.
New Zealand	TQM2A-19	X	Question not administered or data not available.
Singapore	TQM2A-19	X	Question not administered or data not available.
United States	TQM2A-19	X	Question not administered or data not available.

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**TQM2A-20****Question:**

Would you change to another career if you had the opportunity?  
A: yes;  
B: no.

**Variable Name(s):** BTBGCHNG

**Link to 1995:** TQM2A-19  
BTBGCHNG

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
Macedonia, Republic	TQM2A-20	X	Question not administered or data not available.
Netherlands	TQM2A-20	X	Question not administered or data not available.
New Zealand	TQM2A-20	X	Question not administered or data not available.
United States	TQM2A-20	X	Question not administered or data not available.

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**TQM2A-23****Question:**

Approximately how many books are in your home?

- A: none or very few (0-10);
- B: enough to fill a shelf (11-25);
- C: enough to fill a bookcase (26-100);
- D: enough to fill two bookcases (101-200);
- E: enough to fill three or more bookcases (more than 200).

**Variable Name(s):** BTBGBOOK

**Link to 1995:** TQM2A-22  
BTBGBOOK

**Trend Status:** Same question and response options administered in 1995.

Country	Item ID	Code	Comment
Canada	TQM2A-23	X	Question not administered or data not available.
England	TQM2A-23	X	Question not administered or data not available.
Macedonia, Republic	TQM2A-23	X	Question not administered or data not available.
Netherlands	TQM2A-23	X	Question not administered or data not available.
New Zealand	TQM2A-23	X	Question not administered or data not available.
Russian Federation	TQM2A-23	D	Modified from 95. Option 5 combines two national options (200-1000 and >1000).
Singapore	TQM2A-23	X	Question not administered or data not available.
United States	TQM2A-23	X	Question not administered or data not available.

**TQM2B-1A,B****Question:**

How many students are in your mathematics class?

1: Boys (Format: Open-ended; numerical integer.); 2: girls (Format: Open-ended; numerical integer.).

**Variable Name(s):** BTBMBOY, BTBMGIRL

**Link to 1995:** TQM2B-1A,B  
BTBMBOY, BTBMGIRL

**Trend Status:** Same question and response options administered in 1995.

Country	Item ID	Code	Comment
ALL	TQM2B-01A,B	D	Data considered internationally comparable for reporting.

**TQM2B-2****Question:**

What subject matter do you emphasize most in your mathematics class?

- 1: mainly number;
- 2: geometry;
- 3: algebra;
- 4: combined algebra and geometry;
- 5: combined algebra, geometry, number, etc.;
- 6: other, please specify.

**Variable Name(s):** BTBMSMEC

**Link to 1995:** --

**Trend Status:** Question not administered in 1995.

Country	Item ID	Code	Comment
Australia	TQM2B-02	X	Question not administered or data not available.
Czech Republic	TQM2B-02	D	Nationally defined options: 1 = 'Primarily arithmetic (e.g., whole numbers,...)'; 5 = 'combined algebra, geometry, arithmetic, etc.'; 2,3,4,6 = comparable to international.
England	TQM2B-02	D	Data obtained from the ministry.
Finland	TQM2B-02	D	Nationally defined options: 5 = data pertain to Finnish teachers ONLY; 1,2,3,4,6 = comparable to international.
Lithuania	TQM2B-02	D	Nationally defined options: 5 (combined algebra, geometry, and number) not included; 1,2,3,4,6 = comparable to international.
Moldova	TQM2B-02	X	Question not administered or data not available.
New Zealand	TQM2B-02	D	National options recoded to fit international categories: 1 = Number; 2 = Geometry; 3 = Algebra; 4 = Not Included; 5 = course covers all strands of "Mathematics in the New Zealand Curriculum"; 6 = Measurement, statistics or other.
Russian Federation	TQM2B-02	D	Data obtained from the ministry.
Singapore	TQM2B-02	D	Nationally defined options: 1 = "mainly numbers/arithmetic (e.g. whole numbers, fractions, decimals, percentages, etc.)"; 2,3,4,5,6 = comparable to international.
Turkey	TQM2B-02	X	Question not administered or data not available.
United States	TQM2B-02	D	Nationally defined option: 1 = general mathematics (e.g., whole numbers, fractions, decimal, percentages, Etc.); 2,3,4,5,6 = comparable to international.

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**TQM2B-3****Question:**

How many minutes per week do you teach mathematics to your class?  
(Format: Open-ended; numerical integer.)

**Variable Name(s):** BTBMTIME

**Link to 1995:** TQM2B-3

BTBMTIME

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
Lithuania	TQM2B-03	X	Question not administered or data not available.
Singapore	TQM2B-03	D	Data obtained from ministry.

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**TQM2B-4A****Question:**

Do you use a textbook in teaching mathematics to your class?  
(This is a filter for B4/1 and B4/2.)  
A: yes;  
B: no.

**Variable Name(s):** BTBMTXBK

**Link to 1995:** TQM2B-4

BTBMTXBK, BTBMTXB0, BTBMTXB1, BTBMTXB2, BTBMTXB3, BTBMTXB4, BTBMTXB5, BTBMTXB6,  
BTBMTXB7, BTBMTXB8, BTBMTXB9, BTBMTSNM

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
Lithuania	TQM2B-04A	X	Question not administered or data not available.
Singapore	TQM2B-04A	D	Data obtained from the ministry.

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**TQM2B-5****Question:**

Do the students in your mathematics class have calculators available to use during mathematics lessons?  
A: yes;  
B: no.

**Variable Name(s):** BTBMCUDL

**Link to 1995:** TQM2B-8  
BTBMCALC

**Trend Status:** Question not administered in 1995.

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Country	Item ID	Code	Comment
Bulgaria	TQM2B-05	X	Question not administered or data not available.
Russian Federation	TQM2B-05	X	Question not administered or data not available.

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**TQM2B-6****Question:**

To what extent are the students in your mathematics class permitted to use calculators during mathematics lessons?  
A: unrestricted use;  
B: restricted use;  
C: calculators are not permitted.

**Variable Name(s):** BTBMWECP

**Link to 1995:** --

**Trend Status:** Question not administered in 1995.

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Country	Item ID	Code	Comment
ALL	TQM2B-6	D	Data considered internationally comparable for reporting.

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**TQM2B-7A-E****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.

**Variable Name(s):** BTBMCAL1, BTBMCAL2, BTBMCAL3, BTBMCAL4, BTBMCAL5

**Link to 1995:** TQM2B-9A-E  
BTBMCAL1, BTBMCAL2, BTBMCAL3, BTBMCAL4, BTBMCAL5

**Trend Status:** Same question and response options administered in 1995.

Country	Item ID	Code	Comment
ALL	TQM2B-7A-E	D	Data considered internationally comparable for reporting.

**TQM2B-8A-D****Question:**

Do the students in your mathematics class have computers available to use during mathematics lessons?

- A: in the classroom;
  - B: in other instructional rooms.
- If computers are available,
- C: do any of the computers have access to the internet?;
  - D: do you use the internet for instructional/educational purposes?.

**Variable Name(s):** BTBMCOM1, BTBMCOM2, BTBMINT1, BTBMINT2

**Link to 1995:** --

**Trend Status:** Question not administered in 1995.

Country	Item ID	Code	Comment
Lithuania	TQM2B-08A-D	X	Question not administered or data not available.
South Africa	TQM2B-08C,D	X	Question not administered or data not available.
Turkey	TQM2B-08C,D	X	Question not administered or data not available.



**TQM2B-9A-D****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.  
 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>.

**Variable Name(s):** BTBMSRC1, BTBMSRC2, BTBMSRC3, BTBMSRC4

**Link to 1995:** TQM2B-11A-D

BTBMSRC1, BTBMSRC2, BTBMSRC3, BTBMSRC4

**Trend Status:** Same question and response options administered in 1995.

Country	Item ID	Code	Comment
Australia	TQM2B-09A-D	D	Nationally defined options: 5 = State's version of the Science Curriculum Statement for Australian Schools; 6 = Not Included; 1,2,3,4 = comparable to international.
Belgium (FL)	TQM2B-09A-D	D	Modified from 95. National options recoded to fit international categories: 5 = combines two options related to the national curriculum guide (includes final objectives - standards for education); 6 = not included; 1,2,3,4 = comparable to international.
Bulgaria	TQM2B-09A-D	D	Option 4 (school curriculum guide) included in questions but indicated as not applicable in Bulgaria at a national level by the NRC .
Canada	TQM2B-09A-D	D	National options recoded to fit international categories: 5 = Provincial curriculum guide; 6 = Not included. [National option for 'District Curriculum Guide' not coded.]; 1,2,3,4 = comparable to international.
Chile	TQM2B-09A-D	D	Nationally defined options: 4 = 'School Curriculum project'; 1,2,3,5,6 = comparable to international.
Czech Republic	TQM2B-09A-D	D	Nationally defined options: 6 = not included 1,2,3,4,5 = comparable to international.
England	TQM2B-09A-D	D	Modified from 95. Nationally defined options: 1 = Other Resource Books (does not include subject association materials as in 95); 5 = National Curriculum Guide; 6 = Not Included; 2,3,4 = comparable to international.
Finland	TQM2B-09A-D	D	Nationally defined options: 5 = National Curriculum Guide; 6 (national/regional exam specifications) not included; 1,2,3,4,6 = comparable to international.

Hong Kong SAR	TQM2B-09A-D	D	Modified from 95. National options recoded to fit international categories: 4 = Not Included in 99; 5 = Syllabus recommended by the Curriculum Development Committee; 6 = HKCEE Syllabus; 1,2,3 = comparable to international.
Iran, Islamic Rep.	TQM2B-09A-D	D	National options recoded to fit international categories: 4 = not included 5 = National Curriculum Guide; 6 = National EA Guide;

United States      TQM2B-09A-D      D      Modified from 95. Nationally defined options:  
4 = School Curriculum Guide;  
5 = State or School District Curriculum Guide;  
6 = State or District Examination Specifications  
(NAEP or Statewide Assessment Guidelines' in 95);  
1,2,3 = comparable to international.

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**TQM2B-10A-G**      **Question:**

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**TQM2B-12A-H****Question:**

In a typical month of lessons for your mathematics class, what percentage of time is spent on each of the following activities?

- A: administrative tasks;
- B: homework review;
- C: lecture-style presentation by teacher;
- :
- H: other.

**Variable Name(s):** BTBMACT1, BTBMACT2, BTBMACT3, BTBMACT4, BTBMACT5, BTBMACT6, BTBMACT7, BTBMACT8

**Link to 1995:** --

**Trend Status:** Question not administered in 1995.

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Country	Item ID	Code	Comment
ALL	TQM2B-12A-H	D	Data considered internationally comparable for reporting.

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**TQM2B-13A1-F34****Question:**

The following list includes the main topics addressed by the TIMSS mathematics test. Check the response that describes when students in your mathematics class have been taught each topic.

**A: Fractions and number sense:**

- A1: whole numbers;
- A2: understanding/representing common fraction;
- A3: computations with common fractions;
- :
- A12: other mathematics.

**B: Measurement:**

- B13: units of measurement;
- B14: reading measurement instruments;
- :
- B18: volume of rectangular solids.

**C: Geometry:**

- C19: Cartesian coordinates;
- C20: Coordinates of points;
- :
- C24: Visualization of three-dimensional shapes.

**D: Proportionality:**

- D25: Scales applied to maps and models;
- D26: Concepts of ratio and proportion.

**E: Algebra:**

- E27: number patterns;
- :
- E31: solving simple inequalities.

**F: Data Representation, Analysis, Probability:**

- F32: representation and interpretation of data;
- :
- F34: Simple probabilities.

**Variable Name(s):** BTBMTB01-BTBMTB34, BTBMTT01-BTBMTT34, BTBMNT01-BTBMNT34

**Link to 1995:**

TQM2B-12

BTBMTA, BTBMTAA, BTBMTAB, BTBMTAC, BTBMTA1, BTBMTA1A, BTBMTA1B, BTBMTA1C, BTBMTA2, BTBMTA2A, BTBMTA2B, BTBMTA2C, BTBMTB, BTBMTBA, BTBMTBB, BTBMTBC, BTBMTB1, BTBMTB1A, BTBMTB1B, BTBMTB1C, BTBMTB2, BTBMTB2A, BTBMTB2B, BTBMTB2C, BTBMTB3, BTBMTB3A, BTBMTB3B,

**Trend Status:**

Question not administered in 1995.

Country	Item ID	Code	Comment
Lithuania	TQM2B-13A1-F34	X	Question not administered or data not available.
Moldova	TQM2B-13A1-F34	X	Question not administered or data not available.
Morocco	TQM2B-13A1-F34	X	Question not administered or data not available.
Russian Federation	TQM2B-13A1-F34	X	Question not administered or data not available.
Singapore	TQM2B-13A1-F34	D	'Do Not Know' response options translated as 'N.A.' (Not Applicable).
South Africa	TQM2B-13A1-F34	X	Question not administered or data not available.

**TQM2B-14A-P****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;
- :
- P: threat(s) to personal safety of students.

**Variable Name(s):** BTBMLM01, BTBMLM02, BTBMLM03, BTBMLM04, BTBMLM05, BTBMLM06, BTBMLM07, BTBMLM08, BTBMLM09, BTBMLM10, BTBMLM11, BTBMLM12, BTBMLM13, BTBMLM14, BTBMLM15, BTBMLM16

**Link to 1995:**

TQM2B-7A-P

BTBMLM01, BTBMLM02, BTBMLM03, BTBMLM04, BTBMLM05, BTBMLM06, BTBMLM07, BTBMLM08, BTBMLM09, BTBMLM10, BTBMLM11, BTBMLM12, BTBMLM13, BTBMLM14, BTBMLM15, BTBMLM16

**Trend Status:**

Same question and response options administered in 1995.

Country	Item ID	Code	Comment
ALL	TQM2B-14A-P	D	Data considered internationally comparable for reporting.

**TQM2B-15****Question:**

How often do you usually assign mathematics homework?

- 1: never;
- 2: less than once a week;
- 3: once or twice a week;
- 4: 3 or 4 times a week;
- 5: every day.

**Variable Name(s):** BTBMHMW2

**Link to 1995:**

TQM2B-18Hunga Tc 0.0068 Tc 0 Tw (TQM2B-14A-P) Tj -80.8812 0 TD 045 1.92 re LL

Country	Item ID	Code	Comment
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**TQM2B-18**

**Question:**

If students are assigned written mathematics homework, how often do you do the following?  
I do not assign written homework.  
(This is a filter for Q#18A-H.)

**Country**

**Item ID**

**Code**



**TQM2B-19A-G**

**Question:**

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

A: standardized tests produced outside the school;



# Section 3

Population 2  
Science Teacher Background Questionnaire



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**TQS2A-1****Question:**

How old are you?

A: under 25;

B: 25-29;

C: 30-39;

D: 40-49;

E: 50-59;

F: 60 or more.

**Variable Name(s):** BTBGAGE**Link to 1995:** TQS2A-1**Trend Status:**

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Country	Item ID	Code	Comment
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**TQS2A-3****Question:**

By the end of this year, how many years will you have been teaching altogether?  
(Format: Open-ended; numerical integer.)

**Variable Name(s):** BTBGTAUG

**Link to 1995:** TQS2A-7  
BTBGTAUG

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
ALL	TQS2A-3	D	Data considered internationally comparable for reporting.

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**TQS2A-4****Question:**

In one typical calendar week, for how many single <hours/periods> are you <scheduled/time tabled> in one school week altogether?  
(Format: Open-ended; numerical integer.)

**Variable Name(s):** BTBGTOTL

**Link to 1995:** TQS2A-11  
BTBGGRPK, BTBGGRK, BTBGGR1, BTBGGR2, BTBGGR3, BTBGGR4, BTBGGR5, BTBGGR6,  
BTBGGR7, BTBGGR8, BTBGGR9, BTBGGR10, BTBGGR11, BTBGGR12, BTBGGR13

**Trend Status:** Question not administered in 1995.

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Country	Item ID	Code	Comment
Australia	TQS2A-04	D	

**TQS2A-5A-I****Question:**

In one typical calendar week from Monday to Sunday, for how many periods are you scheduled to teach each of the following subjects?

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.

**Variable Name(s):** BTBMSUB1, BTBSSUB2, BTBSSUB3, BTBSSUB4, BTBSSUB5, BTBSSUB6, BTBSSUB7, BTBSSUB8, BTBGSUB9

**Link to 1995:** TQS2A-9A-I  
BTBMSUB1

**Trend Status:** Question not administered in 1995.

Country	Item ID	Code	Comment
Australia	TQS2A-05B	D	Contains combined data from national parts B (general science) and C (other science).
Australia	TQS2A-05C	X	Question TQS2A-05C refers to Other Sciences (not Physical Sciences). Recoded to Part B.
Australia	TQS2A-05D-H	X	Question not administered or data not available.
Belgium (FL)	TQS2A-05C	X	Physical Science question not administered.
Belgium (FL)	TQS2A-05E	X	Life Science question not administered.
	TQS2A-05B,C, Tw (TQS2A-05E) Tj -80. FL)		

Hungary	TQS2A-05C	X	Physical Science question not administered or data not available.
Hungary	TQS2A-05E	X	Life Science question not administered or data not available.
Indonesia	TQS2A-05B-E,G	X	Question not administered or data not available.
Iran, Islamic Rep.	TQS2A-05C	X	Question not administered or data not available.
Iran, Islamic Rep.	TQS2A-05D-H	X	Question not administered or data not available.
Iran, Islamic Rep.	TQS2A-05I	D	Asked 'Other' in part C. Moved data from part C to part I if missing for part I.
Israel	TQS2A-05C	D	Modified from 95. Physical Science included in 99 but omitted in 95.
Israel	TQS2A-05D	D	Modified from 95. Asked "earth science" in 99 (part of general science curriculum); asked "geography" in 95.
Israel	TQS2A-05E	D	Modified from 95. Life Science included in 99 but omitted in 95.
Italy	TQS2A-05C-H	X	Question not administered or data not available.
Japan	TQS2A-05C-H	X	Question not administered or data not available.
Japan	TQS2A-05I	D	Added in 99.
Jordan	TQS2A-05C-H	X	Question not administered or data not available.
Latvia (LSS)	TQS2A-05D	X	Question not administered or data not available.
Lithuania	TQS2A-05B	X	'General Science' not administered. "Informatika" combined with 'Other' in part I.
Lithuania	TQS2A-05C,D,E	X	Question not administered or data not available.
Lithuania	TQS2A-05I	D	Includes 'Computer Science' and 'Other'.
Macedonia, Republi	TQS2A-05B	X	Question not administered or data not available.
Macedonia, Republi	TQS2A-05C	X	Question not administered or data not available.
Macedonia, Republi	TQS2A-05D	D	Asked "Geography".
Macedonia, Republi	TQS2A-05E	X	Question not administered or data not available.
Malaysia	TQS2A-05C	X	Question not administered or data not available.
Malaysia	TQS2A-05D-H	X	Question not administered or data not available.
Moldova	TQS2A-05B	X	Question not administered or data not available.
Moldova	TQS2A-05C	X	Question not administered or data not available.
Moldova	TQS2A-05D	D	Asked 'geography'.
Moldova	TQS2A-05E	X	Question not administered or data not available.
Morocco	TQS2A-05B	X	Question not administered or data not available.
Morocco	TQS2A-05C	D	Includes 'Physics/Chemistry'.
Morocco	TQS2A-05D	X	Question not administered or data not available.
Morocco	TQS2A-05E,G,H	X	Question not administered or data not available.
Morocco	TQS2A-05F	D	Includes 'Natural Science' (biology/geology).
Netherlands	TQS2A-05A-I	D	Modified from 95. In 99 asked as periods/week; in 95 asked as hours/week. Computed 99 data by multiplying reported periods/week by minutes/period.
Netherlands	TQS2A-05B	X	Question not administered or data not available.
Netherlands	TQS2A-05C	D	Asked Physics/Chemistry..
Netherlands	TQS2A-05D	D	Asked Earth Science.
Netherlands	TQS2A-05E	X	Life Science question not administered or data not available.
Netherlands	TQS2A-05F	D	Includes 'Biology' and 'Natural Sciences'.
Netherlands	TQS2A-05G	D	Asked Chemistry.

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Netherlands	TQS2A-05H	D	Asked Physics.
Netherlands	TQS2A-05I	D	Includes 'Technology' and 'Other'.
New Zealand	TQS2A-05D	X	Earth Science question not administered or data not available.
New Zealand	TQS2A-05E	X	Life Science question not administered or data not available.
New Zealand	TQS2A-05F	D	Combines 'Human Biology' and 'Biology'
Philippines	TQS2A-05C	X	Question not administered or data not available.
Philippines	TQS2A-05E-H	X	Question not administered or data not available.
Romania	TQS2A-05B	X	Question not administered or data not available.
Romania	TQS2A-05C	X	Question not administered or data not available.
Romania	TQS2A-05D	D	Includes 'Geography/Geology'.
Romania	TQS2A-05E	X	Question not administered or data not available.
Russian Federation	TQS2A-05C	X	Physical Science question not administered or data not available.
Russian Federation	TQS2A-05D	D	Asked 'Geography'
Russian Federation	TQS2A-05E	X	Life Science question not administered or data not available.
Singapore	TQS2A-05B	D	changed label: science (any science)
Singapore	TQS2A-05C-H	X	Question not administered or data not available.
Slovak Republic	TQS2A-05B	D	Modified from 95. Asked 'Integrated Science' in 99; asked 'Natural History' in 95.

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**TQS2A-6A-G****Question:**

In one typical calendar week, for how many periods are you scheduled to perform each of the following tasks?

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

**Variable Name(s):** BTBGTSK1, BTBGTSK2, BTBGTSK3, BTBGTSK4, BTBGTSK5, BTBGTSK6, BTBGTSK7

**Link to 1995:** TQS2A-10A-F

BTBGTSK1, BTBGTSK2, BTBGTSK3, BTBGTSK4, BTBGTSK5, BTBGTSK6

**Trend Status:** Question not administered in 1995.

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Country	Item ID	Code	Comment
Canada	TQS2A-06A-G	D	Modified from 95. In 99 asked as periods/week; in 95 asked as hours/week. Computed 99 data by multiplying reported periods/week by minutes/period.
Hong Kong SAR	TQS2A-06A-G	D	Modified from 95; asked 'hours' in 99 and 'periods' in 95. Cases with inconsistent values between reported total (#4) and the sum of #5a-i and #6a-g were deleted per NRC.
Lithuania	TQS2A-06E,G	X	Question not administered or data not available.
Netherlands	TQS2A-06A-F	X	Individual task variable data not available.
Netherlands	TQS2A-06G	D	Includes total periods scheduled for all tasks.
Russian Federation	TQS2A-06A-G	X	Question not administered or data not available; all formally-scheduled time is teaching time.
Singapore	TQS2A-06D,E	X	Question not administered or data not available; centralized curriculum planning at Ministry of Education.

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**TQS2A-7A-I**

**Question:**

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

**TQS2A-9**

**Question:**

About how often do you have meetings with other teachers in your subject area to discuss and plan curriculum or teaching approaches?

1: never;

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**TQS2A-11A-F****Question:**

To be good at science in school, 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.

**Variable Name(s):** BTBSIMP1, BTBSIMP2, BTBSIMP3, BTBSIMP4, BTBSIMP5, BTBSIMP6

**Link to 1995:** --

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
ALL	TQS2A-11A-F	D	Data considered internationally comparable for reporting.

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**TQS2A-12A-I****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;
- :
- I: A liking for and understanding of students are essential for teaching science.

**Variable Name(s):** BTBSAGR1, BTBSAGR2, BTBSAGR3, BTBSAGR4, BTBSAGR5, BTBSAGR6, BTBSAGR7, BTBSAGR8, BTBSAGR9

**Link to 1995:** TQS2A-16A-I

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
Hungary	TQS2A-12A-I	D	Modified from 95. Reversed order of response options in 95; corrected in 99.

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Finland	TQS2A-13B,D,E,G	X	Question not administered or data not available.
Hong Kong SAR	TQS2A-13C	X	Question not administered or data not available.
Hong Kong SAR	TQS2A-13D	D	Modified from 95. Data based on highest response value (greatest familiarity) to three questions regarding the HKCEE examination syllabi for biology, physics or chemistry.
Indonesia	TQS2A-13C	X	Question not administered or data not available.
Iran, Islamic Rep.	TQS2A-13D	D	Asked 'National Exam specifications' in part B. Recoded to part D.
Lithuania	TQS2A-13C	D	Asked "National 99/2000 Curr. With School Options".
Lithuania	TQS2A-13D	X	Question not administered or data not available.
Lithuania	TQS2A-13G	X	Question not administered or data not available.
Malaysia	TQS2A-13C	D	Includes 'Scheme of Work.'
Morocco	TQS2A-13D	D	"national specifications" change of label not implemented in the national codebook
Morocco	TQS2A-13F	D	Question not administered or data not available.
Netherlands	TQS2A-13D	D	Contains combined data for questions about National curriculum aims for physics/chemistry, biology and earth science; separate questions administered depending on type of science teacher.
Netherlands	TQS2A-13E,F,G	X	Question not administered or data not available.
New Zealand	TQS2A-13A	D	Slightly modified from 95. Part A specifies 'Science in the New Zealand Curriculum'.
Philippines	TQS2A-13C	X	Question not administered or data not available.
Philippines	TQS2A-13D	D	Asked 'National Secondary Achievement Test (NSAT)'.
Romania	TQS2A-13G	X	Question not administered or data not available.
Singapore	TQS2A-13C	D	changed label: The School's Science scheme of work
Singapore	TQS2A-13D	D	changed label: The Assessment Guidelines - Lower Secondary
Slovak Republic	TQS2A-13C	D	Includes 'School Curriculum Guide'.
Slovak Republic	TQS2A-13D	D	Includes 'National Exam Specifications'.
Slovak Republic	TQS2A-13G	D	Modified from 95. Asked 'Regional Pedagogy Guide' in 99; not included in 95.
South Africa	TQS2A-13B	D	Asked 'Provincial Syllabus Guide'
South Africa	TQS2A-13E	D	Asked 'Provincial examination specifications'
South Africa	TQS2A-13F,G	X	Question not administered or data not available.
Tunisia	TQS2A-13C	X	Question not administered or data not available.
Tunisia	TQS2A-13D	X	Question not administered or data not available.
United States	TQS2A-13A	D	Same as 95. No national curriculum exists; included data for 'American Association for the Advancement of Science (AAAS) Benchmarks for Science Literacy'.
United States	TQS2A-13B	D	Includes 'State Education Department Curriculum Guide'; 'School District Curriculum Guide' not included in international database.
United States	TQS2A-13D	D	Includes data for 'National Assessment for Educational Progress (NAEP) Assessment Frameworks/Specifications'.
United States	TQS2A-13E	D	Includes data for 'State Education Department Assessment Specifications'.
United States	TQS2A-13F	X	Question not administered or data not available.
United States	TQS2A-13G	X	Question not administered or data not available.

**TQS2A-14A-J****Question:**

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

A: earth science - features and physical processes?;  
 B: earth science - solar system and universe?;  
 C: biology - structure and function of human systems?;  
 :  
 L: scientific methods and inquiry skills?.

**Variable Name(s):** BTBSFP01, BTBSFP02, BTBSFP03, BTBSFP04, BTBSFP05, BTBSFP06, BTBSFP07, BTBSFP08, BTBSFP09, BTBSFP10

**Link to 1995:** TQS2A-18A-I

**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.

Country	Item ID	Code	Comment
England	TQS2A-14A-J	X	Question not administered or data not available.
Lithuania	TQS2A-14A-J	X	Question not administered or data not available.
Russian Federation	TQS2A-14A-J	X	Question not administered or data not available.

**TQS2A-15****Question:**

What is the highest level of formal education you have completed?  
 International response options:  
 1 = <did not complete secondary school>;  
 2 = <secondary only>;  
 3 = <BA or equivalent>;  
 4 = <MA/PHD> ;  
 5: other post-secondary teacher education.

**Variable Name(s):** BTBGEDUC

**Link to 1995:** TQS2A-3  
 BTBGEDUC

**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.

Country	Item ID	Code	Comment
Belgium (FL)	TQS2A-15	D	National options recoded to fit international categories: 1,2 = not included; 3 = Regentaat (3-year program in higher education institution, not university); 4 = combines two national options: Licentiaat or Licentiaat + aggregatie (4-5 year university degree).
Canada	TQS2A-15	D	National options recoded to fit international categories: 1,2 = Not Included; 3 = BA or equivalent with or without teacher training; 4 = MA/PhD with or without teacher training; 5 = Secondary and 1 to 4 years teacher training with certificate to teach.



Chile	TQS2A-15	D	Nationally defined options: 1 = did not finish secondary school; 2 = finished secondary (grade 12); 3 = Licenciatura or equivalent (e.g., teacher title); 4 = Master or PhD.
Chinese Taipei	TQS2A-15	D	National options recoded to fit international categories: 1 = not included; 2 = finished senior high school; 3 = college or university; 4 = combines 2 national options for MA or equivalent or PhD.
Cyprus	TQS2A-15	D	Nationally defined options: 1 = did not complete upper secondary; 2 = completed upper secondary; 3 = graduated from university or other higher education institution; 4 = MA/PhD.
Czech Republic	TQS2A-15	D	Nationally defined options: 3 = Higher education or bachelor studies (3 years of university study or some special higher education after secondary); 4 = completed university (master's, 4-5 years); 1,2 = comparable to international.
England	TQS2A-15	D	National options recoded to international categories: 1 = Not Included; 2 = A Level; 3 = Bachelor's Degree; 4 = Master's or Doctorate Degree; 5 = Teacher's Certificate (old system).
Hong Kong SAR	TQS2A-15	D	National options recoded to fit international categories: 1 = secondary only; 2 = bachelor or equivalent; 3 = master's or equivalent; 4 = PhD.
Indonesia	TQS2A-15	D	National options recoded to fit international categories: 1 = did not finish secondary school; 2 = secondary (Tingkat SLTA); 3 = combines two national options: BA or 4-year university degree (Sarjana S1); 4 = MA/PhD (Sarjana S2/S3).
Iran, Islamic Rep.	TQS2A-15	D	National options recoded to fit international categories: 5 = Associate Degree (2-year); 1,2,3,4 = comparable to international.
Italy	TQS2A-15	D	National options recoded to fit international categories: 1 = Not Included; 2 = secondary with maturita; 3 = finished university (laurea; 4-year diploma); 4 = post-graduate university diploma (dottorato di ricerca).
Latvia (LSS)	TQS2A-15	D	Nationally defined options: 1 = Not finished secondary school; 2 = Secondary school; 3 = Higher education or bachelor (4-5 years of study); 4 = Master or PhD.
Lithuania	TQS2A-15	D	National options recoded to fit international categories: 1 = not included; 2 = secondary education; 3 = not included; 4 = combines 4 national levels for higher education (4-5 yrs): higher education with and without teacher training (specialist science field) and higher education with and without teacher training (other subject).

Malaysia	TQS2A-15	D	National options recoded to fit international categories: 1 = not included; 2 = secondary education; 3 = Bachelor degree; 4 = MA/PhD or degree with teacher certificate; 5 = diploma (short post-secondary education program; ISCED 5b).
Moldova	TQS2A-15	D	Moldovan version national options: 1 = 'medii necomplete'; 2 = 'medii speciale' (long secondary vocational program); 3 = 'superioare' (university or other higher education, 5 yrs.); 4 = 'doctor in stiinte' (PhD).  Russian version national options: Documentation of national options in Russian version not available.
Morocco	TQS2A-15	D	National options recoded to fit international categories: 1 = secondary school; 2 = some university (2-3 yrs); 3 = BA or equiv. (4 yrs); 4 = MA/PhD. Recode: national 1,2,3,4 to international 2,5,3,4.
Netherlands	TQS2A-15	D	National options recoded to fit international categories: 3 = combines two national options: higher professional education diploma level (HBO) and first university degree (MO-B); 4 = Doctoraalexamen (MSc, MA); 1,2 = comparable to international.
New Zealand	TQS2A-15	D	National options recoded to international categories: 3 = Bachelor's degree or equivalent or bachelor's degree with honors; 1,2,4 = comparable to international.
Philippines	TQS2A-15	D	Nationally defined options: 1= Did not complete high school; 2= High School only;

Turkey                      TQS2A-15                      D                      Nationally defined options:  
 1 = middle school;  
 2 = secondary school;  
 3 = university or equivalent;  
 4 = MA/PhD.

**TQS2A-16A**                      **Question:**  
 Do you have a <teacher training certificate>?  
 A: yes;  
 B: no.

**Variable Name(s):** BTBGTRAC

**Link to 1995:** --

**Trend Status:** Question not administered in 1995.

Country	Item ID	Code	Comment
Australia	TQS2A-16A	D	Data obtained from the ministry; all teachers have teacher training certificate.
Belgium (FL)	TQS2A-16A	D	Certification obtained by completing Regentaat diploma.
Chile	TQS2A-16A	D	'Do you have a teacher title?' (any of the existing teacher training certificates; either in older NORMAL schools or university training).
England	TQS2A-16A	D	Includes all relevant qualifications which involve teacher training: Formal teacher training qualification (e.g. PGCE, Bed, Cert. Ed., Teacher's Certificate).
Hong Kong SAR	TQS2A-16A	D	Asked: 'Have you had formal teacher training?'
Italy	TQS2A-16A	X	No teacher training certificate is required; teachers are required to excel on a national public examination ('abilitazione').
Lithuania	TQS2A-16A	D	Data input based on teacher education level question (TQM2A-A15); YES = Higher Education plus Teacher Training (science or other degree)
Netherlands	TQS2A-16A	D	Revised national data recoded to fit international categories.
New Zealand	TQS2A-16A	D	'Do you have a diploma of teaching or equivalent?'
Philippines	TQS2A-16A	D	Asked: 'Do you have a Philippine Board Examination for Teachers (PBET)/Licensure Examination for Teachers (LET)?'
Singapore	TQS2A-16A	D	Data obtained from the ministry.
South Africa	TQS2A-16A	D	Asked 'Teacher Training Diploma'
United States	TQS2A-16A	X	Question not administered or data not available.

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**TQS2A-16B****Question:**

How many years of <pre-service teacher training> have you had?  
(Format: Open-ended; numerical integer.)

**Variable Name(s):** BTBGYETR

**Link to 1995:** --

**Trend Status:** Question not administered in 1995.

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Country	Item ID	Code	Comment
Belgium (FL)	TQS2A-16B	D	Pre-service training part of Regentaat diploma program.
Cyprus	TQS2A-16B	D	Data obtained from the ministry; no pre-service training.
Italy	TQS2A-16B	D	Data obtained from the ministry. No pre-service teacher training is required; first year of teaching is the in-service training period.
Lithuania	TQS2A-16B	X	Question not administered or data not available.
Moldova	TQS2A-16B	X	Question not administered or data not available.
Philippines	TQS2A-16B	X	Question not administered or data not available.
Singapore	TQS2A-16B	D	Data obtained from the ministry.

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Lithuania	TQS2A-16C	X	Question not administered or data not available.
Netherlands	TQS2A-16C	D	Data obtained from the ministry; teacher training is not possible in secondary schools in the Netherlands.
New Zealand	TQS2A-16C	D	Modified: YES means having pre-service training in a country other than New Zealand. Teacher training not possible in secondary schools in New Zealand.
Philippines	TQS2A-16C	D	Data obtained from the ministry; pre-service teacher training begins at university/college level in the Philippines.
Russian Federation	TQS2A-16C	D	Data obtained from the ministry; teacher training not possible in secondary schools in Russia.
Singapore	TQS2A-16C	D	Data obtained from the ministry.

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**TQS2A-17A-H**

**Question:**

While studying to obtain your <BA or equivalent or teacher training certificate>, what was your major or main area of study?

- A: Mathematics;
- B: Biology;
- C: Physics;
- D: Chemistry;
- E: Education;
- F: Mathematics education;
- G: Science education;
- H: other.

**Variable Name(s):** BTBGCMA1, BTBGCMA2, BTBGCMA3, BTBGCMA4, BTBGCMA5, BTBGCMA6, BTBGCMA7, BTBGCMA8

**Link to 1995:**

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Country	Item ID	Code	Comment
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Lithuania

TQS2A-18

D

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**TQS2A-19****Question:**

Was teaching your first choice as a career when beginning university?  
A: yes;  
B: no.

**Variable Name(s):** BTBGCARE

**Link to 1995:** TQS2A-19  
BTBGCARE

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
Macedonia, Republi	TQS2A-19	X	Question not administered or data not available.
Netherlands	TQS2A-19	X	Question not administered or data not available.
New Zealand	TQS2A-19	X	Question not administered or data not available.
Singapore	TQS2A-19	X	Question not administered or data not available.
United States	TQS2A-19	X	Question not administered or data not available.

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**TQS2A-20****Question:**

Would you change to another career if you had the opportunity?  
A: yes;  
B: no.

**Variable Name(s):** BTBGCHNG

**Link to 1995:** TQS2A-20  
BTBGCHNG

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
Macedonia, Republi	TQS2A-20	X	Question not administered or data not available.
Netherlands	TQS2A-20	X	Question not administered or data not available.
New Zealand	TQS2A-20	X	Question not administered or data not available.
United States	TQS2A-20	X	Question not administered or data not available.

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<b>TQS2A-21</b>	<b>Question:</b> Do you think that society appreciates your work? A: yes; B: no.
<b>Variable Name(s):</b>	BTBGSOAP
<b>Link to 1995:</b>	TQS2A-21 BTBGSOAP
<b>Trend Status:</b>	Same question and response options administered in 1995.

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<b>Country</b>	<b>Item ID</b>	<b>Code</b>	<b>Comment</b>
Macedonia, Republi	TQS2A-21	X	Question not administered or data not available.
Netherlands	TQS2A-21	X	Question not administered or data not available.
New Zealand	TQS2A-21	X	Question not administered or data not available.
United States	TQS2A-21	X	Question not administered or data not available.

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<b>TQS2A-22</b>	<b>Question:</b> Do you think your students appreciate your work? A: yes; B: no.
<b>Variable Name(s):</b>	BTBGSTAP
<b>Link to 1995:</b>	TQS2A-22 BTBGSTAP
<b>Trend Status:</b>	Same question and response options administered in 1995.

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<b>Country</b>	<b>Item ID</b>	<b>Code</b>	<b>Comment</b>
Macedonia, Republi	TQS2A-22	X	Question not administered or data not available.
Netherlands	TQS2A-22	X	Question not administered or data not available.
New Zealand	TQS2A-22	X	Question not administered or data not available.
United States	TQS2A-22	X	Question not administered or data not available.

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**TQS2A-23****Question:**

Approximately how many books are in your home?

- 1: none or very few (0-10);
- 2: enough to fill a shelf (11-25);
- 3: enough to fill a bookcase (26-100);
- 4: enough to fill two bookcases (101-200);
- 5: enough to fill three or more bookcases (more than 200).

**Variable Name(s):** BTBGBOOK

**Link to 1995:** TQS2A-23  
BTBGBOOK

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
Canada	TQS2A-23	X	Question not administered or data not available.
England	TQS2A-23	X	Question not administered or data not available.
Macedonia, Republi	TQS2A-23	X	Question not administered or data not available.
Netherlands	TQS2A-23	X	Question not administered or data not available.
	TQS2A-23		

**TQS2B-2****Question:**

What subject matter do you emphasize most in your science class?

- 1: General/Integrated science;
- 2: Earth science;
- 3: Biology;
- 4: Chemistry;
- 5: Physics;
- 6: Physical science (chemistry/physics);
- 7: Other, please specify.

**Variable Name(s):** BTBSSMEC

**Link to 1995:** --

**Trend Status:** Question not administered in 1995.

Country	Item ID	Code	Comment
Belgium (FL)	TQS2B-02	D	National options recoded to fit international categories: 6 = (Physical Science) not included; 1,2,3,4,5,7 = comparable to international.
Bulgaria	TQS2B-02	D	Nationally defined options: 2 = 'Physical Geography'; 1,3,4,5,6,7 = comparable to international.
Cyprus	TQS2B-02	D	Nationally defined options: 2 = 'Geology'; 1,3,4,5,6,7 = comparable to international.
Czech Republic	TQS2B-02	D	Data obtained from teacher tracking information.
England	TQS2B-02	X	Question not administered or data not available.
Finland	TQS2B-02	D	Nationally defined options: 2 = 'Geography'; 1,3,4,5,6,7 = comparable to international.
Hungary	TQS2B-02	D	National options recoded to fit international categories: 1 = (General/integrated Science) not included; 6 = (Physical Science) not included; 2,3,4,5,7 = comparable to international.
Italy	TQS2B-02	D	Nationally defined options: 1 = (general/integrated science) not included; 2,3,4,5,6,7 = comparable to international.
Lithuania	TQS2B-02	D	National options recoded to fit international categories: 2 = (Earth Science) not included; 1,3,4,5,6,7 = comparable to international.
Macedonia, Republi	TQS2B-02	D	National options recoded to fit international categories: 1,6 = not included; 2 = 'geography'; 3,4,5,7 = comparable to international.
Moldova	TQS2B-02	D	Data obtained from tracking information. 1,6,7 = not included; 2,3,4,5 = comparable to international.
Morocco	TQS2B-02	D	National options recoded to fit international categories: 1 = (general/integrated science) not included; 2 = (Earth science) not included; 3,4,5,6,7 = comparable to international.

Netherlands	TQS2B-02	D	National options recoded to fit international categories: 1 (general/integrated science) not included; 6 = 'Physics/Chemistry'; 2,3,4,5 = comparable to international.
New Zealand	TQS2B-02	D	National options recoded to fit international categories: 1 = course covers all strands of "Science in the New Zealand Curriculum"; 2,3,4,5,6 = comparable to international version.
Romania	TQS2B-02	D	Nationally defined options: 2 = 'Geography'; 1,3,4,5,6,7 = comparable to international.
Russian Federation	TQS2B-02	D	Data obtained from tracking information. 1,6,7 = not included; 2,3,4,5 = comparable to international.
Slovenia	TQS2B-02	D	Nationally defined options: 1 = (general/integrated science) not included; 2 = 'Geography'; 7 = (physical science) not included; 3,4,5,6 = comparable to international.
South Africa	TQS2B-02	D	Nationally defined options: 1 = 'General Science'; 2 = 'Geography'; 3,4,5,6,7 = comparable to international.
Turkey	TQS2B-02	D	Nationally defined options: 2 = 'geography'; 6 = 'natural sciences (chemistry/physics)'; 1,3,4,5,7 = comparable to international.

### TQS2B-3

#### Question:

How many minutes per week do you teach science to your science class?  
(Format: Open-ended; numerical integer.)

**Variable Name(s):** BTBSTIME

**Link to 1995:** TQS2B-3  
BTBSTIME

**Trend Status:** Same question and response options administered in 1995.

Country	Item ID	Code	Comment
Indonesia	TQS2B-03	D	Data reported for biology or physics teachers pertain to the amount of time the separate subject is taught in the composite IPA science course. Total science time is the sum of the time reported by the two teachers for each student.
Lithuania	TQS2B-03	X	Question not administered or data not available.
Singapore	TQS2B-03	D	Data obtained from ministry.

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**TQS2B-4A****Question:**

Do you use a textbook in teaching science to your class?  
(This is a filter for Q#4B.)  
A: yes;  
B: no.

**Variable Name(s):** BTBSTXBK**Link to 1995:** TQS2B-4  
BTBSTXBK**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
Lithuania	TQS2B-04A	X	Question not administered or data not available.
Singapore	TQS2B-04A	D	Data obtained from the ministry.

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**TQS2B-4B****Question:**

If yes, approximately what percentage of your weekly science teaching time is based on your science textbook?  
A: 0-25%;  
B: 26-50%;  
C: 51-75%;  
D: 76-100%.

**Variable Name(s):** BTBSTXBR**Link to 1995:** TQS2B-5  
BTBSTXBS**Trend Status:** Question not administered in 1995.

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Country	Item ID	Code	Comment
ALL	TQS2B-04B	D	Data considered internationally comparable for reporting.

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**TQS2B-5****Question:**

Do the students in your science class have calculators available to use during science lessons?

A: yes;

B: no.

**Variable Name(s):** BTBSCUDL**Link to 1995:** TQS2B-8

BTBSADTB

**Trend Status:** Question not administered in 1995.

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<b>Country</b>	<b>Item ID</b>	<b>Code</b>	<b>Comment</b>
Russian Federation	TQS2B-05	X	Question not administered or data not available.



**TQS2B-9A-D****Question:**

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

- A: deciding which topics to teach (goals);  
 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.  
 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>.

**Variable Name(s):** BTBSSRC1, BTBSSRC2, BTBSSRC3, BTBSSRC4

**Link to 1995:** TQS2B-11A-D  
 BTBSSRC1, BTBSSRC2, BTBSSRC3, BTBSSRC4

**Trend Status:** Same question and response options administered in 1995.

Country	Item ID	Code	Comment
Australia	TQS2B-09A-D	D	Nationally defined options: 5 = State's version of the Science Curriculum Statement for Australian Schools; 6 = Not Included; 1,2,3,4,7 = comparable to international.
Belgium (FL)	TQS2B-09A-D	D	Modified from 95. National options recoded to fit international categories: 5 = combines two questions related to the national curriculum guide (final objectives - standards for education); 6 = not included; 1,2,3,4,7 = comparable to international.
Bulgaria	TQS2B-09A-D	D	Option 4 (school curr. Guide) included in question but indicated as not applicable at a national level by the NRC.
Canada	TQS2B-09A-D	D	National options recoded to fit international categories: 5 = Provincial curriculum guide; 6 = Not included. [National option for 'District Curriculum Guide' not coded.]; 1,2,3,4 = comparable to international.
Chile	TQS2B-09A-D	D	Nationally defined options: 4 = 'School Curriculum project'; 1,2,3,5,6 = comparable to international.
Czech Republic	TQS2B-09A-D	D	Nationally defined options: 6 = not included; 1,2,3,4,5, = comparable to international.
England	TQS2B-09A-D	D	Nationally defined options: 1 = Other Resource Books (does not include subject association materials as in 95); 5 = National Curriculum Guide; 6 = Not Included; 2,3,4, = comparable to international
Finland	TQS2B-09A-D	D	Nationally defined options: 5 = National Curriculum Guide; 6 (national/regional exam specifications) not included; 1,2,3,4, = comparable to international.







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**TQS2B-12A-J****Question:**

In a typical month of lessons for your science class, what percentage of time is spent on each of the following activities?

- A: administrative tasks;
- B: homework review;
- C: lecture-style presentation by teacher;
- :
- J: other.

**Variable Name(s):** BTBSAC01, BTBSAC02, BTBSAC03, BTBSAC04, BTBSAC05, BTBSAC06, BTBSAC07, BTBSAC08, BTBSAC09, BTBSAC10

**Link to 1995:** --

**Trend Status:** Question not administered in 1995.

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Country	Item ID	Code	Comment
Lithuania	TQS2B-12H,I	X	Question not administered or data not available.

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**TQS2B-13A1-F31**

**Question:**

The following list includes the main topics addressed by the TIMSS science test. Check the response that describes when students in your science class have been taught each topic.

A: Earth Science:

A1: Earth's physical features;

:

A4: Earth in the solar system.

B: Biology:

B5: Human body - structure and function;

B6: Human bodily processes;

:

**TQS2B-14A-P****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;
- :
- P: threat(s) to personal safety of students.

**Variable Name(s):** BTBSLM01, BTBSLM02, BTBSLM03, BTBSLM04, BTBSLM05, BTBSLM06, BTBSLM07, BTBSLM08, BTBSLM09, BTBSLM10, BTBSLM11, BTBSLM12, BTBSLM13, BTBSLM14, BTBSLM15, BTBSLM16

**Link to 1995:** TQS2B-7A-P  
BTBSASK1, BTBSASK2, BTBSASK3, BTBSASK4, BTBSASK5, BTBSASK6

**Trend Status:** Same question and response options administered in 1995.

Country	Item ID	Code	Comment
ALL	TQS2B-14A-P	D	Data considered internationally comparable for reporting.

**TQS2B-15****Question:**

How often do you usually assign science homework?

- 1: never;
- 2: less than once a week;
- 3: once or twice a week;
- 4: 3 or 4 times a week;
- 5: every day.

(This is a filter for Q#B16/17/18.)

**Variable Name(s):** BTBSHMW2

**Link to 1995:** TQS2B-18  
BTBSPRP1, BTBSPRP2, BTBSPRP3, BTBSPRP4, BTBSPRP5, BTBSPRP6, BTBSPRP7, BTBSPRP8, BTBSPRP9

**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.

Country	Item ID	Code	Comment
Hungary	TQS2B-15	D	Modified from 95. Response options reworded in 99. Option 5 in 95 (every lesson) changed to 'every day' in 99. In 95 Option 5 was combined into 4 (3-4 times/week).
Lithuania	TQS2B-15	D	Modified response options from 95 and international version: 4 = 'Almost every lesson' instead of '3-4 times/week'; 5 = not included.

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**TQS2B-16****Question:**

If you assign science homework, how many minutes of science homework do you usually assign your students?

- A: less than 15 minutes;
- B: 15-30 minutes;
- C: 31-60 minutes;
- D: 61-90 minutes;
- E: more than 90 minutes.

**Variable Name(s):** BTBSHWMA

**Link to 1995:** TQS2B-19

BTBSHWT2

**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.

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Country	Item ID	Code	Comment
ALL	TQS2B-16	D	Data considered internationally comparable for reporting.

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**TQS2B-17A-J****Question:**

If you assign science homework, how often do you assign each of the following kinds of tasks?

- A: worksheets or workbook;
- B: problem/question sets in textbook;
- C: reading in a textbook or supplementary materials;
- :
- J: keeping a journal.

**Variable Name(s):** BTBSWKBR, BTBSPROR, BTBSREAR, BTBSWRIR, BTBSDATR, BTBSIEXR, BTBSGEXR, BTBSFINR, BTBSORAR, BTBSJORR

**Link to 1995:** TQS2B-20A-J

BTBSWKBK, BTBSPROB, BTBSREAD, BTBSWRIT, BTBSDATA, BTBSIEXP, BTBSGEXP, BTBSFIND, BTBSORAL, BTBSJOUR

**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.

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Country	Item ID	Code	Comment
Indonesia	TQS2B-17A-J	X	Question not administered or data not available.

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**TQS2B-18****Question:**

If students are assigned written science homework, how often do you do the following?  
I do not assign written homework.  
(This is a filter for Q#18A-H.)

**Variable Name(s):** BTBSWHNA

**Link to 1995:** --

**Trend Status:** Question not administered in 1995.

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Country	Item ID	Code	Comment
Macedonia, Republi	TQS2B-18	D	For Albanian version, filter not administered.

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**TQS2B-18A-H****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 assignments;  
C: collect, correct and return assignments;  
:  
H: use it to contribute towards students' grades or marks.

**Variable Name(s):** BTBSWHR1, BTBSWHR2, BTBSWHR3, BTBSWHR4, BTBSWHR5, BTBSWHR6, BTBSWHR7, BTBSWHR8

**Link to 1995:** TQS2B-21A-H  
BTBSWHW1, BTBSWHW2, BTBSWHW3, BTBSWHW4, BTBSWHW5, BTBSWHW6, BTBSWHW7, BTBSWHW8

**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.

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Country	Item ID	Code	Comment
ALL	TQS2B-18A-H	D	





# Section 4

Population 2  
School Background Questionnaire



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**SCQ2-01****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.

**Variable Name(s):** BCBGCOMM

**Link to 1995:** SCQ2-1  
BCBGCOMM

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
Australia	SCQ2-01	D	National response of 'Other' (option 5) recoded to missing.
Belgium (FL)	SCQ2-01	D	Option 1 not included.
Netherlands	SCQ2-01	D	Option 1 not included.
Russian Federation	SCQ2-01	D	Nationally defined options: 3 = not included in 99 (included in 95); 4 = combines 2 national options for 'close to a town/city' and 'center of the region'; 1,2 = same as international.
Singapore	SCQ2-01	D	Data obtained from the ministry.

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**SCQ2-02A-H****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: <cl

Cyprus	SCQ2-02G	X	Question not administered or data not available.
England	SCQ2-02A-C	X	Question not administered or data not available.
England	SCQ2-02E-H	X	Question not administered or data not available.
Hungary	SCQ2-02C,F,G	X	Question not administered or data not available.
Indonesia	SCQ2-02C	X	Department head not included (not applicable in most schools); data for 'subject area coordinators' are included as 'core teachers' in the classroom teachers variable (part D).
Indonesia	SCQ2-02D	D	Contains the sum of 'core teachers' and 'regular subject teachers'; data for 'core teachers' do not differentiate between teaching FTE and department head FTE.
Indonesia	SCQ2-02E	X	Question not administered or data not available.
Indonesia	SCQ2-02G	X	Question not administered or data not available.
Indonesia	SCQ2-02H	D	Combined data for library and administrative staff.
Iran, Islamic Rep.	SCQ2-02C,E,G	D	Modified from 95. Dept. Heads, teacher aides and learning specialists omitted in 95 but asked in 99.
Italy	SCQ2-02C	X	Question not administered or data not available.
Malaysia	SCQ2-02B	D	Includes 'senior assistant'.
Malaysia	SCQ2-02C	D	Includes 'head of subject discipline'.
Malaysia	SCQ2-02G	D	Includes 'specialist teacher'.
Morocco	SCQ2-02C,G	X	Question not administered or data not available.
Morocco	SCQ2-02E	D	Asked 'assistant teachers' in part G; moved data to part E.
Netherlands	SCQ2-02C	D	Asked 'section leaders'.
Singapore	SCQ2-02A,B	D	Data obtained from the ministry.
Singapore	SCQ2-02D	D	Classroom teachers (including relief teachers). Slightly modified from 95 D     D     D

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**SCQ2-03A,B****Question:**

A: How many individual full-time <classroom teachers> are there in your school?  
(Format: Open-ended; numerical integer.)

B: How many individual part-time <classroom teachers> are there in your school?  
(Format: Open-ended; numerical integer.)

**Variable Name(s):** BCBGFTTE, BCBGPTTE

**Link to 1995:** SCQ2-4A,B  
BCBGFTTE, BCBGPTTE

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
ALL	SCQ2-03A,B	D	Data considered internationally comparable for reporting.

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**SCQ2-04****Question:**





Japan

SCQ2-08A-N

D

Nationally defined options:

2 = revised to 'Educational region or district or school governing board'.

Only private schools have governing board; public schools are managed by educational region or district.



Canada	SCQ2-09B	D	Asked 'Provincial Subject Association'.
Canada	SCQ2-09C	D	Asked 'Provincial Ministry of Education'.
Chile	SCQ2-09A	D	Includes 'Ministry of education division of general education'.
Chile	SCQ2-09C	D	Includes 'District Education Departments'.
Chinese Taipei	SCQ2-09B	X	Question not administered or data not available.
Chinese Taipei	SCQ2-09C	X	Question not administered or data not available.
Chinese Taipei	SCQ2-09D	X	Question not administered or data not available.
	SCQ2-09A		

Singapore	SCQ2-09B,C	X	Question not administered or data not available.
Singapore	SCQ2-09D	D	School advisory committee.
Slovenia	SCQ2-09C	D	'Regional offices of the board of education'. (same as 95)
South Africa	SCQ2-09A	D	Asked 'National Education Department'
South Africa	SCQ2-09C	D	Asked 'Provincial Education Department'
Tunisia	SCQ2-09A	D	Includes 'Ministry of Education'.
Tunisia	SCQ2-09D,K	X	Question not administered or data not available.
Turkey	SCQ2-09B-O	X	Not applicable; data deleted.
United States	SCQ2-09A	D	National Curriculum Council does not exist; data included for 'Voluntary National Standards'.
United States	SCQ2-09B	D	Modified from 95. In 99 included: 'National Subject Area Associations'; in 95 combined data from 2 questions about NCTM Standards and AAAS Benchmarks.
United States	SCQ2-09C	D	Modified from 95. 'State or district officials' replaced 'State or district education board'

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**SCQ2, 09A, B5 an'** Question:

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**SCQ2-11A,B**

**Question:**

Has your school developed instructional activities or learning materials to address the curriculum taught in your school?

A: for mathematics;

B: for science.

**Variable Name(s):** BCBMDVLP, BCBSDVLP

**Link to 1995:** --

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<b>Country</b>	<b>Item ID</b>	<b>Code</b>	<b>Comment</b>
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Bulgaria	SCQ2-12S	X	Question not administered or data not available.
Bulgaria	SCQ2-12V	D	Includes 'teachers qualified to teach physical geography'.
Canada	SCQ2-12T-W	X	Question not administered or data not available.
Chile	SCQ2-12S	D	Asked: 'Natural Science'.
Chile	SCQ2-12T-W	X	Question not administered or data not available.
Chinese Taipei	SCQ2-12S	D	Includes data for integrated 'Physics/Chemistry' course taught in grade 8.
Chinese Taipei	SCQ2-12W	D	Asked 'Physical Science' in part S and 'Physics in part W. NRC confirmed to keep data only for 'physics'.
Cyprus	SCQ2-12V	D	Includes 'Geology'.
Czech Republic	SCQ2-12S	X	General/integrated science question not administered or data not applicable.
England	SCQ2-12S	D	Includes "teachers qualified to teach science".
England	SCQ2-12T-W	X	Question not administered or data not available.
Finland	SCQ2-12V	D	Includes 'Earth Science'; different from teacher and student questions ('Geography'). Confirm situation with NRC.
Hungary	SCQ2-12S	X	Question not administered or data not available.
Iran, Islamic Rep.	SCQ2-12T	X	Biology question not administered or data not applicable.
Iran, Islamic Rep.	SCQ2-12U	X	Chemistry question not administered or data not applicable.
Iran, Islamic Rep.	SCQ2-12V	X	Earth science question not administered or data not applicable.
Iran, Islamic Rep.	SCQ2-12W	X	Physics question not administered or data not applicable.
Italy	SCQ2-12T-W	X	Question not administered or data not available.
Japan	SCQ2-12T-W	X	Question not administered or data not available.
Latvia (LSS)	SCQ2-12V	X	Earth science question not administered or data not applicable.
Lithuania	SCQ2-12S,V	X	Question not administered or data not available.
Macedonia, Republic	SCQ2-12S	X	General/Integrated science question not administered or data not applicable.
Malaysia	SCQ2-12T-W	X	Question not administered or data not available.
Moldova	SCQ2-12S	X	General/Integrated question not administered or data not applicable.
Moldova	SCQ2-12V	D	Includes 'geography'.
Morocco	SCQ2-12S	X	General/Integrated science question not administered or data not available.
Morocco	SCQ2-12T	D	Includes 'natural science (biology/geology)'.
Morocco	SCQ2-12U	X	Chemistry question not administered or data not applicable.
Morocco	SCQ2-12V	X	Earth science question not administered or data not applicable.
Morocco	SCQ2-12W	D	Includes 'Physics/Chemistry'.
Netherlands	SCQ2-12S	X	General/Integrated Science not administered.
	SCQ2-12S	D	

Netherlaa	X	D	Includes 'Physicgrated science question not administ
Moldova	SCQ2-12S	X	



SCQ2-14A-D

**Question:**

Concerning upper grade students...

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**SCQ2-15A-C****Question:**

A: What is the total number of computers in your school / used by <U-GRADE> students? (Format: Open-ended; numerical integer.)

B: In addition, how many other computers can be used by <U-GRADE> teachers? (Format: Open-ended; numerical integer.)

C: Total number of computers used by either students or teachers (Format: Open-ended; numerical integer.)

**Variable Name(s):** BCBGCMP1, BCBGCMP2, BCBGCMP3

**Link to 1995:** SCQ2-15A-E  
BCBGCOM1, BCBGCOM2, BCBGCOM3, BCBGCOM4, BCBGCOM5

**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.

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Country	Item ID	Code	Comment
ALL	SCQ2-15A-C	D	All cases which have the same number of computers for 15A/B/C the number in 15B have been recoded to zero. All other cases where the sum of 15A/B exceeded the number of computers in 15C, the value in 15C have been set to the sum of 15A/B.
Lithuania	SCQ2-15C	D	Total computer question not administered; computed as sum of parts A and B.

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**SCQ2-16****Question:**

Does your school have access to the Internet for Instructional/Educational purposes?

1: yes;

2: no.

(This is a filter for Q# 16A/B and 16C/D.)

**Variable Name(s):** BCBGIACC

**Link to 1995:** --

**Trend Status:** Question not administered in 1995.

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Country	Item ID	Code	Comment
Iran, Islamic Rep.	SCQ2-16	D	Data obtained from the ministry.

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**SCQ2-16A,B****Question:**

Does your school have access to the Internet for Instructional/Educational purposes?

If no,

A: Is your school planning to get Internet access?;

B: If yes to A), when do you expect the school to get Internet access?.

(This is a filter for Q#16C-I)

**Variable Name(s):** BCBGACPL, BCBGACYE

**Link to 1995:** --

**Trend Status:** Question not administered in 1995.

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Country	Item ID	Code	Comment
ALL	SCQ2-16A,B	D	For all cases where the school has access to the internet but Yes-list and No-list answers were given, the values of the No-list have been recoded to 'Not Applicable'.  All cases where the number of the year fell below 1999 have been recoded to Missing.

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**SCQ2-16C,D****Question:**

Does your school have access to the Internet for Instructional/Educational purposes?

If yes,

C: What percentage of the computers listed in Question 15 have access to e-mail?;

D: What percentage have access to the World Wide Web?.

**Variable Name(s):** BCBGNAC2, BCBGNAC3

**Link to 1995:** --

**Trend Status:** Question not administered in 1995.

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Country	Item ID	Code	Comment
ALL	SCQ2-16C,D	D	For all cases where the school has no access to the internet but Yes-list and No-list answers were given the values of the Yes-list have been recoded to 'Not Applicable'.
Iran, Islamic Rep.	SCQ2-16C,D	D	Question not administered or data not available.

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**SCQ2-16E-I****Question:**

Has your school <or school system> made any of the following materials available on the World Wide Web?

- E: information about the school;
- F: mathematics curriculum guidelines;
- G: science curriculum guidelines;
- H: mathematics instructional activities;
- I: science instructional activities.

**Variable Name(s):** BCBGWBI1, BCBGWBI2, BCBGWBI3, BCBGWBI4, BCBGWBI5

**Link to 1995:** --

**Trend Status:** Question not administered in 1995.

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Country	Item ID	Code	Comment
Iran, Islamic Rep.	SCQ2-16E-I	X	Question not administered or data not available.

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**SCQ2-17A1-R1****Question:**

About how often does school administration or staff have to deal with the following behaviors among <U-GRADE> students?

- A: arriving late at school;
- B: absenteeism;
- C: skipping class;

:  
Iran, Islamic Rep. X Iran, Islamic Rep. X Iran, Islamic Rep.

- R: inappropriate sexual behavior.

**Variable Name(s):** BCBGUF01-BCBGUF18

**Link to 1995:** SCQ2-18A1-R1  
57or item p2235:

**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.

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Country	Item ID	Code	Comment
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Tunisia	SCQ2-17Q1	X	Question not administered or data not available.
Tunisia	SCQ2-17R1	X	Question not administered or data not available.

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**SCQ2-17A2-R2** Question:

To what extent do these behaviors present a problem in your school ?

A: arriving late at school;

B: absenteeism;

C: skipping class;

:

R: inappropriate sexual behavior.

**Variable Name(s):** BCBGUS01-BCBGUS18

**Link to 1995:** SCQ2-18A2-R2  
 BCBGUP01, BCBGUP02, BCBGUP03, BCBGUP04, BCBGUP05, BCBGUP06, BCBGUP07, BCBGUP08,  
 BCBGUP09, BCBGUP10, BCBGUP11, BCBGUP12, BCBGUP13, BCBGUP14, BCBGUP15, BCBGUP16,  
 BCBGUP17, BCBGUP18

**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.

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Country	Item ID	Code	Comment
Australia	SCQ2-17Q2-R2	X	Question not administered or data not available.
England	SCQ2-17A2-R2	X	Question not administered or data not available.
Italy	SCQ2-17D2	X	Question not administered or data not available.
Italy	SCQ2-17G2	X	Question not administered or data not available.
Netherlands	SCQ2-17N2	X	Question not administered or data not available.
Singapore	SCQ2-17O2	X	Question not administered or data not available.
Singapore	SCQ2-17Q2	X	Question not administered or data not available.
Singapore	SCQ2-17R2	X	Question not administered or data not available.
Tunisia	SCQ2-17O2	X	Question not administered or data not available.
Tunisia	SCQ2-17P2	X	Question not administered or data not available.
Tunisia	SCQ2-17Q2	X	Question not administered or data not available.
Tunisia	SCQ2-17R2	X	Question not administered or data not available.

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**SCQ2-18A-E****Question:**

For the <U-GRADE> students in your school:

A: How many instructional days are in the school year? (Format: Open-ended; numerical integer.)

B: How many full instructional days are there in the school week? (Format: Open-ended; numerical integer.)

C: How many half instructional days are there in the school week? (Format: Open-ended; numerical integer.)

D: How many hours in total are there in the school week? (Format: Open-ended; numerical integer.)

E: How many hours of instruction are there in the school week? (Format: Open-ended; numerical integer.)

**Variable Name(s):** BCBGUDYY, BCBGUFLW, BCBGUHFW, BCBGUTHW, BCBGUIHW

**Link to 1995:** SCQ2-19A2-E2  
BCBGUDYY, BCBGUFLW, BCBGUHFW, BCBGUTHW, BCBGUIHW

**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.

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Country	Item ID	Code	Comment
Belgium (FL)	SCQ2-18A-E	D	Data obtained from the ministry.
Italy	SCQ2-18A	D	Data obtained from the ministry.
Italy	SCQ2-18C	D	

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**SCQ2-19****Question:**

Is the school week divided into instructional hours/periods for your <U-GRADE> students?

1: yes;

2: no.

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

**Variable Name(s):** BCBGDIVI

**Link to 1995:** SCQ2-20  
BCBGDIVI

**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.

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Country	Item ID	Code	Comment
Belgium (FL)	SCQ2-19A,B	D	Data obtained from the ministry.
Lithuania	SCQ2-19	D	Data obtained from the ministry.
Netherlands	SCQ2-19	D	Data obtained from the ministry.
Singapore	SCQ2-19	D	Data obtained from the ministry.
Slovenia	SCQ2-19	D	Data obtained from the ministry.

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**SCQ2-19A,B****Question:**

If SCQ2-19 is Yes,

A: How many instructional periods are there in a school week? (Format: Open-ended; numerical integer.)

B: How many minutes is a typical instructional period? (Format: Open-ended; numerical integer.)

**Variable Name(s):** BCBGUPDW, BCBGUTMP

**Link to 1995:**

**Trend Status:** Same basic question administered in 1995; however, response options or item parts have been modified.Format: r9t:aml1.0012

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Country	Item ID	Code	Comment
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**SCQ2-20A-E**

**Question:**

Schools sometimes organize instruction differently for students with different abilities and interests in mathematics. Which of the following does your school do for students in the <U-GRADE>?

- A: All classes study similar content, but at different levels;
- B: Students are grouped by ability;
- C: Enrichment mathematics is offered;
- D: Remedial mathematics is offered;
- E: Different classes study different content.

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**SCQ2-21A-H****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 a <U-GRADE> student takes?

A: academic performance;

B: performance on a standardized test;

C: performance on an entrance examination;

:

H: curricular requirements.

**Variable Name(s):** BCBMUFC1, BCBMUFC2, BCBMUFC3, BCBMUFC4, BCBMUFC5, BCBMUFC6, BCBMUFC7, BCBMUFC8

**Link to 1995:** SCQ2-26A-H

BCBMUFC1, BCBMUFC2, BCBMUFC3, BCBMUFC4, BCBMUFC5, BCBMUFC6, BCBMUFC7, BCBMUFC8

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
Belgium (FL)	SCQ2-21B,C	X	Question not administered or data not available.
Chinese Taipei	SCQ2-21A-H	X	Question not administered or data not available.
Iran, Islamic Rep.	SCQ2-21A-H	X	Question not administered or data not available.
Italy	SCQ2-21A-H	X	Question not administered or data not available.
Lithuania	SCQ2-21C,D	X	Question not administered or data not available.
Netherlands	SCQ2-21A-H	D	Asked a general question about factors important in deciding courses of study; same data apply to both mathematics (SCQ2-21) and science (SCQ2-23) questions.
New Zealand	SCQ2-21A-H	D	Question pertains to factors in deciding which 'classes' a student takes, not tracks.
Singapore	SCQ2-21A,E,F	D	A single question about factors used for streaming was asked that pertains to both mathematics and science (SCQ2-23).
Singapore	SCQ2-21B	D	Asked: 'Continual assessments/school exams'. A single question about factors used for streaming was asked that pertains to both mathematics (SCQ2-21) and science (SCQ2-23) questions.
Singapore	SCQ2-21C,D,G,H	D	Data obtained from the ministry.
Slovenia	SCQ2-21A-H	X	Question not administered or data not available.
Tunisia	SCQ2-21A-H	X	Question not administered or data not available.

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**SCQ2-22A-E**

**Question:**

Schools sometimes organize instruction differently for students with different abilities and interests in science. Which of the following does your school do for students in the <U-GRADE>?

- A: All classes study similar content, but at different levels;
- B: Students are grouped by ability;
- C: Enrichment science is offered;
- D: Remedial science is offered;
- E: Different classes study different content.

(E is a filter for Q#22E1.)

South Africa SCQ2-22A-E,E1 X Question not administered or data not available.

**SCQ2-23A-H 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 a <U-GRADE> student takes?

- A: academic performance;
- B: performance on a standardized test;
- C: performance on an entrance examination;
- :
- H: curricular requirements.

**Variable Name(s):** BCBSUFC1, BCBSUFC2, BCBSUFC3, BCBSUFC4, BCBSUFC5, BCBSUFC6, BCBSUFC7, BCBSUFC8

**Link to 1995:** SCQ2-28A-H  
BCBSUFC1, BCBSUFC2, BCBSUFC3, BCBSUFC4, BCBSUFC5, BCBSUFC6, BCBSUFC7, BCBSUFC8

**Trend Status:** Same question and response options administered in 1995.

Country	Item ID	Code	Comment
Belgium (FL)	SCQ2-23B,C,D	X	Question not administered or data not available.
Chinese Taipei	SCQ2-23A-H	X	Question not administered or data not available.
Iran, Islamic Rep.	SCQ2-23A-H	X	Question not administered or data not available.
Italy	SCQ2-23A-H	X	Question not administered or data not available.
Lithuania	SCQ2-23A-H	X	Question not administered or data not available.
Netherlands	SCQ2-23A-H	D	Asked a general question about factors important in deciding courses of study; same data apply to both mathematics and science.
New Zealand	SCQ2-23A-H	D	Question pertains to factors in deciding which 'classes' a student takes, not tracks.
Singapore	SCQ2-23A,B,E,F	D	Asked a single question about factors in deciding which stream a student is in. Same data applied to both mathematics (SCQ2-21) and science (SCQ2-23) questions.
Singapore	SCQ2-23C,D,H,G	D	Data obtained from the ministry.
Slovenia	SCQ2-23A-H	X	Question not administered or data not available.
South Africa	SCQ2-23A-H	X	Question not administered or data not available.
Tunisia	SCQ2-23A-H	X	Question not administered or data not available.



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**SCQ2-24A-M****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.

**Variable Name(s):** BCBGBS01, BCBGBS02, BCBGBS03, BCBGBS04, BCBGBS05, BCBGBS06, BCBGBS07, BCBGBS08, BCBGBS09, BCBGBS10, BCBGBS11, BCBGBS12, BCBGBS13

**Link to 1995:** SCQ2-30A-M  
BCBGSTD1, BCBGSTD2, BCBGSTD3, BCBGSTD4, BCBGSTD5, BCBGSTD6, BCBGSTD7, BCBGSTD8

**Trend Status:** Same question and response options administered in 1995.

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Country	Item ID	Code	Comment
Belgium (FL)	SCQ2-24J,K,L	X	Question not administered or data not available.
Italy	SCQ2-24K,L	X	Question not administered or data not available.
Singapore	SCQ2-24A-M	X	Question not administered or data not available.

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**SCQ2-25A-J****Question:**

Based on your experience, does your school expect parents to...

- A: notify the school about any problems with classmates?;
- B: serve as teacher aides in the classroom?;
- C: raise funds for the school?;
- :
- J: serve on committees which review school finances?.

**Variable Name(s):** BCBGEP01, BCBGEP02, BCBGEP03, BCBGEP04, BCBGEP05, BCBGEP06, BCBGEP07, BCBGEP08, BCBGEP09, BCBGEP10

**Link to 1995:** --

**Trend Status:** Question not administered in 1995.

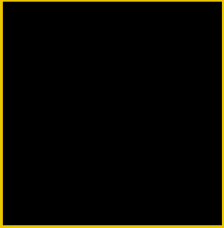
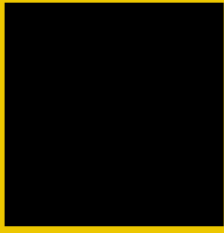
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Country	Item ID	Code	Comment
Australia	SCQ2-25 G	X	Question not administered or data not available.
England	SCQ2-25A-J	X	Question not administered or data not available.
Lithuania	SCQ2-25H	X	Question not administered or data not available.

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