

TRENDS IN INTERNATIONAL MATHEMATICS AND SCIENCE STUDY

TIMSS



TIMSS 2007 User Guide for the International Database

Supplement 2

National Adaptations of
International Background
Questionnaires



TIMSS & PIRLS
International Study Center
Lynch School of Education, Boston College

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TIMSS 2007 User Guide for the International Database

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Supplement 2

National Adaptations of International Background Questionnaires

Overview

This supplement describes national adaptations made to the international version of the TIMSS 2007 background questionnaires. This information provides users with a guide to evaluate the availability of internationally comparable data for use in secondary analyses involving the TIMSS 2007 background variables.

Background questionnaire adaptations include questions that countries were required to adapt, questions that were not administered, and questions that countries modified to suit their national context.

National adaptations are presented in seven sections corresponding to the TIMSS 2007 background questionnaire types.

- Section 1: Fourth Grade Student Questionnaire
- Section 2: Fourth Grade Teacher Questionnaire
- Section 3: Fourth Grade School Questionnaire
- Section 4: Eighth Grade Student Questionnaire
- Section 5: Eighth Grade Mathematics Teacher Questionnaire
- Section 6: Eighth Grade Science Teacher Questionnaire
- Section 7: Eighth Grade School Questionnaire

For each background question that was adapted, a national entry is included if the version of the question administered in a country was different from the international version. For each question, the following information is provided:

- Question number
- Question stem and response options
- Variable name(s)
- National adaptation, listed by country

Each entry is assigned either Code D or Code X representing the following meaning.

- | | |
|--------|---|
| Code D | National data for the country are included in the international database. This code is used for national adaptations that are considered comparable to the international version. |
| Code X | National data for the country are not included in the international database. This code is used for 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). |

**Fourth Grade
Student Questionnaire**

Section 1

SQ1-05A-I

Question:

Do you have any of these things at your home?

- A: Calculator
- B: Computer (do not include PlayStation®, GameCube®, Xbox®, or other TV/video game computers)
- C: Study desk/table for your use
- D: Dictionary
- E: Internet connection
- F: <country-specific>
- G: <country-specific>
- H: <country-specific>
- I: <country-specific>
- 1 = Yes
- 2 = No

Variable Name(s): AS4GTH01, AS4GTH02, AS4GTH03, AS4GTH04, AS4GTH05, AS4GTH06, AS4GTH07, AS4GTH08, AS4GTH09

Country	Question / Option	Code	Documentation
ALBERTA, CANADA	SQ1-05F	D	Your own room
ALBERTA, CANADA	SQ1-05G-I	X	Option not administered or data not available
ALGERIA	SQ1-05F-I	X	Option not administered or data not available
ARMENIA	SQ1-05F	D	Bible
ARMENIA	SQ1-05G-I	X	Option not administered or data not available
AUSTRALIA	SQ1-05F	D	Game consoles (e.g., PlayStation®, GameCube®, Xbox®)
AUSTRALIA	SQ1-05G	D	Digital camera
AUSTRALIA	SQ1-05H	D	Portable MP3 player (e.g., iPod)
AUSTRALIA	SQ1-05I	D	More than one bathroom
AUSTRIA	SQ1-05F	D	A second bathroom
AUSTRIA	SQ1-05G	D	MP3 player
AUSTRIA	SQ1-05H	D	MiniDisk player
AUSTRIA	SQ1-05I	D	Digital camcorder
BRITISH COLUMBIA, CANADA	SQ1-05F	D	Your own room
BRITISH COLUMBIA, CANADA	SQ1-05G-I	X	Option not administered or data not available
CHINESE TAIPEI	SQ1-05F	D	Compact disc, software, or videotape for learning math
CHINESE TAIPEI	SQ1-05G	D	Reference book for learning math
CHINESE TAIPEI	SQ1-05H	D	Compact disc, software, or videotape for learning science
CHINESE TAIPEI	SQ1-05I	D	Reference book for learning science
COLOMBIA	SQ1-05F-I	X	Option not administered or data not available
CZECH REPUBLIC	SQ1-05F	D	Your own Discman or MP3 player
CZECH REPUBLIC	SQ1-05G	D	Digital camera (does not include camera phone)
CZECH REPUBLIC	SQ1-05H	D	Camcorder
CZECH REPUBLIC	SQ1-05I	D	Dishwasher
DENMARK	SQ1-05F-I	X	Option not administered or data not available
DUBAI, UAE	SQ1-05F	D	Your own room (data available only for the Arabic questionnaires)
DUBAI, UAE	SQ1-05G	D	A maid (data available only for the Arabic questionnaires)

Section 1: Fourth Grade – Student Questionnaire

DUBAI, UAE	SQ1-05H	D	A driver (data available only for the Arabic questionnaires)
DUBAI, UAE	SQ1-05I	X	Option not administered or data not available
EL SALVADOR	SQ1-05F	D	Telephone
EL SALVADOR	SQ1-05G	D	Sound system
EL SALVADOR	SQ1-05H	D	TV
EL SALVADOR	SQ1-05I	D	Washing machine
ENGLAND	SQ1-05F	D	Own bedroom
ENGLAND	SQ1-05G	D	Mobile phone
ENGLAND	SQ1-05H	D	Encyclopedia (book or CD-ROM)
ENGLAND	SQ1-05I	X	Option not administered or data not available
GEORGIA	SQ1-05F	D	Extracurricular reading materials (e.g., children's encyclopedias in mathematics and science, literature for children in mathematics and science)
GEORGIA	SQ1-05G	D	Maps, geographical atlases
GEORGIA	SQ1-05H-I	X	Option not administered or data not available
GERMANY	SQ1-05F	D	Two cars
GERMANY	SQ1-05G	D	Dishwasher
GERMANY	SQ1-05H	D	Piano
GERMANY	SQ1-05I	D	Lawn mower
HONG KONG SAR	SQ1-05F	D	Video CD, software, videotape for learning mathematics
HONG KONG SAR	SQ1-05G	D	Reference books for learning mathematics
HONG KONG SAR	SQ1-05H	D	Video CD, software, videotape for learning science
HONG KONG SAR	SQ1-05I	D	Reference books for learning science
HUNGARY	SQ1-05F	D	Car
HUNGARY	SQ1-05G	D	Your own books
HUNGARY	SQ1-05H	D	Digital camera (not part of a phone)
HUNGARY	SQ1-05I	X	Option not administered or data not available
IRAN, ISLAMIC REP. OF	SQ1-05F	D	Car
IRAN, ISLAMIC REP. OF	SQ1-05G	D	Camera recorder
IRAN, ISLAMIC REP. OF	SQ1-05H	D	Cell phone
IRAN, ISLAMIC REP. OF	SQ1-05I	D	Dishwasher
ITALY	SQ1-05F	D	Room of your very own
ITALY	SQ1-05G	D	Digital camera for your use
ITALY	SQ1-05H	D	Air conditioning
ITALY	SQ1-05I	D	Antitheft system
JAPAN	SQ1-05F	D	Books and puzzles on mathematics
JAPAN	SQ1-05G	D	Telescope
JAPAN	SQ1-05H	D	Terrestrial globe
JAPAN	SQ1-05I	D	Pictorial book of flora
KAZAKHSTAN	SQ1-05F	D	Video camera
KAZAKHSTAN	SQ1-05G	D	Your own mobile phone
KAZAKHSTAN	SQ1-05H	D	Car
KAZAKHSTAN	SQ1-05I	D	Your own room
KUWAIT	SQ1-05F-I	X	Option not administered or data not available
LATVIA	SQ1-05F	D	Own room

Section 1: Fourth Grade – Student Questionnaire

LATVIA	SQ1-05G	D	Encyclopedia
LATVIA	SQ1-05H	D	DVD player
LATVIA	SQ1-05I	D	Own CD player
LITHUANIA	SQ1-05F	D	Own room
LITHUANIA	SQ1-05G	D	Car
LITHUANIA	SQ1-05H	D	Garage
LITHUANIA	SQ1-05I	D	Two TVs
MASSACHUSETTS, US	SQ1-05F	D	Encyclopedia (book or CD-ROM)
MASSACHUSETTS, US	SQ1-05G	D	PlayStation®, GameCube®, Xbox®, or other TV/video game system
MASSACHUSETTS, US	SQ1-05H	D	VHS or DVD player
MASSACHUSETTS, US	SQ1-05I	D	Three or more cars, small trucks, or sport utility vehicles
MINNESOTA, US	SQ1-05F	D	Encyclopedia (book or CD-ROM)
MINNESOTA, US	SQ1-05G	D	PlayStation®, GameCube®, Xbox®, or other TV/video game system
MINNESOTA, US	SQ1-05H	D	VHS or DVD player
MINNESOTA, US	SQ1-05I	D	Three or more cars, small trucks, or sport utility vehicles
MOROCCO	SQ1-05F	D	Geometric tools
MOROCCO	SQ1-05G	D	Games
MOROCCO	SQ1-05H	D	Access to educational TV channels
MOROCCO	SQ1-05I	X	Option not administered or data not available
NETHERLANDS	SQ1-05F-I	X	Option not administered or data not available
NEW ZEALAND	SQ1-05F	D	Your own room
NEW ZEALAND	SQ1-05G	D	Your own mobile phone
NEW ZEALAND	SQ1-05H	D	Musical instruments (e.g., piano, violin, guitar)
NEW ZEALAND	SQ1-05I	D	Dishwasher
NORWAY	SQ1-05F	D	Encyclopedia
NORWAY	SQ1-05G	D	Atlas
NORWAY	SQ1-05H	D	Globe
NORWAY	SQ1-05I	D	Binoculars
ONTARIO, CANADA	SQ1-05F	D	Your own room
ONTARIO, CANADA	SQ1-05G-I	X	Option not administered or data not available
QATAR	SQ1-05F	D	Private room
QATAR	SQ1-05G	D	Private maid
QATAR	SQ1-05H	D	Private car driver
QATAR	SQ1-05I	X	Option not administered or data not available
QUEBEC, CANADA	SQ1-05F	D	Your own room
QUEBEC, CANADA	SQ1-05G-I	X	Option not administered or data not available
RUSSIAN FEDERATION	SQ1-05F	D	Video camera
RUSSIAN FEDERATION	SQ1-05G	D	Your own mobile phone
RUSSIAN FEDERATION	SQ1-05H	D	Car
RUSSIAN FEDERATION	SQ1-05I	D	Your own room
SCOTLAND	SQ1-05F	D	Own bedroom
SCOTLAND	SQ1-05G	D	Mobile phone
SCOTLAND	SQ1-05H	D	Encyclopedia (book or CD-ROM)

Section 1: Fourth Grade – Student Questionnaire

SCOTLAND	SQ1-05I	X	Option not administered or data not available
SINGAPORE	SQ1-05F	D	Car
SINGAPORE	SQ1-05G	D	Domestic help (e.g., maid)
SINGAPORE	SQ1-05H	D	Mobile phone
SINGAPORE	SQ1-05I	D	Piano/ Organ/ Violin
SLOVAK REPUBLIC	SQ1-05F	D	Your own library
SLOVAK REPUBLIC	SQ1-05G	D	Your own mobile phone
SLOVAK REPUBLIC	SQ1-05H	D	Personal car
SLOVAK REPUBLIC	SQ1-05I	D	DVD player
SLOVENIA	SQ1-05F	D	My own room
SLOVENIA	SQ1-05G	D	My own computer
SLOVENIA	SQ1-05H	D	More than one bathroom
SLOVENIA	SQ1-05I	D	I go to outside school activities that parents pay for
SWEDEN	SQ1-05F	D	Subscription to a journal on nature or technology
SWEDEN	SQ1-05G	D	Compass
SWEDEN	SQ1-05H	D	Bird, mushroom, or flora book to look up species
SWEDEN	SQ1-05I	D	Binoculars
TUNISIA	SQ1-05F	D	Magazines for children
TUNISIA	SQ1-05G	D	Books of classic literature
TUNISIA	SQ1-05H	D	Satellite dish
TUNISIA	SQ1-05I	D	Video recorder or DVD
UKRAINE	SQ1-05F	D	TV
UKRAINE	SQ1-05G	D	Personal books
UKRAINE	SQ1-05H	D	Bicycle
UKRAINE	SQ1-05I	D	Cell phone
UNITED STATES	SQ1-05F	D	Encyclopedia (book or CD-ROM)
UNITED STATES	SQ1-05G	D	PlayStation®, GameCube®, Xbox®, or other TV/video game system
UNITED STATES	SQ1-05H	D	VHS or DVD player
UNITED STATES	SQ1-05I	D	Three or more cars, small trucks, or sport utility vehicles
YEMEN	SQ1-05F	X	Option not administered or data not available
YEMEN	SQ1-05G	X	Option not administered or data not available
YEMEN	SQ1-05H	X	Option not administered or data not available
YEMEN	SQ1-05I	X	Option not administered or data not available

SQ1-09A-J

Question:

- In school, how often do you do these things?
 A: I look at something like the weather or a plant growing and write down what I see
 B: I watch the teacher do a science experiment
 C: I design or plan a science experiment or investigation
 D: I do a science experiment or investigation
 E: I work with other students in a small group on a science experiment or investigation
 F: I read books about science
 G: I memorize science facts
 H: I write or give an explanation for something I am studying in science
 I: I work science problems on my own
 J: I use a computer in science lessons
 1 = At least once a week
 2 = Once or twice a month
 3 = A few times a year
 4 = Never

Variable Name(s): AS4SLWPS, AS4SWATE, AS4SHPEX, AS4SDESI, AS4SHWGX, AS4SRBSC, AS4SMESF, AS4SWESS, AS4SWSP0, AS4SCOSL

Country	Question / Option	Code	Documentation
MASSACHUSETTS, US	SQ1-09C	D	I design or plan a science experiment or project
MASSACHUSETTS, US	SQ1-09D	D	I do a science experiment or project
MASSACHUSETTS, US	SQ1-09E	D	I work with other students in a small group on a science experiment or project
MINNESOTA, US	SQ1-09C	D	I design or plan a science experiment or project
MINNESOTA, US	SQ1-09D	D	I do a science experiment or project
MINNESOTA, US	SQ1-09E	D	I work with other students in a small group on a science experiment or project
UNITED STATES	SQ1-09C	D	I design or plan a science experiment or project
UNITED STATES	SQ1-09D	D	I do a science experiment or project
UNITED STATES	SQ1-09E	D	I work with other students in a small group on a science experiment or project

SQ1-12A-E

Question:

- In school, did any of these things happen during the last month?
 A: Something of mine was stolen
 B: I was hit or hurt by other student(s) (for example, shoving, hitting, kicking)
 C: I was made to do things I didn't want to do by other students
 D: I was made fun of or called names
 E: I was left out of activities by other students
 1 = Yes
 2 = No

Variable Name(s): AS4GSTOL, AS4GHURT, AS4GMADE, AS4GMFUN, AS4GLEFT

Country	Question / Option	Code	Documentation
MASSACHUSETTS, US	SQ1-12A-E	X	Question not administered or data not available
MINNESOTA, US	SQ1-12A-E	X	Question not administered or data not available
UNITED STATES	SQ1-12A-E	X	Question not administered or data not available

Section 1: Fourth Grade – Student Questionnaire

SQ1-16A-B

Question:

- A: Was your mother (or stepmother or female guardian) born in <country>?
 B: Was your father (or stepfather or male guardian) born in <country>?
 1 = Yes
 2 = No

Variable Name(s): AS4GMBRN, AS4GFBRN

Country	Question / Option	Code	Documentation
NETHERLANDS	SQ1-16A	D	Stem of the question changed: In which country was your mother (living at your home) born? Your mother can also be your stepmother or foster mother. Home is where you live most days of the week. National options recoded to fit international categories: 1 = Netherlands 2 = The Netherlands Antilles / Surinam / Morocco / Turkey / Moluccas / Other country
NETHERLANDS	SQ1-16B	D	Stem of the question changed: In which country was your father (living at your home) born? Your father can also be your stepfather or foster father. Home is where you live most days of the week. National options recoded to fit international categories: 1 = Netherlands 2 = The Netherlands Antilles / Surinam / Morocco / Turkey / Moluccas / Other country

SQ1-17A-B

Question:

- A: Were you born in <country>?
 1 = Yes
 2 = No
 B: If you were not born in <country>, how old were you when you came to <country>?
 1 = Older than 5 years old
 2 = 1 to 5 years old
 3 = Younger than 1 year old

Variable Name(s): AS4GBORN, AS4GBRNC

Country	Question / Option	Code	Documentation
NETHERLANDS	SQ1-17A	D	Stem of the question changed: In which country are you born? National options recoded to fit international categories: 1 = Netherlands 2 = The Netherlands Antilles / Surinam / Morocco / Turkey / Moluccas / Other country

ITLANG**Question:**

LANGUAGE OF TEST

Variable Name(s): ITLANG

Country	Question / Option	Code	Documentation
ALBERTA, CANADA	ITLANG	D	1 = English 2 = French
ALGERIA	ITLANG	D	1 = Arabic
ARMENIA	ITLANG	D	1 = Armenian
AUSTRALIA	ITLANG	D	1 = English
AUSTRIA	ITLANG	D	1 = German
BRITISH COLUMBIA, CANADA	ITLANG	D	1 = English 2 = French
CHINESE TAIPEI	ITLANG	D	1 = Traditional Chinese
COLOMBIA	ITLANG	D	1 = Spanish
CZECH REPUBLIC	ITLANG	D	1 = Czech
DENMARK	ITLANG	D	1 = Danish
DUBAI, UAE	ITLANG	D	1 = Arabic 2 = English
EL SALVADOR	ITLANG	D	1 = Spanish
ENGLAND	ITLANG	D	1 = English
GEORGIA	ITLANG	D	1 = Georgian
GERMANY	ITLANG	D	1 = German
HONG KONG SAR	ITLANG	D	1 = Modern Standard Chinese 2 = English
HUNGARY	ITLANG	D	1 = Hungarian
IRAN, ISLAMIC REP. OF	ITLANG	D	1 = Farsi
ITALY	ITLANG	D	1 = Italian
JAPAN	ITLANG	D	1 = Japanese
KAZAKHSTAN	ITLANG	D	1 = Russian 2 = Kazakh
KUWAIT	ITLANG	D	1 = Arabic
LATVIA	ITLANG	D	1 = Latvian
LITHUANIA	ITLANG	D	1 = Lithuanian
MASSACHUSETTS, US	ITLANG	D	1 = English
MINNESOTA, US	ITLANG	D	1 = English
MOROCCO	ITLANG	D	1 = Arabic
NETHERLANDS	ITLANG	D	1 = Dutch
NEW ZEALAND	ITLANG	D	1 = English
NORWAY	ITLANG	D	1 = Norwegian
ONTARIO, CANADA	ITLANG	D	1 = English 2 = French
QATAR	ITLANG	D	1 = Arabic 2 = English

Section 1: Fourth Grade – Student Questionnaire

QUEBEC, CANADA	ITLANG	D	1 = English 2 = French
RUSSIAN FEDERATION	ITLANG	D	1 = Russian
SCOTLAND	ITLANG	D	1 = English
SINGAPORE	ITLANG	D	1 = English
SLOVAK REPUBLIC	ITLANG	D	1 = Slovak 2 = Hungarian
SLOVENIA	ITLANG	D	1 = Slovene
SWEDEN	ITLANG	D	1 = Swedish
TUNISIA	ITLANG	D	1 = Arabic
UKRAINE	ITLANG	D	1 = Ukrainian 2 = Russian
UNITED STATES	ITLANG	D	1 = English
YEMEN	ITLANG	D	1 = Arabic

**Fourth Grade
Teacher Questionnaire**

Section 2

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TQ1-03**Question:**

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

Variable Name(s): AT4GTAUT

Country	Question / Option	Code	Documentation
MASSACHUSETTS, US	TQ1-03	D	Stem of the question changed: By the end of this school year, how many years will you have been teaching altogether? Do not include substitute or student teaching. 3A = Number of years you have taught full-time 3B = Number of years you have taught part-time National options recoded to fit international question: Calculated number of years taught full-time plus number of years taught part-time
MINNESOTA, US	TQ1-03	D	Stem of the question changed: By the end of this school year, how many years will you have been teaching altogether? Do not include substitute or student teaching. 3A = Number of years you have taught full-time 3B = Number of years you have taught part-time National options recoded to fit international question: Calculated number of years taught full-time plus number of years taught part-time
UNITED STATES	TQ1-03	D	Stem of the question changed: By the end of this school year, how many years will you have been teaching altogether? Do not include substitute or student teaching. 3A = Number of years you have taught full-time 3B = Number of years you have taught part-time National options recoded to fit international question: Calculated number of years taught full-time plus number of years taught part-time

Section 2: Fourth Grade – Teacher Questionnaire

TQ1-04

Question:

Do you have a teaching license or certificate?

1 = Yes

2 = No

Variable Name(s): AT4GTLCE

Country	Question / Option	Code	Documentation
AUSTRALIA	TQ1-04	D	Stem of the question changed: Do you have a teaching registration or approval to teach from a government education department?
AUSTRIA	TQ1-04	D	Gang punched to "Yes"
COLOMBIA	TQ1-04	X	Question not administered or data not available
HUNGARY	TQ1-04	X	Question not administered or data not available
LATVIA	TQ1-04	X	Question not administered or data not available
NETHERLANDS	TQ1-04	X	Question not administered or data not available
NEW ZEALAND	TQ1-04	D	Stem of question changed: Do you have a current practicing teaching certificate?
SCOTLAND	TQ1-04	D	Gang punched to "Yes"
SWEDEN	TQ1-04	D	Stem of the question changed: Do you have a teaching qualification?

TQ1-05**Question:**

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

- 1 = Did not complete <ISCED 3>
- 2 = Finished <ISCED 3>
- 3 = Finished <ISCED 4>
- 4 = Finished <ISCED 5B>
- 5 = Finished <ISCED 5A, first degree>
- 6 = Finished <ISCED 5A, second degree> or higher

Variable Name(s): AT4GFEDC

Country	Question / Option	Code	Documentation
ALBERTA, CANADA	TQ1-05	D	National options recoded to fit international categories: 1 = Did not complete secondary school 2 = Secondary school 3 = Some postsecondary education (English version) / College, CEGEP (French version) 4 = College or technical institute (English version) / Option not administered or data not available (French version) 5 = University, first degree 6 = University, second or higher degree
ALGERIA	TQ1-05	D	Nationally defined options: 1 = Did not complete secondary schooling 2 = Secondary schooling 3 = Technician certificate 4 = High-level technician diploma / Applied higher education diploma / ITE 5 = Diploma, Bachelor of Arts 6 = Postgraduate or higher degree
ARMENIA	TQ1-05	D	National options recoded to fit international categories: 1 = Did not complete secondary school 2 = Secondary school 3 = Secondary professional college 4 = Option not administered or data not available 5 = Nonprofessional high school / Higher education 6 = Ph.D. or Doctor of Science
AUSTRALIA	TQ1-05	D	National options recoded to fit international categories: 1 = Did not complete secondary school 2 = Secondary school 3 = TAFE training certificate (e.g., hairdressing or bricklaying) 4 = TAFE or college diploma (e.g., Diploma in Information Technology, Diploma in Veterinary Nursing) 5 = Bachelor's degree 6 = Postgraduate or graduate diploma (e.g., Diploma of Education) / Master's degree or higher
AUSTRIA	TQ1-05	D	National options recoded to fit international categories: 1 = Option not administered or data not available 2 = School with school-leaving examination (e.g., AHS, BHS, HTL, HAK) 3 = School for nursing or medical-technical profession 4 = Pedagogical academy or social academy or training for foreman/technician 5 = Study at the university or college (with baccalaureate) 6 = Study at the university or college (with diploma or doctor degree)

Section 2 : Fourth Grade – Teacher Questionnaire

BRITISH COLUMBIA, CANADA	TQ1-05	D	Nationally defined options recoded to fit international categories: 1 = Did not complete secondary school 2 = Secondary school 3 = Some postsecondary education (English version) / College, CEGEP (French version) 4 = College or technical institute (English version) / Option not administered or data not available (French version) 5 = University, first degree 6 = University, second or higher degree
CHINESE TAIPEI	TQ1-05	D	Nationally defined options: 1 = Did not finish senior high school, vocational school, or equivalent level 2 = Teacher school, senior high school, vocational school 3 = Junior teacher college, junior college (2-year or 5- year system) 4 = College of technology (2-year system) 5 = University or college (including 4-year Institute of Technology) 6 = Master's degree or Ph.D.
COLOMBIA	TQ1-05	D	National options recoded to fit international categories: 1 = Did not complete high school (grades 10-11) 2 = High school (grades 10-11) 3 = Technical college 4 = Option not administered or data not available 5 = Bachelor's degree 6 = Master's degree / Ph.D.
CZECH REPUBLIC	TQ1-05	D	Nationally defined options: 1 = Did not complete secondary school 2 = Secondary school 3 = Extension study (postsecondary, nontertiary level) 4 = Higher professional school or conservatory 5 = Bachelor's degree 6 = Master's or higher degree
DENMARK	TQ1-05	D	Nationally defined options: 1 = Did not complete gymnasium (HF, HHX, or HTX) 2 = Gymnasium (HF, HHX, or HTX) 3 = Advanced education of less than 2 years (e.g., supplementary courses at the upper-secondary level, workshops etc.) 4 = Advanced education of at least 2 years 5 = Bachelor's degree of at least 3 years (e.g., teaching, nursing etc.) 6 = Advanced education of at least 5 years (e.g., candidate, Ph.D. etc.)
DUBAI, UAE	TQ1-05	D	Nationally defined options: 1 = Did not complete secondary education 2 = Secondary education 3 = Diploma (nontertiary education) 4 = Higher diploma (tertiary education) 5 = Bachelor's degree 6 = Postuniversity degree (data available only for the Arabic questionnaires)
EL SALVADOR	TQ1-05	D	Nationally defined options: 1 = Did not complete secondary education 2 = Secondary education 3 = Postsecondary (technical) 4 = Undergraduate technical degree 5 = Undergraduate degree 6 = Postgraduate degree
ENGLAND	TQ1-05	D	Nationally defined options: 1 = Did not complete A levels or equivalent 2 = A levels or equivalent 3 = Access course for higher education or HND 4 = Certificate of Education 5 = First degree 6 = Postgraduate degree

Section 2: Fourth Grade – Teacher Questionnaire

GEORGIA	TQ1-05	D	National options recoded to fit international categories: 1 = Did not complete secondary education 2 = Secondary education 3 = Option not administered or data not available 4 = Option not administered or data not available 5 = Bachelor' s degree 6 = 5 years tertiary education diploma / Master's degree / Scientific degree (Ph.D.)
GERMANY	TQ1-05	D	National options recoded to fit international categories: 1 = Did not complete high school (10 years), preparation for vocational studies/non-academic, or higher secondary school (12 years) 2 = High school (10 years), preparation for vocational studies/non-academic, or higher secondary school (12 years) / Vocational or technical education 3 = Option not administered or data not available 4 = Option not administered or data not available 5 = University (master's/bachelor's degree) or other tertiary degree 6 = Option not administered or data not available
HONG KONG SAR	TQ1-05	D	Nationally defined options: 1 = Did not complete secondary 2 = Secondary only 3 = Secondary and vocational training 4 = Secondary and completed certificate, diploma, or associate's degree 5 = Bachelor's degree or equivalent 6 = Master's or higher degree
HUNGARY	TQ1-05	X	Question not administered or data not available
IRAN, ISLAMIC REP. OF	TQ1-05	D	Nationally defined options: 1 = Did not complete high school 2 = High school 3 = College 4 = Associate's degree in technical subjects or in theoretical subjects 5 = First degree 6 = Master's degree or higher
ITALY	TQ1-05	D	National options recoded to fit international categories: 1 = Option not administered or data not available 2 = Secondary school 3 = A professional training course after secondary school (e.g., technical-scientific instruction and training) 4 = Postsecondary school courses or higher diploma (Physical Education Institute, Institute of Fine Arts, Conservatory) 5 = University 6 = Specialization school, postgraduate course, master's degree, or Ph.D.
JAPAN	TQ1-05	D	Nationally defined options: 1 = Did not complete upper secondary school 2 = Upper secondary school 3 = Junior college 4 = Specific college (e.g., the Meteorological College, National Defense Academy) 5 = University or college 6 = Graduate school or higher
KAZAKHSTAN	TQ1-05	D	Nationally defined options recoded to fit international categories: 1 = Did not complete secondary education 2 = Secondary general education 3 = Secondary professional education 4 = Option not administered or data not available 5 = Higher education, 4 years 6 = Higher education, 5 years / Second higher education or Ph.D.

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KUWAIT	TQ1-05	D	National options recoded to fit international categories: 1 = Did not complete secondary school 2 = Secondary school 3 = Diploma (2 years after secondary school) 4 = Option not administered or data not available 5 = Bachelor's degree 6 = Master's degree / Ph.D.
LATVIA	TQ1-05	D	National options recoded to fit international categories: 1 = Did not complete secondary school 2 = Secondary school or vocational secondary school / Did not complete university 3 = Technical college or vocational school after secondary school 4 = Option not administered or data not available 5 = Bachelor's or master's degree 6 = Ph.D.
LITHUANIA	TQ1-05	D	Nationally defined options: 1 = Did not complete secondary education 2 = Secondary education 3 = Further postsecondary education 4 = Higher nonuniversity education 5 = Bachelor's degree 6 = Master's degree (or equivalent) or higher degree
MASSACHUSETTS, US	TQ1-05	D	National options recoded to fit international categories: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (A.A.) in a vocational/technical program 5 = Academic associate's or bachelor's degree 6 = Academic master's degree, postgraduate certificate program (e.g., teaching), or first professional degree (e.g., law, medicine, dentistry) / Doctorate (Ph.D. or Ed.D.)
MINNESOTA, US	TQ1-05	D	National options recoded to fit international categories: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (A.A.) in a vocational/technical program 5 = Academic associate's or bachelor's degree 6 = Academic master's degree, postgraduate certificate program (e.g., teaching), or first professional degree (e.g., law, medicine, dentistry) / Doctorate (Ph.D. or Ed.D.)
MOROCCO	TQ1-05	D	National options recoded to fit international categories: 1 = Did not finish baccalaureat diploma 2 = Baccalaureat diploma 3 = Option not administered or data not available 4 = General academic studies diploma 5 = License diploma 6 = Postgraduate diploma / Ph.D.
NETHERLANDS	TQ1-05	D	National options recoded to fit international categories: 1 = Did not complete any secondary general education or vocational education 2 = Secondary general or vocational education 3 = Option not administered or data not available 4 = Option not administered or data not available 5 = Higher vocational education 6 = University / Ph.D.
NEW ZEALAND	TQ1-05	D	National options recoded to fit international categories: 1 = Option not administered or data not available 2 = Option not administered or data not available 3 = Option not administered or data not available 4 = College of education diploma (primary teaching) 5 = Bachelor's degree 6 = Postgraduate degree program or higher (e.g., Bachelor's honors, master's, Ph.D.)

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NORWAY	TQ1-05	D	National options recoded to fit international categories: 1 = Primary and lower secondary school 2 = Upper secondary school 3 = Option not administered or data not available 4 = Teacher college 5 = Candidates' examination, lower degree with pedagogy from university 6 = Candidates' examination, higher degree with pedagogy from university
ONTARIO, CANADA	TQ1-05	D	National options recoded to fit international categories: 1 = Did not complete secondary school 2 = Secondary school 3 = Some postsecondary education (English version) / College, CEGEP (French version) 4 = College or technical institute (English version) / Option not administered or data not available (French version) 5 = University, first degree 6 = University, second or higher degree
QATAR	TQ1-05	D	National options recoded to fit international categories: 1 = Did not complete secondary education 2 = Secondary education 3 = Nontertiary institute / Tertiary institute 4 = Option not administered or data not available 5 = University 6 = Postuniversity
QUEBEC, CANADA	TQ1-05	D	National options recoded to fit international categories: 1 = Did not complete secondary school 2 = Secondary school 3 = Some postsecondary education (English version) / College, CEGEP (French version) 4 = College or technical institute (English version) / Option not administered or data not available (French version) 5 = University, first degree 6 = University, second or higher degree
RUSSIAN FEDERATION	TQ1-05	D	National options recoded to fit international categories: 1 = Did not complete secondary education 2 = Secondary general education 3 = Secondary professional education 4 = Option not administered or data not available 5 = Higher education, 4 years 6 = Higher education, 5-6 years / Second higher education or Ph.D.
SCOTLAND	TQ1-05	D	National options recoded to fit international categories: 1 = Option not administered or data not available 2 = Option not administered or data not available 3 = Option not administered or data not available 4 = Option not administered or data not available 5 = First degree 6 = Postgraduate degree
SINGAPORE	TQ1-05	D	Nationally defined options: 1 = Did not complete upper secondary education 2 = Upper secondary education 3 = Postsecondary nontertiary (e.g., JC / Pre-U / ITE) 4 = Diploma (e.g., Polytechnic) 5 = University (first degree) 6 = University (master's degree) or higher
SLOVAK REPUBLIC	TQ1-05	D	National options recoded to fit international categories: 1 = Did not complete secondary school 2 = Secondary school with final examination 3 = Option not administered or data not available 4 = Option not administered or data not available 5 = Bachelor's degree 6 = Master's degree / Higher study (Ph.Dr., R.N.Dr., Paed.Dr.) / Third degree (Ph.D.)

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SLOVENIA	TQ1-05	D	Nationally defined options: 1 = Did not complete secondary school 2 = Secondary school 3 = Vocational courses after secondary school 4 = 2 to 3 years of university studies (called higher studies) 5 = 4 years of university studies 6 = Master's degree or Ph.D.
SWEDEN	TQ1-05	D	Nationally defined options: 1 = Did not complete upper secondary school 2 = Upper secondary school 3 = Postsecondary nontertiary education 4 = University certificate (at least 80p, less than 120p), 2-3 years 5 = University degree (120-160p), at least 3 years 6 = University degree (160p or higher)
TUNISIA	TQ1-05	D	Nationally defined options: 1 = Did not complete secondary education 2 = Secondary education 3 = Vocational education after higher secondary diploma 4 = First cycle of university 5 = Second cycle of university 6 = Third cycle of university
UKRAINE	TQ1-05	D	Nationally defined options: 1 = Did not complete secondary education 2 = Secondary education 3 = Secondary vocational education 4 = College education 5 = Higher education, bachelor's degree 6 = Higher education, master's or higher degree
UNITED STATES	TQ1-05	D	National options recoded to fit international categories: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (A.A.) in a vocational/technical program 5 = Academic associate's or bachelor's degree 6 = Academic master's degree, postgraduate certificate program (e.g., teaching), or first professional degree (e.g., law, medicine, dentistry) / Doctorate (Ph.D. or Ed.D.)
YEMEN	TQ1-05	D	National options recoded to fit international categories: 1 = Did not complete secondary stage 2 = Secondary stage 3 = Postsecondary diploma 4 = Option not administered or data not available 5 = University 6 = Master's or higher degree

TQ1-06AA-AE**Question:**

During your <post-secondary> education, what was your major or main area(s) of study?

A: Education - <Primary/Elementary>

B: Education - Secondary

C: Mathematics

D: Science

E: Other

1 = Yes

2 = No

Variable Name(s): AT4GPSEP, AT4GPSES, AT4MPSMA, AT4SPSSC, AT4GPSOT

Country	Question / Option	Code	Documentation
ARMENIA	TQ1-06AA	D	Stem of the question changed: During your higher education, what was your major or main area(s) of study? Education elementary
ARMENIA	TQ1-06AB-AE	D	Stem of the question changed: During your higher education, what was your major or main area(s) of study?
AUSTRALIA	TQ1-06AA	D	Education - Primary
AUSTRIA	TQ1-06AA	D	Education - Primary school
AUSTRIA	TQ1-06AB	D	Education - Secondary school / Education for higher schools
AUSTRIA	TQ1-06AD	D	Biology / Geography / Chemistry / Physics
AUSTRIA	TQ1-06AE	D	Special education / Other
CHINESE TAIPEI	TQ1-06AA	D	Stem of the question changed: During the education after you finished secondary school, what was your major or main area(s) of interest? Elementary education
CHINESE TAIPEI	TQ1-06AB-AE	D	Stem of the question changed: During the education after you finished secondary school, what was your major or main area(s) of interest?
COLOMBIA	TQ1-06AA	D	Stem of the question changed: During your teacher formation, what was your major or main area(s) of study? Primary education
COLOMBIA	TQ1-06AB-AE	D	Stem of the question changed: During your teacher formation, what was your major or main area(s) of study?
CZECH REPUBLIC	TQ1-06AA	D	Stem of the question changed: During your postsecondary or university education, what was your major or main area(s) of study? Education - Primary
CZECH REPUBLIC	TQ1-06AB-AE	D	Stem of the question changed: During your postsecondary or university education, what was your major or main area(s) of study?
DENMARK	TQ1-06AA	D	Pedagogy for children up to 11 years
DENMARK	TQ1-06AB	D	Pedagogy for children older than 11 years
EL SALVADOR	TQ1-06AA	D	Basic/elementary
EL SALVADOR	TQ1-06AD	D	Science (natural)
ENGLAND	TQ1-06AA	D	Education - Primary

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GEORGIA	TQ1-06AA	D	Stem of the question changed: During your tertiary education, what was your major area(s) of study? Education – Primary school level
GEORGIA	TQ1-06AB-AE	D	Stem of the question changed: During your tertiary education, what was your major area(s) of study?
GERMANY	TQ1-06AA	D	Stem of the question changed: Which qualification did you acquire during your studies for being a teacher? Qualification for primary school
GERMANY	TQ1-06AB	D	Stem of the question changed: Which qualification did you acquire during your studies for being a teacher? Qualification for secondary school
GERMANY	TQ1-06AC-AD	X	Option not administered or data not available
GERMANY	TQ1-06AE	D	Stem of the question changed: Which qualification did you acquire during your studies for being a teacher? Qualification to teach in a school for students with special needs
HONG KONG SAR	TQ1-06AA	D	Education (primary)
HUNGARY	TQ1-06AA	D	Stem of the question changed: What were your majors during your tertiary education? National options recoded to fit international categories: Primary school teacher (grades 1-4) / Primary school teacher (grades 5-8)
HUNGARY	TQ1-06AB-AE	D	Stem of the question changed: What were your majors during your tertiary education?
IRAN, ISLAMIC REP. OF	TQ1-06AA	D	Primary education
ITALY	TQ1-06AA	D	Education - Primary education
ITALY	TQ1-06AB	D	Education - General
JAPAN	TQ1-06AA	D	Education - Elementary school
KAZAKHSTAN	TQ1-06AA	D	Education - Primary
LATVIA	TQ1-06AA	D	Stem of the question changed: During your higher education, what was your major or main area(s) of study? Pedagogy in primary school and lower secondary school
LATVIA	TQ1-06AB-AE	D	Stem of the question changed: During your higher education, what was your major or main area(s) of study?
MASSACHUSETTS, US	TQ1-06AA-AE	D	Stem of the question changed: During your college or university education, what was your major or main area(s) of study? National categories recoded to fit international categories: 1 = Major/Minor 2 = No

Section 2: Fourth Grade – Teacher Questionnaire

MINNESOTA, US	TQ1-06AA-AE	D	Stem of the question changed: During your college or university education, what was your major or main area(s) of study? National categories recoded to fit international categories: 1 = Major/Minor 2 = No
NETHERLANDS	TQ1-06AA	D	Stem of the question changed: Which teacher training did you complete with a diploma? PABO / 2-year PABO / PA, kweekschool
NETHERLANDS	TQ1-06AB	D	Stem of the question changed: Which teacher training did you complete with a diploma? Teacher training for secondary school teachers
NETHERLANDS	TQ1-06AC-AD	X	Option not administered or data not available
NETHERLANDS	TQ1-06AE	D	Stem of the question changed: Which teacher training did you complete with a diploma? Not yet finished
NEW ZEALAND	TQ1-06AA	D	Education - Primary
NORWAY	TQ1-06AA-AE	X	Question not administered or data not available
RUSSIAN FEDERATION	TQ1-06AA	D	Education - Primary
SCOTLAND	TQ1-06AA	D	Education - Primary
SINGAPORE	TQ1-06AA	D	Education - Primary
SLOVAK REPUBLIC	TQ1-06AA-AE	D	Stem of the question changed: Which majors did you finish during your university education?
SLOVENIA	TQ1-06AA	D	Primary education
SWEDEN	TQ1-06AA	D	Compulsory school teacher (early school years)
SWEDEN	TQ1-06AB	D	Later school years in compulsory school, upper secondary school
TUNISIA	TQ1-06AA	D	Stem of the question changed: During your university studies, what was your major or main area(s) of study? Education in basic school
TUNISIA	TQ1-06AB-AE	D	Stem of the question changed: During your university studies, what was your major or main area(s) of study?
UKRAINE	TQ1-06AA	D	Stem of the question changed: During your higher education (college), what was your main specialization (preparation course)? Teacher of elementary school
UKRAINE	TQ1-06AB	X	Option not administered or data not available
UKRAINE	TQ1-06AC-AD	D	Stem of the question changed: During your higher education (college), what was your main specialization (preparation course)?
UKRAINE	TQ1-06AE	D	Stem of the question changed: During your higher education (college), what was your main specialization (preparation course)? Teacher of subjects other than mathematics or science / Other

Section 2: Fourth Grade – Teacher Questionnaire

UNITED STATES

TQ1-06AA-AE

D

Stem of the question changed:
During your college or university education, what was your major or main area(s) of study?

National categories recoded to fit international categories:

1 = Major/Minor

2 = No

TQ1-06BA-BD**Question:**

If your major or main area of study was education, did you have a <specialization> in any of the following?

A: Mathematics

B: Science

C: Language/reading

D: Other subject

1 = Yes

2 = No

Variable Name(s): AT4MEDMA, AT4SEDSC, AT4GEDLR, AT4GEDOT

Country	Question / Option	Code	Documentation
AUSTRIA	TQ1-06BC	D	Reading / Reading support / Language / Language support
COLOMBIA	TQ1-06BA-BD	D	Stem of the question changed: If your major or main area of study was education, did you have an emphasis in any of the following?
EL SALVADOR	TQ1-06BB	D	Science (naturals)
EL SALVADOR	TQ1-06BC	D	Spanish / Languages
GERMANY	TQ1-06BA	D	Stem of the question changed: During your studies for being a teacher, did you acquire a qualification for one or more of the following subjects?
GERMANY	TQ1-06BB	D	Stem of the question changed: During your studies for being a teacher, did you acquire a qualification for one or more of the following subjects? Biology / Geography / Chemistry / Physical science / Science
GERMANY	TQ1-06BC	D	Stem of the question changed: During your studies for being a teacher, did you acquire a qualification for one or more of the following subjects? German
GERMANY	TQ1-06BD	D	Stem of the question changed: During your studies for being a teacher, did you acquire a qualification for one or more of the following subjects? Foreign language / Other subjects
ITALY	TQ1-06BA-BD	X	Question not administered or data not available
NETHERLANDS	TQ1-06BA-BD	D	Stem of the question changed: What was your specialization during teacher training?
NORWAY	TQ1-06BA-BD	X	Question not administered or data not available
SLOVAK REPUBLIC	TQ1-06BA-BD	D	Stem of the question changed: If you got a teacher certificate, did you have a specialization on the following fields?
SWEDEN	TQ1-06BA-BB	D	Stem of the question changed: If you have a teaching qualification, which is your field of study?
SWEDEN	TQ1-06BC	D	Stem of the question changed: If you have a teaching qualification, which is your field of study? Swedish
SWEDEN	TQ1-06BD	D	Stem of the question changed: If you have a teaching qualification, which is your field of study?

Section 2: Fourth Grade – Teacher Questionnaire

TQ1-11AA-AJ

Question:

How well prepared do you feel you are to teach the following mathematics topics?

- A: Whole numbers including place value and ordering
- B: Adding, subtracting, multiplying and/or dividing with whole numbers
- C: Fractions (parts of a whole or a collection, location on a number line)
- D: Fractions represented by words, numbers, or models
- E: Comparing and ordering fractions
- F: Adding and subtracting with fractions
- G: Adding and subtracting with decimals
- H: Number sentences (finding the missing number, modeling simple situations with number sentences)
- I: Number patterns (extending number patterns and finding missing terms)
- J: Relationships between given pairs of whole numbers
 - 1 = Not applicable
 - 2 = Very well prepared
 - 3 = Somewhat prepared
 - 4 = Not well prepared

Variable Name(s): AT4MTT01, AT4MTT02, AT4MTT03, AT4MTT04, AT4MTT05, AT4MTT06, AT4MTT07, AT4MTT08, AT4MTT09, AT4MTT10

Country	Question / Option	Code	Documentation
AUSTRIA	TQ1-11AA-AJ	D	Stem of the question changed: How well prepared (by education, further vocational training, and vocational experience) do you feel you are to teach the following mathematics topics? If one of these topics isn't in the curriculum or you didn't teach it because of any other reason (e.g., the topic was taught by another person), choose the option "not applicable".
HUNGARY	TQ1-11AA-AJ	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
KAZAKHSTAN	TQ1-11AA-AJ	X	Question not administered or data not available
RUSSIAN FEDERATION	TQ1-11AA-AJ	X	Question not administered or data not available
SLOVAK REPUBLIC	TQ1-11AA-AJ	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared

TQ1-11BA-BG**Question:**

How well prepared do you feel you are to teach the following mathematics topics?

- A: Comparing and drawing angles
 - B: Elementary properties of common geometric shapes
 - C: Relationships between two-dimensional and three-dimensional shapes
 - D: Finding areas and perimeters
 - E: Estimating areas and volumes
 - F: Using informal coordinate systems to locate points in a plane
 - G: Reflections and rotations
- 1 = Not applicable
 2 = Very well prepared
 3 = Somewhat prepared
 4 = Not well prepared

Variable Name(s): AT4MTT11, AT4MTT12, AT4MTT13, AT4MTT14, AT4MTT15, AT4MTT16, AT4MTT17

Country	Question / Option	Code	Documentation
AUSTRIA	TQ1-11BA-BG	D	Stem of the question changed: How well prepared (by education, further vocational training, and vocational experience) do you feel you are to teach the following mathematics topics? If one of these topics isn't in the curriculum or you didn't teach it because of any other reason (e.g., the topic was taught by another person), choose the option "not applicable".
HUNGARY	TQ1-11BA-BG	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
KAZAKHSTAN	TQ1-11BA-BG	X	Question not administered or data not available
RUSSIAN FEDERATION	TQ1-11BA-BG	X	Question not administered or data not available
SLOVAK REPUBLIC	TQ1-11BA-BG	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
SLOVENIA	TQ1-11BG	X	Option not administered or data not available

Section 2: Fourth Grade – Teacher Questionnaire

TQ1-11CA-CC

Question:

How well prepared do you feel you are to teach the following mathematics topics?

A: Reading data from tables, pictographs, bar graphs, or pie charts

B: Drawing conclusions from data displays

C: Displaying data using tables, pictographs, bar graphs, or pie charts

1 = Not applicable

2 = Very well prepared

3 = Somewhat prepared

4 = Not well prepared

Variable Name(s): AT4MTT18, AT4MTT19, AT4MTT20

Country	Question / Option	Code	Documentation
AUSTRIA	TQ1-11CA-CC	D	Stem of the question changed: How well prepared (by education, further vocational training, and vocational experience) do you feel you are to teach the following mathematics topics? If one of these topics isn't in the curriculum or you didn't teach it because of any other reason (e.g., the topic was taught by another person), choose the option "not applicable".
HUNGARY	TQ1-11CA-CC	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
KAZAKHSTAN	TQ1-11CA-CC	X	Question not administered or data not available
RUSSIAN FEDERATION	TQ1-11CA-CC	X	Question not administered or data not available
SLOVAK REPUBLIC	TQ1-11CA-CC	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared

TQ1-12A-B**Question:**

A: How many students are in the TIMSS class for mathematics?

B: How many students in Question 12A are in the <fourth-grade> ?

Variable Name(s): AT4MSTUD, AT4MSTDQ

Country	Question / Option	Code	Documentation
DUBAI, UAE	TQ1-12A-B	X	Question not administered or data not available
HUNGARY	TQ1-12B	D	Gang punched to teachers' responses to question 12A "How many students are in the TIMSS class for mathematics?"
ITALY	TQ1-12B	D	Gang punched to teachers' responses to question 12A "How many students are in the TIMSS class for mathematics?"
KAZAKHSTAN	TQ1-12B	X	Question not administered or data not available
NETHERLANDS	TQ1-12B	D	Gang punched to teachers' responses to question 12A "How many students are in the TIMSS class for mathematics?"
NORWAY	TQ1-12B	D	Gang punched to teachers' responses to question 12A "How many students are in the TIMSS class for mathematics?"
QATAR	TQ1-12B	X	Question not administered or data not available
RUSSIAN FEDERATION	TQ1-12B	X	Question not administered or data not available
SLOVENIA	TQ1-12B	D	Gang punched to teachers' responses to question 12A "How many students are in the TIMSS class for mathematics?"
SWEDEN	TQ1-12A	D	Stem of the question changed: How many students are in the TIMSS class for mathematics? (Write the number of students that are taught in the group, regardless of whether they participate or do not participate in TIMSS.)

Section 2: Fourth Grade – Teacher Questionnaire

TQ1-14A-B

Question:

A: Do you use a textbook(s) in teaching mathematics to the <fourth-grade> students in the TIMSS class?

1 = Yes

2 = No

B: How do you use a textbook(s) in teaching mathematics to the <fourth-grade> students in the TIMSS class?

1 = As the primary basis for my lessons

2 = As a supplementary resource

Variable Name(s): AT4MTBTC, AT4MTXBU

Country	Question / Option	Code	Documentation
ENGLAND	TQ1-14A	D	Stem of the question changed: Do you use textbooks or commercially produced schemes in teaching mathematics to the Year 5 children in the TIMSS class?
ENGLAND	TQ1-14B	D	Stem of the question changed: How do you use textbooks or commercially produced schemes in teaching mathematics to the Year 5 children in the TIMSS class?
SCOTLAND	TQ1-14A	D	Stem of the question changed: Do you use textbooks or commercially produced schemes in teaching mathematics to the P5 pupils in the TIMSS class?
SCOTLAND	TQ1-14B	D	Stem of the question changed: How do you use textbooks or commercially produced schemes in teaching mathematics to the P5 pupils in the TIMSS class?

TQ1-15A-H

Question:

In a typical week of mathematics lessons for the <fourth-grade> students in the TIMSS class, what percentage of time do students spend on each of the following activities?

A: Reviewing homework

B: Listening to lecture-style presentations

C: Working problems with your guidance

D: Working problems on their own without your guidance

E: Listening to you re-teach and clarify content/procedures

F: Taking tests or quizzes

G: Participating in classroom management tasks not related to the lesson's content/purpose (e.g., interruptions and keeping order)

H: Other student activities

Variable Name(s): AT4MPTRH, AT4MPTLS, AT4MPTYG, AT4MPTOO, AT4MPTRT, AT4MPTTQ, AT4MPTCM, AT4MPTOA

Country	Question / Option	Code	Documentation
HUNGARY	TQ1-15F	D	Taking tests or oral questioning

TQ1-20A-I**Question:**

In teaching mathematics to the <fourth-grade> students in the TIMSS class, how often do you usually ask them to do the following?

A: Practice adding, subtracting, multiplying, and dividing without using a calculator

B: Work on fractions and decimals

C: Measure things in the classroom and around the school

D: Make tables, charts, or graphs

E: Learn about shapes such as circles, triangles, rectangles, and cubes

F: Write equations for word problems

G: Explain their answers

H: Relate what they are learning in mathematics to their daily life

I: Memorize formulas and procedures

1 = Every or almost every lesson

2 = About half the lessons

3 = Some lessons

4 = Never

Variable Name(s): AT4MASPC, AT4MASWF, AT4MASMS, AT4MASMG, AT4MASLC, AT4MASWP, AT4MASEA, AT4MASDL, AT4MASMF

Country	Question / Option	Code	Documentation
ENGLAND	TQ1-20F	D	Write number sentences for word problems

TQ1-21A-D**Question:**

By the end of this school year, approximately what percentage of teaching time will you have spent during this school year on each of the following mathematics content areas for the <fourth-grade> students in the TIMSS class?

A: Number (includes computation with whole numbers, fractions, decimals and number patterns)

B: Geometric Shapes and Measures (includes two- and three-dimensional shapes, length, area and volume)

C: Data Display (includes reading, making, and interpreting tables and graphs)

D: Other, please specify:

Variable Name(s): AT4MTTNU, AT4MTTGM, AT4MTTDD, AT4MCOTH

Country	Question / Option	Code	Documentation
KAZAKHSTAN	TQ1-21A-D	X	Question not administered or data not available
RUSSIAN FEDERATION	TQ1-21A-D	X	Question not administered or data not available
SLOVAK REPUBLIC	TQ1-21B	D	Geometry (includes two- and three-dimensional shapes, length, area, and volume)

Section 2: Fourth Grade – Teacher Questionnaire

TQ1-22AA-AS

Question:

The following list includes the main topics addressed by the TIMSS mathematics test. Choose the response that best describes when the <fourth-grade> students in the TIMSS class have been taught each topic. If a topic was taught half this year but not yet completed, please choose “Mostly taught this year.” If a topic is not in the curriculum, please choose “Not yet taught or just introduced.”

- A: Representing whole numbers using words, diagrams, or symbols
- B: Whole numbers including place value and ordering
- C: Computation with whole numbers
- D: Multiples and factors of numbers
- E: Estimation with whole numbers
- F: Problems involving proportions
- G: Fractions (parts of a whole or a collection, location on a number line)
- H: Equivalent fractions
- I: Comparing and ordering simple fractions
- J: Fractions represented by words, numbers, or models
- K: Adding and subtracting simple fractions
- L: Decimal place value including writing decimals using words and numbers
- M: Adding and subtracting with decimals
- N: Finding the missing number in a number sentence (e.g., if $17 + \underline{\quad} = 29$, what number would go in the blank to make the number sentence true?)
- O: Model simple situations involving unknowns with expressions or number sentences
- P: Extending patterns and finding missing terms in them
- Q: Describing relationships between adjacent terms in a sequence
- R: Generating pairs of numbers following a given rule (e.g., multiply the first number by 3 and add 2 to get the second number)
- S: Finding a rule for a relationship given some pairs of numbers which satisfy the relationship
 - 1 = Mostly taught before this year
 - 2 = Mostly taught this year
 - 3 = Not yet taught or just introduced

Variable Name(s): AT4MTI01, AT4MTI02, AT4MTI03, AT4MTI04, AT4MTI05, AT4MTI06, AT4MTI07, AT4MTI08, AT4MTI09, AT4MTI10, AT4MTI11, AT4MTI12, AT4MTI13, AT4MTI14, AT4MTI15, AT4MTI16, AT4MTI17, AT4MTI18, AT4MTI19

Country	Question / Option	Code	Documentation
KAZAKHSTAN	TQ1-22AA-AS	X	Question not administered or data not available
RUSSIAN FEDERATION	TQ1-22AA-AS	X	Question not administered or data not available

TQ1-22BA-BK**Question:**

The following list includes the main topics addressed by the TIMSS mathematics test. Choose the response that best describes when the <fourth-grade> students in the TIMSS class have been taught each topic. If a topic was taught half this year but not yet completed, please choose "Mostly taught this year." If a topic is not in the curriculum, please choose "Not yet taught or just introduced."

A: Measuring and estimating lengths

B: Parallel and perpendicular lines

C: Comparing angles by size and drawing angles (e.g., a right angle, angles larger or smaller than a right angle)

D: Elementary properties of common geometric shapes

E: Recognizing relationships between three-dimensional shapes and their two-dimensional representations

F: Calculating areas and perimeters of squares and rectangles of given dimensions

G: Finding areas by covering with a given shape or counting squares

H: Estimating areas and volumes

I: Using informal coordinate systems to locate points in a plane

J: Figures with line symmetry

K: Reflections and rotations

1 = Mostly taught before this year

2 = Mostly taught this year

3 = Not yet taught or just introduced

Variable Name(s): AT4MTI20, AT4MTI21, AT4MTI22, AT4MTI23, AT4MTI24, AT4MTI25, AT4MTI26, AT4MTI27, AT4MTI28, AT4MTI29, AT4MTI30

Country	Question / Option	Code	Documentation
KAZAKHSTAN	TQ1-22BA-BK	X	Question not administered or data not available
RUSSIAN FEDERATION	TQ1-22BA-BK	X	Question not administered or data not available
SLOVAK REPUBLIC	TQ1-22BA-BK	D	Stem of the question changed: Geometry

TQ1-22CA-CE**Question:**

The following list includes the main topics addressed by the TIMSS mathematics test. Choose the response that best describes when the <fourth-grade> students in the TIMSS class have been taught each topic. If a topic was taught half this year but not yet completed, please choose "Mostly taught this year." If a topic is not in the curriculum, please choose "Not yet taught or just introduced."

A: Reading data from tables, pictographs, bar graphs, or pie charts

B: Comparing information from related data sets, (e.g., given graphs showing the favorite flavors of ice cream in different classes, identify the class with chocolate as the most popular flavor)

C: Using information from data displays to answer questions that go beyond directly reading the data displayed (e.g., by performing computations, drawing conclusions and making predictions)

D: Comparing and matching different representations of the same data

E: Organizing and displaying data using tables, pictographs, bar graphs, or pie charts

1 = Mostly taught before this year

2 = Mostly taught this year

3 = Not yet taught or just introduced

Variable Name(s): AT4MTI31, AT4MTI32, AT4MTI33, AT4MTI34, AT4MTI35

Country	Question / Option	Code	Documentation
KAZAKHSTAN	TQ1-22CA-CE	X	Question not administered or data not available
RUSSIAN FEDERATION	TQ1-22CA-CE	X	Question not administered or data not available

Section 2: Fourth Grade – Teacher Questionnaire

TQ1-28AA-AF

Question:

How well prepared do you feel to teach the following science topics?

A: Major body structures and their functions in humans and other organisms (plants and animals)

B: Reproduction and development in plants and animals (passing on of general characteristics; life cycles of familiar organisms)

C: Physical features, behavior, and survival of organisms living in different environments

D: Relationships in a living community (e.g., simple food chains, predator-prey relationships)

E: Changes in environments (effects of human activity, pollution and its prevention)

F: Human health (e.g., transmission/prevention of communicable diseases, signs of health/illness, diet, exercise)

1 = Not applicable

2 = Very well prepared

3 = Somewhat prepared

4 = Not well prepared

Variable Name(s): AT4SPT01, AT4SPT02, AT4SPT03, AT4SPT04, AT4SPT05, AT4SPT06

Country	Question / Option	Code	Documentation
AUSTRIA	TQ1-28AA-AF	D	Stem of the question changed: How well prepared (by education, further vocational training, and vocational experience) do you feel you are to teach the following mathematics topics? If one of these topics isn't in the curriculum or you didn't teach it because of any other reason (e.g., the topic was taught by another person), choose the option "not applicable".
HUNGARY	TQ1-28AA-AF	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
KAZAKHSTAN	TQ1-28AA-AF	X	Question not administered or data not available
RUSSIAN FEDERATION	TQ1-28AA-AF	X	Question not administered or data not available
SLOVAK REPUBLIC	TQ1-28AA-AF	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared

TQ1-28BA-BI**Question:**

How well prepared do you feel to teach the following science topics?

A: Classification of objects/materials based on physical properties (e.g., mass, shape, volume, color, hardness, texture, heat/electrical conductivity, magnetic attraction)

B: Forming and separating mixtures

C: States of matter (solids, liquids, gases) and differences in their physical properties (shape, volume), including changes in state of matter by heating and cooling (melting, freezing, boiling, evaporating, condensation)

D: Familiar changes in materials (e.g., decaying of animal/plant matter, burning, rusting, cooking)

E: Common energy sources/forms and their practical uses (e.g., wind, sun, electricity, burning fuel, moving water, food)

F: Light (e.g. sources and behavior)

G: Electrical circuits

H: Properties of magnets

I: Forces that cause objects to move (e.g., gravity, push/pull forces)

1 = Not applicable

2 = Very well prepared

3 = Somewhat prepared

4 = Not well prepared

Variable Name(s): AT4SPT07, AT4SPT08, AT4SPT09, AT4SPT10, AT4SPT11, AT4SPT12, AT4SPT13, AT4SPT14, AT4SPT15

Country	Question / Option	Code	Documentation
AUSTRIA	TQ1-28BA-BI	D	Stem of the question changed: How well prepared (by education, further vocational training, and vocational experience) do you feel you are to teach the following mathematics topics? If one of these topics isn't in the curriculum or you didn't teach it because of any other reason (e.g., the topic was taught by another person), choose the option "not applicable".
HUNGARY	TQ1-28BA-BI	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
KAZAKHSTAN	TQ1-28BA-BI	X	Question not administered or data not available
RUSSIAN FEDERATION	TQ1-28BA-BI	X	Question not administered or data not available
SLOVAK REPUBLIC	TQ1-28BA-BI	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared

Section 2: Fourth Grade – Teacher Questionnaire

TQ1-28CA-CG

Question:

How well prepared do you feel to teach the following science topics?
 A: Features of Earth’s landscape (e.g., mountains, plains, rivers, deserts)
 B: Water on Earth (location, types, and movement)
 C: Air (composition, proof of its existence, uses, and importance for supporting life)
 D: Common features of Earth’s landscape (e.g., mountains, plains, rivers, deserts) and relationship to human use (e.g., farming, irrigation, land development)
 E: Weather conditions from day to day or over the seasons
 F: Fossils of animals and plants (age, formation)
 G: Earth’s solar system (planets, sun, moon)
 1 = Not applicable
 2 = Very well prepared
 3 = Somewhat prepared
 4 = Not well prepared

Variable Name(s): AT4SPT16, AT4SPT17, AT4SPT18, AT4SPT19, AT4SPT20, AT4SPT21, AT4SPT22

Country	Question / Option	Code	Documentation
AUSTRIA	TQ1-28CA-CG	D	Stem of the question changed: How well prepared (by education, further vocational training, and vocational experience) do you feel you are to teach the following mathematics topics? If one of these topics isn't in the curriculum or you didn't teach it because of any other reason (e.g., the topic was taught by another person), choose the option "not applicable".
HUNGARY	TQ1-28CA-CG	D	Environment Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
KAZAKHSTAN	TQ1-28CA-CG	X	Question not administered or data not available
RUSSIAN FEDERATION	TQ1-28CA-CG	X	Question not administered or data not available
SLOVAK REPUBLIC	TQ1-28CA-CG	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared

TQ1-29A-B**Question:**

- A: How many students are in the TIMSS class for science?
 B: How many students in Question 29A are in the <fourth-grade> ?

Variable Name(s): AT4SSTUD, AT4SSTDQ

Country	Question / Option	Code	Documentation
DUBAI, UAE	TQ1-29A-B	X	Question not administered or data not available
HUNGARY	TQ1-29B	D	Gang punched to teachers' responses to question 29A "How many students are in the TIMSS class for science?"
ITALY	TQ1-29A	D	Gang punched to teachers' responses to question 12A "How many students are in the TIMSS class for mathematics?"
ITALY	TQ1-29B	D	Gang punched to teachers' responses to question 12A "How many students are in the TIMSS class for mathematics?"
KAZAKHSTAN	TQ1-29A	D	Gang punched to teachers' responses to question 12A "How many students are in the TIMSS class for mathematics?"
KAZAKHSTAN	TQ1-29B	X	Question not administered or data not available
NETHERLANDS	TQ1-29A	D	Gang punched to teachers' responses to question 12A "How many students are in the TIMSS class for mathematics?"
NETHERLANDS	TQ1-29B	D	Gang punched to teachers' responses to question 12A "How many students are in the TIMSS class for mathematics?"
NORWAY	TQ1-29A	D	Gang punched to teachers' responses to question 12A "How many students are in the TIMSS class for mathematics?"
NORWAY	TQ1-29B	D	Gang punched to teachers' responses to question 12A "How many students are in the TIMSS class for mathematics?"
QATAR	TQ1-29B	X	Question not administered or data not available
RUSSIAN FEDERATION	TQ1-29A	D	Gang punched to teachers' responses to question 12A "How many students are in the TIMSS class for mathematics?"
RUSSIAN FEDERATION	TQ1-29B	X	Question not administered or data not available
SLOVENIA	TQ1-29A	D	Gang punched to teachers' responses to question 12A "How many students are in the TIMSS class for mathematics?"
SLOVENIA	TQ1-29B	D	Gang punched to teachers' responses to question 12A "How many students are in the TIMSS class for mathematics?"
SWEDEN	TQ1-29A	D	Stem of the question changed: How many students are in the TIMSS class for science? (Write the number of students that are taught in the group, regardless of whether they participate or do not participate in TIMSS.)

Section 2: Fourth Grade – Teacher Questionnaire

TQ1-30

Question:

Is science taught mainly as a separate subject (i.e., not integrated with other subjects) to the <fourth-grade> students in the TIMSS class?

- 1 = Yes
- 2 = No

Variable Name(s): AT4SSBJ

Country	Question / Option	Code	Documentation
NORWAY	TQ1-30	D	Gang punched to "No"

TQ1-34A-D

Question:

By the end of this school year, approximately what percentage of teaching time will you have spent during this school year on each of the following science content areas for the <fourthgrade> students in the TIMSS class?

- A: Life science (includes environmental issues)
- B: Physical science (includes topics in physics and chemistry)
- C: Earth science (includes Earth and the solar system)
- D: Other, please specify:

Variable Name(s): AT4SPTLS, AT4SPTPS, AT4SPTES, AT4SCOTH

Country	Question / Option	Code	Documentation
SLOVAK REPUBLIC	TQ1-34B	D	Physical science (includes topics about technology)

TQ1-35A-B

Question:

A: Do you use a textbook(s) in teaching science to the <fourth-grade> students in the TIMSS class?

- 1 = Yes
- 2 = No

B: How do you use a textbook(s) in teaching science to the <fourth-grade> students in the TIMSS class?

- 1 = As the primary basis for my lessons
- 2 = As a supplementary resource

Variable Name(s): AT4STBTC, AT4STXBU

Country	Question / Option	Code	Documentation
ENGLAND	TQ1-35A	D	Stem of the question changed: Do you use textbooks or commercially produced schemes in teaching science to the Year 5 children in the TIMSS class?
ENGLAND	TQ1-35B	D	Stem of the question changed: How do you use textbooks or commercially produced schemes in teaching science to the Year 5 children in the TIMSS class?

TQ1-36AA-AK**Question:**

The following list includes the main topics addressed by the TIMSS science test. Choose the response that best describes when the <fourth-grade> students in the TIMSS class have been taught each topic. If a topic was taught half this year but not yet completed, please choose "Mostly taught this year." If a topic is not in the curriculum, please choose "Not yet taught or just introduced."

- A: Types, characteristics, and classification of living things
- B: Major body structures and their function in humans and other organisms (plants and animals)
- C: General steps in the life cycle of familiar organisms (e.g., humans, butterflies, frogs, plants)
- D: Plant and animal reproduction (passing on of general characteristics)
- E: Physical features, behavior, and survival of plants and animals in different environments
- F: Bodily actions in response to outside conditions (e.g., heat, cold, danger) and activities (e.g., exercise)
- G: Energy requirements of plants and animals (energy from the sun to make food and to provide energy for growth and repair)
- H: Relationships in a living community (e.g., simple food chains using common plants and animals and predator-prey relationships)
- I: Changes in environments (effects of human activity, pollution and its prevention)
- J: Ways that common communicable diseases (e.g., colds, influenza) are transmitted; signs, prevention, and treatment of illness
- K: Ways of maintaining good health, including diet and exercise
 - 1 = Mostly taught before this year
 - 2 = Mostly taught this year
 - 3 = Not yet taught or just introduced

Variable Name(s): AT4STI01, AT4STI02, AT4STI03, AT4STI04, AT4STI05, AT4STI06, AT4STI07, AT4STI08, AT4STI09, AT4STI10, AT4STI11

Country	Question / Option	Code	Documentation
KAZAKHSTAN	TQ1-36AA-AK	X	Question not administered or data not available
RUSSIAN FEDERATION	TQ1-36AA-AK	X	Question not administered or data not available

Section 2: Fourth Grade – Teacher Questionnaire

TQ1-36BA-BN

Question:

The following list includes the main topics addressed by the TIMSS science test. Choose the response that best describes when the <fourth-grade> students in the TIMSS class have been taught each topic. If a topic was taught half this year but not yet completed, please choose “Mostly taught this year.” If a topic is not in the curriculum, please choose “Not yet taught or just introduced.”

- A: Classification of objects and materials based on physical properties
- B: Properties and uses of metals
- C: Forming and separating mixtures
- D: Properties and uses of water
- E: States of matter (solids, liquids, and gases) and differences in their physical properties in terms of shape and volume
- F: Changes in state of matter by heating and cooling (melting, freezing, boiling, evaporation, condensation)
- G: Familiar changes in materials (e.g., decaying of animal/plant matter, burning, rusting, cooking)
- H: Common energy sources/forms and their practical uses (e.g., wind, sun, electricity, burning fuel, water wheel, food)
- I: Heat flow and temperature
- J: Common sources of light and related phenomena (e.g., formation of rainbows and shadows, visibility of objects, mirrors, colors)
- K: Production of sound by vibrations
- L: Electrical circuits
- M: Magnets (north and south poles, magnetic attraction, and repulsion)
- N: Forces that cause objects to move (e.g., gravity, push/pull forces)
 - 1 = Mostly taught before this year
 - 2 = Mostly taught this year
 - 3 = Not yet taught or just introduced

Variable Name(s): AT4STI12, AT4STI13, AT4STI14, AT4STI15, AT4STI16, AT4STI17, AT4STI18, AT4STI19, AT4STI20, AT4STI21, AT4STI22, AT4STI23, AT4STI24, AT4STI25

Country	Question / Option	Code	Documentation
KAZAKHSTAN	TQ1-36BA-BN	X	Question not administered or data not available
RUSSIAN FEDERATION	TQ1-36BA-BN	X	Question not administered or data not available

TQ1-36CA-CJ**Question:**

The following list includes the main topics addressed by the TIMSS science test. Choose the response that best describes when the <fourth-grade> students in the TIMSS class have been taught each topic. If a topic was taught half this year but not yet completed, please choose "Mostly taught this year." If a topic is not in the curriculum, please choose "Not yet taught or just introduced."

A: Rocks, minerals, sand, and soil

B: Water on Earth (location, types, and movement)

C: Air (composition, proof of its existence, uses, and importance for supporting life)

D: Common features of the Earth's landscape (e.g., mountains, plains, rivers, deserts) and relationship to human use (e.g., farming, irrigation, land development)

E: Use and conservation of Earth's natural resources

F: Earth's water cycle (water flowing in rivers from mountains to sea, cloud formation and precipitation)

G: Weather conditions from day to day or over the seasons

H: Fossils of animals and plants (age, formation)

I: Earth's solar system (planets, sun, moon)

J: Earth's rotation on its axis (e.g., day and night, appearance of shadows)

1 = Mostly taught before this year

2 = Mostly taught this year

3 = Not yet taught or just introduced

Variable Name(s): AT4STI26, AT4STI27, AT4STI28, AT4STI29, AT4STI30, AT4STI31, AT4STI32, AT4STI33, AT4STI34, AT4STI35

Country	Question / Option	Code	Documentation
KAZAKHSTAN	TQ1-36CA-CJ	X	Question not administered or data not available
RUSSIAN FEDERATION	TQ1-36CA-CJ	X	Question not administered or data not available

Section 2: Fourth Grade – Teacher Questionnaire

ITCOURSE

Question:

TYPE OF COURSE

Variable Name(s): ITCOURSE

Country	Question / Option	Code	Documentation
ALBERTA, CANADA	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
ALGERIA	ITCOURSE	D	7 = Mathematics and Science
ARMENIA	ITCOURSE	D	7 = Mathematics and Science
AUSTRALIA	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
AUSTRIA	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
BRITISH COLUMBIA, CANADA	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
CHINESE TAIPEI	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
COLOMBIA	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
CZECH REPUBLIC	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
DENMARK	ITCOURSE	D	1 = Mathematics 6 = Science (Nature / Technology) 7 = Mathematics and Science (Nature / Technology)
DUBAI, UAE	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
EL SALVADOR	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
ENGLAND	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
GEORGIA	ITCOURSE	D	1 = Mathematics 6 = Science
GERMANY	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
HONG KONG SAR	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
HUNGARY	ITCOURSE	D	7 = Mathematics and Science
IRAN, ISLAMIC REP. OF	ITCOURSE	D	7 = Mathematics and Science
ITALY	ITCOURSE	D	7 = Mathematics and Science
JAPAN	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science

Section 2: Fourth Grade – Teacher Questionnaire

KAZAKHSTAN	ITCOURSE	D	7 = Mathematics and Science
KUWAIT	ITCOURSE	D	1 = Mathematics 6 = Science
LATVIA	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
LITHUANIA	ITCOURSE	D	7 = Mathematics and Science
MASSACHUSETTS, US	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
MINNESOTA, US	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
MOROCCO	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
NETHERLANDS	ITCOURSE	D	7 = Mathematics and Science
NEW ZEALAND	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
NORWAY	ITCOURSE	D	7 = Mathematics and Science
ONTARIO, CANADA	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
QATAR	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
QUEBEC, CANADA	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
RUSSIAN FEDERATION	ITCOURSE	D	7 = Mathematics and Science
SCOTLAND	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
SINGAPORE	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
SLOVAK REPUBLIC	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
SLOVENIA	ITCOURSE	D	7 = Mathematics and Science
SWEDEN	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
TUNISIA	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
UKRAINE	ITCOURSE	D	7 = Mathematics and Science
UNITED STATES	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
YEMEN	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science

**Fourth Grade
School Questionnaire**

Section 3

SCQ1-01A-B**Question:**

- A: What is the total school enrollment (number of students) in all grades?
 B: What is the enrollment in the <fourth-grade>?

Variable Name(s): AC4GTENR, AC4GEENR

Country	Question / Option	Code	Documentation
ENGLAND	SCQ1-01A	D	Stem of the question changed: What is the total number of children on the school roll? (Include children on roll but under statutory school age.)
SCOTLAND	SCQ1-01A	D	Stem of the question changed: What is the total number of pupils on the school roll? (Include pupils on roll but under statutory school age.)

SCQ1-02**Question:**

- How many people live in the city, town, or area where your school is located?
 1 = More than 500,000 people
 2 = 100,001 to 500,000 people
 3 = 50,001 to 100,000 people
 4 = 15,001 to 50,000 people
 5 = 3,001 to 15,000 people
 6 = 3,000 people or fewer

Variable Name(s): AC4GCOMU

Country	Question / Option	Code	Documentation
AUSTRALIA	SCQ1-02	D	National options recoded to fit international categories: 1 = More than 500,000 people 2 = 100,001 to 500,000 people 3 = 50,001 to 100,000 people 4 = 15,001 to 50,000 people 5 = 3,001 to 15,000 people 6 = 1,001 to 3,000 people/Fewer than 1,000 people
SINGAPORE	SCQ1-02	D	Gang punched to "More than 500,000 people"

SCQ1-03A-B**Question:**

- Approximately what percentage of students in your school have the following backgrounds?
 A: Come from economically disadvantaged homes
 B: Come from economically affluent homes
 1 = 0 to 10%
 2 = 11 to 25%
 3 = 26 to 50%
 4 = More than 50%

Variable Name(s): AC4GSBED, AC4GSBEA

Country	Question / Option	Code	Documentation
NORWAY	SCQ1-03A-B	X	Question not administered or data not available

Section 3: Fourth Grade – School Questionnaire

SCQ1-05A

Question:

For the <fourth-grade> students in your school:
How many days per year is your school open for instruction?

Variable Name(s): AC4GDYSO

Country	Question / Option	Code	Documentation
AUSTRIA	SCQ1-05A	D	Gang punched to "180 days"
NEW ZEALAND	SCQ1-05A	D	Stem of the question changed: How many days per year is your school open for instruction (e.g., 394 half days equals 197 instructional days)?
NORWAY	SCQ1-05A	D	Gang punched to "190"

SCQ1-05BA-BB

Question:

For the <fourth-grade> students in your school:
What is the total instructional time, excluding breaks, in a typical day?

Variable Name(s): AC4GHTIT, AC4GMTIT

Country	Question / Option	Code	Documentation
NORWAY	SCQ1-05BA	D	Gang punched to "4 hours"
NORWAY	SCQ1-05BB	D	Gang punched to "30 minutes"

SCQ1-05C**Question:**

For the <fourth-grade> students in your school:
In one calendar week, how many days is the school open for instruction?

1 = 6 days

2 = 5 1/2 days

3 = 5 days

4 = 4 1/2 days

5 = 4 days

6 = Other

Variable Name(s): AC4GDSOI

Country	Question / Option	Code	Documentation
AUSTRIA	SCQ1-05C	D	National options recoded to fit international categories: 1 = 6 days 2 = Option not administered or data not available 3 = 5 days 4 = Option not administered or data not available 5 = 4 days 6 = Other
KAZAKHSTAN	SCQ1-05C	D	National options recoded to fit international categories: 1 = 6 days 2 = Option not administered or data not available 3 = 5 days 4 = Option not administered or data not available 5 = 4 days 6 = Other
NETHERLANDS	SCQ1-05C	D	National options recoded to fit international categories: 1 = Option not administered or data not available 2 = Option not administered or data not available 3 = 5 days 4 = 4 1/2 days 5 = 4 days 6 = Other
NORWAY	SCQ1-05C	D	Gang punched to "5 days"
RUSSIAN FEDERATION	SCQ1-05C	D	National options recoded to fit international categories: 1 = 6 days 2 = Option not administered or data not available 3 = 5 days 4 = Option not administered or data not available 5 = 4 days 6 = Other
SLOVENIA	SCQ1-05C	D	Gang punched to "5 days"

Section 3: Fourth Grade – School Questionnaire

SCQ1-06A-F

Question:

By the end of this school year, approximately what percentage of time in your role as principal will you have spent on these activities?

- A: Administrative duties (e.g., hiring, budgeting, scheduling, meetings)
- B: Instructional leadership (e.g., developing curriculum and pedagogy)
- C: Supervising and evaluating teachers and other staff
- D: Teaching
- E: Public relations and fundraising
- F: Other

Variable Name(s): AC4GAPAD, AC4GAPIL, AC4GAPST, AC4GAPTE, AC4GAPPR, AC4GAPOT

Country	Question / Option	Code	Documentation
ENGLAND	SCQ1-06B	D	Developing curriculum and approaches to teaching and learning
ENGLAND	SCQ1-06E	D	Parent and community relations and fundraising
SCOTLAND	SCQ1-06B	D	Developing curriculum and approaches to teaching and learning
SCOTLAND	SCQ1-06E	D	Parent and community relations and fundraising

SCQ1-07A-E

Question:

Does your school ask parents to do the following?

- A: Attend special events (e.g., science fair, concert, sporting events)
 - B: Raise funds for the school
 - C: Volunteer for school projects, programs, and trips
 - D: Ensure that their child completes his/her homework
 - E: Serve on school committees (e.g., select school personnel, review school finances)
- 1 = Yes
2 = No

Variable Name(s): AC4GAPSE, AC4GAPRF, AC4GAPVO, AC4GAPCH, AC4GAPSC

Country	Question / Option	Code	Documentation
AUSTRALIA	SCQ1-07E	D	Serve on school committees (e.g., school council/board, review school finances)
GERMANY	SCQ1-07E	D	Serve on school committees (e.g., association for the benefit of the school, school conference)
SLOVENIA	SCQ1-07A-E	D	Stem of the question changed: Does your school ask parents of grade 4 students to do the following?

SCQ1-08A-H**Question:**

How would you characterize each of the following within your school?

- A: Teachers' job satisfaction
 - B: Teachers' understanding of the school's curricular goals
 - C: Teachers' degree of success in implementing the school's curriculum
 - D: Teachers' expectations for student achievement
 - E: Parental support for student achievement
 - F: Parental involvement in school activities
 - G: Students' regard for school property
 - H: Students' desire to do well in school
- 1 = Very high
2 = High
3 = Medium
4 = Low
5 = Very low

Variable Name(s): AC4GCHTS, AC4GCHTU, AC4GCHTC, AC4GCHES, AC4GCHPS, AC4GCHPI, AC4GCHSR, AC4GCHSD

Country	Question / Option	Code	Documentation
SLOVENIA	SCQ1-08A-H	D	Stem of the question changed: How would you characterize each of the following within grades 1 to 5 of your school?

SCQ1-09**Question:**

Are <fourth-grade> students in your school grouped by ability for their mathematics lessons?

- 1 = Yes
- 2 = No

Variable Name(s): AC4MGAMC

Country	Question / Option	Code	Documentation
NORWAY	SCQ1-09	X	Question not administered or data not available

SCQ1-10A-B**Question:**

Does your school do any of the following for students in the <fourth-grade>?

- A: Offer enrichment mathematics
 - B: Offer remedial mathematics
- 1 = Yes
2 = No

Variable Name(s): AC4MSOEM, AC4MSORM

Country	Question / Option	Code	Documentation
NORWAY	SCQ1-10A-B	X	Question not administered or data not available

Section 3: Fourth Grade – School Questionnaire

SCQ1-11

Question:

Are <fourth-grade> students in your school grouped by ability for their science lessons?
 1 = Yes
 2 = No

Variable Name(s): AC4SGASC

Country	Question / Option	Code	Documentation
NORWAY	SCQ1-11	X	Question not administered or data not available

SCQ1-12A-B

Question:

Does your school do any of the following for students in the <fourth-grade>?
 A: Offer enrichment science
 B: Offer remedial science
 1 = Yes
 2 = No

Variable Name(s): AC4SSOES, AC4SSORS

Country	Question / Option	Code	Documentation
NORWAY	SCQ1-12A-B	X	Question not administered or data not available

SCQ1-13A-E

Question:

In the past two years, what percentage of your <fourth-grade> teachers have been involved in professional development opportunities for mathematics and science targeted at the following?
 A: Supporting the implementation of the national or regional curriculum
 B: Designing or supporting the school's own improvement goals
 C: Improving content knowledge
 D: Improving teaching skills
 E: Using information and communication technology for educational purposes
 1 = None
 2 = 25% or fewer
 3 = 26 – 50%
 4 = 51 – 75%
 5 = 76 – 100%

Variable Name(s): AC4GPDIC, AC4GPDSG, AC4GPDIK, AC4GPDTS, AC4GPDUT

Country	Question / Option	Code	Documentation
AUSTRALIA	SCQ1-13A	D	Supporting the implementation of the state curriculum
NEW ZEALAND	SCQ1-13A	D	Supporting the implementation of the national curriculum

SCQ1-15**Question:**

How difficult was it to fill <fourth-grade> teaching vacancies for this school year?

- 1 = Were no vacancies
- 2 = Easy to fill vacancies
- 3 = Somewhat difficult
- 4 = Very difficult

Variable Name(s): AC4GFTVY

Country	Question / Option	Code	Documentation
AUSTRIA	SCQ1-15	X	Question not administered or data not available
GERMANY	SCQ1-15	X	Question not administered or data not available

SCQ1-16**Question:**

Does your school currently use any incentives (e.g., pay, housing, signing bonus, smaller classes) to recruit or retain <fourth-grade> teachers?

- 1 = Yes
- 2 = No

Variable Name(s): AC4GBONS

Country	Question / Option	Code	Documentation
AUSTRIA	SCQ1-16	X	Question not administered or data not available
GERMANY	SCQ1-16	X	Question not administered or data not available
ITALY	SCQ1-16	X	Question not administered or data not available

SCQ1-17AA-AM

Question:

How often does each of the following problem behaviors occur among <fourth-grade> students in your school?

- A: Arriving late at school
 - B: Absenteeism (i.e., unjustified absences)
 - C: Skipping class <hours/periods>
 - D: Violating dress code
 - E: Classroom disturbance
 - F: Cheating
 - G: Profanity
 - H: Vandalism
 - I: Theft
 - J: Intimidation or verbal abuse of other students
 - K: Physical injury to other students
 - L: Intimidation or verbal abuse of teachers or staff
 - M: Physical injury to teachers or staff
- 1 = Never
 2 = Rarely
 3 = Monthly
 4 = Weekly
 5 = Daily

Variable Name(s): AC4GFP01, AC4GFP02, AC4GFP03, AC4GFP04, AC4GFP05, AC4GFP06, AC4GFP07, AC4GFP08, AC4GFP09, AC4GFP10, AC4GFP11, AC4GFP12, AC4GFP13

Country	Question / Option	Code	Documentation
ARMENIA	SCQ1-17AC	D	Skipping class (hours/days)
EL SALVADOR	SCQ1-17AC	D	Skipping class (hours/days)
ENGLAND	SCQ1-17AC	D	Leaving the school during the day without authorization
GEORGIA	SCQ1-17AC	D	Skipping some lessons
GERMANY	SCQ1-17AC	D	Skipping some lessons
LITHUANIA	SCQ1-17AC	D	Unjustified skipping of particular lessons
SCOTLAND	SCQ1-17AC	D	Leaving the school during the day without authorization
SWEDEN	SCQ1-17AC	D	Skipping class lessons/shifts
TUNISIA	SCQ1-17AC	D	Skipping class in the teaching sessions

SCQ1-17BA-BM**Question:**

If the behavior occurs, how severe a problem does it present?

- A: Arriving late at school
 - B: Absenteeism (i.e., unjustified absences)
 - C: Skipping class <hours/periods>
 - D: Violating dress code
 - E: Classroom disturbance
 - F: Cheating
 - G: Profanity
 - H: Vandalism
 - I: Theft
 - J: Intimidation or verbal abuse of other students
 - K: Physical injury to other students
 - L: Intimidation or verbal abuse of teachers or staff
 - M: Physical injury to teachers or staff
- 1 = Not a problem
2 = Minor problem
3 = Serious problem

Variable Name(s): AC4GSP01, AC4GSP02, AC4GSP03, AC4GSP04, AC4GSP05, AC4GSP06, AC4GSP07, AC4GSP08, AC4GSP09, AC4GSP10, AC4GSP11, AC4GSP12, AC4GSP13

Country	Question / Option	Code	Documentation
ARMENIA	SCQ1-17BC	D	Skipping class (hours/days)
EL SALVADOR	SCQ1-17BC	D	Skipping class (hours/days)
ENGLAND	SCQ1-17BC	D	Leaving the school during the day without authorization
GEORGIA	SCQ1-17BC	D	Skipping some lessons
GERMANY	SCQ1-17BC	D	Skipping some lessons
LITHUANIA	SCQ1-17BC	D	Unjustified skipping of particular lessons
SCOTLAND	SCQ1-17BC	D	Leaving the school during the day without authorization
SWEDEN	SCQ1-17BC	D	Skipping class lessons/shifts
TUNISIA	SCQ1-17BC	D	Skipping class in the teaching sessions

Section 3: Fourth Grade – Student Questionnaire

SCQ1-18A-S

Question:

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

- A: Instructional materials (e.g., textbook)
 - B: Budget for supplies (e.g., paper, pencils)
 - C: School buildings and grounds
 - D: Heating/cooling and lighting systems
 - E: Instructional space (e.g., classrooms)
 - F: Special equipment for handicapped students
 - G: Computers for mathematics instruction
 - H: Computer software for mathematics instruction
 - I: Calculators for mathematics instruction
 - J: Library materials relevant to mathematics instruction
 - K: Audio-visual resources for mathematics instruction
 - L: Science laboratory equipment and materials
 - M: Computers for science instruction
 - N: Computer software for science instruction
 - O: Calculators for science instruction
 - P: Library materials relevant to science instruction
 - Q: Audio-visual resources for science instruction
 - R: Teachers
 - S: Computer support staff
- 1 = None
2 = A little
3 = Some
4 = A lot

Variable Name(s): AC4GST01, AC4GST02, AC4GST03, AC4GST04, AC4GST05, AC4GST06, AC4MST07, AC4MST08, AC4MST09, AC4MST10, AC4MST11, AC4SST12, AC4SST13, AC4SST14, AC4SST15, AC4SST16, AC4SST17, AC4GSH18, AC4GSH19

Country	Question / Option	Code	Documentation
KAZAKHSTAN	SCQ1-18A-S	D	National options recoded to fit international categories: 1 = Don't have these problems / None 2 = A little 3 = Some 4 = A lot
RUSSIAN FEDERATION	SCQ1-18A-S	D	National options recoded to fit international categories: 1 = Don't have these problems / None 2 = A little 3 = Some 4 = A lot

SCQ1-19A-B

Question:

- A: Does your school have a science laboratory?
 - B: Do teachers usually have assistance available when students are conducting science experiments?
- 1 = Yes
2 = No

Variable Name(s): AC4SSLAB, AC4STASE

Country	Question / Option	Code	Documentation
SLOVENIA	SCQ1-19A	D	Stem of the question changed: Does your school have a science laboratory for grade 4 students' use?

**Eighth Grade
Student Questionnaire**

Section 4

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

When were you born?

- | | |
|-----------|---------------|
| A: Year | B: Month |
| 1 = 1989 | 1 = January |
| 2 = 1990 | 2 = February |
| 3 = 1991 | 3 = March |
| 4 = 1992 | 4 = April |
| 5 = 1993 | 5 = May |
| 6 = 1994 | 6 = June |
| 7 = 1995 | 7 = July |
| 8 = 1996 | 8 = August |
| 9 = Other | 9 = September |
| | 10 = October |
| | 11 = November |
| | 12 = December |

Variable Name(s): BS4GBRTY, BS4GBRTM

Country	Question / Option	Code	Documentation
ITALY	SQ2-01A	D	National options recoded to fit international categories: 1 = 1989 2 = 1990 3 = 1991 4 = 1992 5 = 1993 6 = 1994 7 = 1995 8 = Option not administered or data not available 9 = Other / 1988

SQ2-04 / SQ2S-04**Question:**

About how many books are there in your home? (Do not count magazines, newspapers, or your school books.)

- 1 = None or very few (0-10 books)
- 2 = Enough to fill one shelf (11-25 books)
- 3 = Enough to fill one bookcase (26-100 books)
- 4 = Enough to fill two bookcases (101-200 books)
- 5 = Enough to fill three or more bookcases (more than 200 books)

Variable Name(s): BS4GBOOK

Country	Question / Option	Code	Documentation
RUSSIAN FEDERATION	SQ2S-04	D	National options recoded to fit international categories: 1 = None or very few (0-10 books) 2 = Enough to fill one shelf (11-25 books) 3 = Enough to fill one bookcase (26-100 books) 4 = Enough to fill two bookcases (101-200 books) 5 = Enough to fill three or more bookcases (more than 200 books)/There is a big library (more than 1,000 books)

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SQ2-05A-I / SQ2S-05A-I

Question:

Do you have any of these things at your home?

A: Calculator

B: Computer (do not include PlayStation®, GameCube®, Xbox®, or other TV/video game computers)

C: Study desk/table for your use

D: Dictionary

E: Internet connection

F: <country-specific>

G: <country-specific>

H: <country-specific>

I: <country-specific>

1 = Yes

2 = No

Variable Name(s): BS4GTH01, BS4GTH02, BS4GTH03, BS4GTH04, BS4GTH05, BS4GTH06, BS4GTH07, BS4GTH08, BS4GTH09

Country	Question / Option	Code	Documentation
ALGERIA	SQ2S-05F-I	X	Option not administered or data not available
ARMENIA	SQ2S-05F	D	Bible
ARMENIA	SQ2S-05G-I	X	Option not administered or data not available
AUSTRALIA	SQ2-05F	D	Your own room
AUSTRALIA	SQ2-05G	D	Game consoles (e.g., PlayStation®, GameCube®, Xbox®)
AUSTRALIA	SQ2-05H	D	Digital camera
AUSTRALIA	SQ2-05I	D	Portable MP3 player (e.g., iPod)
BAHRAIN	SQ2-05F	D	Your own private room
BAHRAIN	SQ2-05G	D	Geometric kit
BAHRAIN	SQ2-05H	D	Satellite channels
BAHRAIN	SQ2-05I	D	Educational videotapes
BASQUE COUNTRY, SPAIN	SQ2-05F	D	Specialized magazines
BASQUE COUNTRY, SPAIN	SQ2-05G	D	Daily newspaper
BASQUE COUNTRY, SPAIN	SQ2-05H	D	Digital television
BASQUE COUNTRY, SPAIN	SQ2-05I	D	Two cars
BOSNIA AND HERZEGOVINA	SQ2S-05F	D	Your own room
BOSNIA AND HERZEGOVINA	SQ2S-05G-I	X	Option not administered or data not available
BOTSWANA	SQ2-05F	D	Running tap water
BOTSWANA	SQ2-05G	D	Flushing toilet
BOTSWANA	SQ2-05H	D	Telephone
BOTSWANA	SQ2-05I	D	Radio
BRITISH COLUMBIA, CANADA	SQ2-05F-I	X	Option not administered or data not available
BULGARIA	SQ2S-05F	D	Car
BULGARIA	SQ2S-05G	D	Mobile phone
BULGARIA	SQ2S-05H	D	Digital camera
BULGARIA	SQ2S-05I	X	Option not administered or data not available
CHINESE TAIPEI	SQ2-05F	D	Compact disc, software, or videotape for learning math
CHINESE TAIPEI	SQ2-05G	D	Reference book for learning math
CHINESE TAIPEI	SQ2-05H	D	Compact disc, software, or videotape for learning science

Section 4: Eighth Grade – Student Questionnaire

CHINESE TAIPEI	SQ2-05I	D	Reference book for learning science
COLOMBIA	SQ2-05F-I	X	Option not administered or data not available
CYPRUS	SQ2S-05F	D	Washing machine
CYPRUS	SQ2S-05G	D	Air-conditioning unit
CYPRUS	SQ2S-05H	D	Central heating
CYPRUS	SQ2S-05I	D	Four or more bedrooms
CZECH REPUBLIC	SQ2S-05F	D	Your own Discman or MP3 player
CZECH REPUBLIC	SQ2S-05G	D	Digital camera (do not count a mobile phone with a camera)
CZECH REPUBLIC	SQ2S-05H	D	Camcorder
CZECH REPUBLIC	SQ2S-05I	D	Dishwasher
DUBAI, UAE	SQ2-05F	D	Your own room
DUBAI, UAE	SQ2-05G	D	A maid
DUBAI, UAE	SQ2-05H	D	A driver
DUBAI, UAE	SQ2-05I	X	Option not administered or data not available
EGYPT	SQ2-05F	D	TV
EGYPT	SQ2-05G	D	Satellite TV channels
EGYPT	SQ2-05H	D	Telephone
EGYPT	SQ2-05I	D	PlayStation® or similar games
EL SALVADOR	SQ2-05F	D	Telephone
EL SALVADOR	SQ2-05G	D	Sound system
EL SALVADOR	SQ2-05H	D	TV
EL SALVADOR	SQ2-05I	D	Washing machine
ENGLAND	SQ2-05F	D	Own bedroom
ENGLAND	SQ2-05G	D	Mobile phone
ENGLAND	SQ2-05H	D	Encyclopedia (book or CD-ROM)
ENGLAND	SQ2-05I	X	Option not administered or data not available
GEORGIA	SQ2S-05F	D	Photo camera
GEORGIA	SQ2S-05G	D	Your library
GEORGIA	SQ2S-05H	D	Science encyclopedia
GEORGIA	SQ2S-05I	D	Maps and atlases
GHANA	SQ2-05F	D	Car / Motorbike / Bicycle
GHANA	SQ2-05G	D	Electricity
GHANA	SQ2-05H	D	Tap water
GHANA	SQ2-05I	D	Chalk / Blackboard
HONG KONG SAR	SQ2-05F	D	Video CD, software, videotape for learning mathematics
HONG KONG SAR	SQ2-05G	D	Reference books for learning mathematics
HONG KONG SAR	SQ2-05H	D	Video CD, software, videotape for learning science
HONG KONG SAR	SQ2-05I	D	Reference books for learning science
HUNGARY	SQ2S-05F	D	Car
HUNGARY	SQ2S-05G	D	Your own books
HUNGARY	SQ2S-05H	D	Digital camera (not part of a phone)
HUNGARY	SQ2S-05I	X	Option not administered or data not available
INDONESIA	SQ2S-05F	D	Television
INDONESIA	SQ2S-05G	D	Computer

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INDONESIA	SQ2S-05H	D	Radio
INDONESIA	SQ2S-05I	D	Newspaper subscription
IRAN, ISLAMIC REP. OF	SQ2-05F	D	Car
IRAN, ISLAMIC REP. OF	SQ2-05G	D	Cell phone
IRAN, ISLAMIC REP. OF	SQ2-05H	D	Camera recorder
IRAN, ISLAMIC REP. OF	SQ2-05I	D	Dishwasher
ISRAEL	SQ2-05F	D	Two TVs, plasma screen
ISRAEL	SQ2-05G	D	Video camera
ISRAEL	SQ2-05H	D	Air conditioning
ISRAEL	SQ2-05I	D	Dishwasher
ITALY	SQ2-05F	D	Room of your very own
ITALY	SQ2-05G	D	Digital camera for your use
ITALY	SQ2-05H	D	Air conditioning
ITALY	SQ2-05I	D	Antitheft system
JAPAN	SQ2-05F	D	Books and puzzles on mathematics
JAPAN	SQ2-05G	D	Telescope
JAPAN	SQ2-05H	D	Terrestrial globe
JAPAN	SQ2-05I	D	Pictorial book of flora
JORDAN	SQ2-05F	D	Digital camera
JORDAN	SQ2-05G	D	Automatic washing machine
JORDAN	SQ2-05H	D	Central heating
JORDAN	SQ2-05I	D	Air conditioning
KOREA, REP. OF	SQ2-05F	D	Car
KOREA, REP. OF	SQ2-05G	D	Air conditioner
KOREA, REP. OF	SQ2-05H	D	DVD or VCR player
KOREA, REP. OF	SQ2-05I	D	Digital camera
KUWAIT	SQ2-05F-I	X	Option not administered or data not available
LEBANON	SQ2S-05F	D	Scientific encyclopedia
LEBANON	SQ2S-05G	D	Scientific magazines
LEBANON	SQ2S-05H-I	X	Option not administered or data not available
LITHUANIA	SQ2S-05F	D	Own room
LITHUANIA	SQ2S-05G	D	Car
LITHUANIA	SQ2S-05H	D	Garage
LITHUANIA	SQ2S-05I	D	Two TVs
MALAYSIA	SQ2-05F	D	Own room
MALAYSIA	SQ2-05G	D	Reference book
MALAYSIA	SQ2-05H	D	Video
MALAYSIA	SQ2-05I	X	Option not administered or data not available
MALTA	SQ2S-05B	X	Question not administered or data not available
MALTA	SQ2S-05E	X	Question not administered or data not available
MALTA	SQ2S-05F	D	Mobile phone
MALTA	SQ2S-05G	D	DVD Player/Recorder
MALTA	SQ2S-05H	D	Television in your room
MALTA	SQ2S-05I	D	Webcam
MASSACHUSETTS, US	SQ2-05F	D	Encyclopedia (book or CD-ROM)

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MASSACHUSETTS, US	SQ2-05G	D	PlayStation®, GameCube®, Xbox®, or other TV/video game system
MASSACHUSETTS, US	SQ2-05H	D	VHS or DVD player
MASSACHUSETTS, US	SQ2-05I	D	Three or more cars, small trucks, or sport utility vehicles
MINNESOTA, US	SQ2-05F	D	Encyclopedia (book or CD-ROM)
MINNESOTA, US	SQ2-05G	D	PlayStation®, GameCube®, Xbox®, or other TV/video game system
MINNESOTA, US	SQ2-05H	D	VHS or DVD player
MINNESOTA, US	SQ2-05I	D	Three or more cars, small trucks, or sport utility vehicles
MOROCCO	SQ2S-05F	D	Geometric tools
MOROCCO	SQ2S-05G	D	Games
MOROCCO	SQ2S-05H-I	X	Option not administered or data not available
NORWAY	SQ2-05F	D	Encyclopedia
NORWAY	SQ2-05G	D	Atlas
NORWAY	SQ2-05H	D	Globe
NORWAY	SQ2-05I	D	Binoculars
OMAN	SQ2-05F	D	Private room
OMAN	SQ2-05G	D	Mobile phone
OMAN	SQ2-05H	D	TV
OMAN	SQ2-05I	D	Musical instruments
ONTARIO, CANADA	SQ2-05F-I	X	Option not administered or data not available
PALESTINIAN NAT'L AUTH.	SQ2-05F	D	TV without satellite
PALESTINIAN NAT'L AUTH.	SQ2-05G	D	TV with satellite
PALESTINIAN NAT'L AUTH.	SQ2-05H	X	Option not administered or data not available.
PALESTINIAN NAT'L AUTH.	SQ2-05I	X	Option not administered or data not available.
QATAR	SQ2-05F	D	Private room
QATAR	SQ2-05G	D	Private maid
QATAR	SQ2-05H	D	Private car driver
QATAR	SQ2-05I	X	Option not administered or data not available
QUEBEC, CANADA	SQ2-05F-I	X	Option not administered or data not available
ROMANIA	SQ2S-05F	D	Own mobile phone
ROMANIA	SQ2S-05G	D	Car
ROMANIA	SQ2S-05H	D	Swimming pool
ROMANIA	SQ2S-05I	D	Gym
RUSSIAN FEDERATION	SQ2S-05F	D	Video camera
RUSSIAN FEDERATION	SQ2S-05G	D	Your own mobile phone
RUSSIAN FEDERATION	SQ2S-05H	D	Car
RUSSIAN FEDERATION	SQ2S-05I	D	Your own room
SAUDI ARABIA	SQ2-05F-I	X	Option not administered or data not available
SCOTLAND	SQ2-05F	D	Own bedroom
SCOTLAND	SQ2-05G	D	Mobile phone
SCOTLAND	SQ2-05H	D	Encyclopedia (book or CD-ROM)
SCOTLAND	SQ2-05I	X	Option not administered or data not available
SERBIA	SQ2S-05F	D	Cable/Satellite TV
SERBIA	SQ2S-05G	D	Encyclopedia

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SERBIA	SQ2S-05H	X	Option not administered or data not available
SERBIA	SQ2S-05I	X	Option not administered or data not available
SINGAPORE	SQ2-05F	D	Car
SINGAPORE	SQ2-05G	D	Domestic help (e.g., maid)
SINGAPORE	SQ2-05H	D	Mobile phone
SINGAPORE	SQ2-05I	D	Piano / Organ / Violin
SLOVENIA	SQ2S-05F	D	My own room
SLOVENIA	SQ2S-05G	D	My own computer
SLOVENIA	SQ2S-05H	D	More than one bathroom
SLOVENIA	SQ2S-05I	D	I go to outside school activities that parents pay for
SWEDEN	SQ2S-05F	D	Subscription to a journal on nature or technology
SWEDEN	SQ2S-05G	D	Compass
SWEDEN	SQ2S-05H	D	Bird, mushroom, or flora book to look up species
SWEDEN	SQ2S-05I	D	Binoculars
SYRIAN ARAB REPUBLIC	SQ2S-05F	D	Home library
SYRIAN ARAB REPUBLIC	SQ2S-05G	D	Musical instrument
SYRIAN ARAB REPUBLIC	SQ2S-05H	D	Your own room
SYRIAN ARAB REPUBLIC	SQ2S-05I	D	Exercise machine
THAILAND	SQ2-05F	D	Television
THAILAND	SQ2-05G	D	Radio
THAILAND	SQ2-05H	D	Video, VCD or DVD player
THAILAND	SQ2-05I	D	Fax machine
TUNISIA	SQ2-05F	D	Books of poetry
TUNISIA	SQ2-05G	D	Books of classic literature
TUNISIA	SQ2-05H	D	Satellite dish
TUNISIA	SQ2-05I	D	Video recorder or DVD
TURKEY	SQ2-05F	D	Dishwasher
TURKEY	SQ2-05G	D	Washing machine
TURKEY	SQ2-05H	D	Heating system with radiators
TURKEY	SQ2-05I	D	DVD / VCD Player
UKRAINE	SQ2S-05F	D	Your own cell phone
UKRAINE	SQ2S-05G	D	Two or more TV's
UKRAINE	SQ2S-05H	D	Video camera
UKRAINE	SQ2S-05I	D	Car
UNITED STATES	SQ2-05F	D	Encyclopedia (book or CD-ROM)
UNITED STATES	SQ2-05G	D	PlayStation®, GameCube®, Xbox®, or other TV/video game system
UNITED STATES	SQ2-05H	D	VHS or DVD player
UNITED STATES	SQ2-05I	D	Three or more cars, small trucks, or sport utility vehicles

SQ2-06A-B / SQ2S-06A-B**Question:**

A: What is the highest level of education completed by your mother (or stepmother or female guardian)?

B: What is the highest level of education completed by your father (or stepfather or male guardian)?

1 = Some <ISCED Level 1 or 2 > or did not go to school

2 = <ISCED 2>

3 = <ISCED 3>

4 = <ISCED 4>

5 = <ISCED 5B>

6 = <ISCED 5A, first degree>

7 = Beyond <ISCED 5A, first degree>

8 = I don't know

Variable Name(s): BS4GMFED, BS4GFMED

Country	Question / Option	Code	Documentation
ALGERIA	SQ2S-06A-B	D	Nationally defined options: 1 = Primary or intermediate level or has never been to school 2 = Intermediate level 3 = Secondary level 4 = Technician certificate 5 = High-level technician diploma / Applied higher education diploma / ITE 6 = Bachelor of Arts degree 7 = Beyond Bachelor of Arts degree 8 = I don't know
ARMENIA	SQ2S-06A-B	D	National options recoded to fit international categories: 1 = Elementary school / 1 or 2 years of school or did not go to school 2 = Middle school (8 years) 3 = Secondary school 4 = Secondary professional college 5 = Option not administered or data not available 6 = Higher education 7 = Ph.D. or Doctor of Science 8 = I don't know
AUSTRALIA	SQ2-06A-B	D	Nationally defined options: 1 = Primary school or did not go to school 2 = Some secondary schooling 3 = Secondary school (e.g., Year 12) 4 = TAFE training certificate (e.g., hairdressing or bricklaying) 5 = TAFE or college diploma (e.g., Diploma in Information Technology, Diploma in Veterinary Nursing) 6 = Bachelor's degree (e.g., Bachelor of Science, B.A., Bachelor of Commerce) 7 = Beyond bachelor's degree (e.g., Master of Arts, Ph.D.) 8 = I don't know
BAHRAIN	SQ2-06A-B	D	National options recoded to fit international categories: 1 = Some primary or intermediate education or did not go to school 2 = Intermediate 3 = Secondary 4 = Diploma 5 = Option not administered or data not available 6 = Bachelor's degree 7 = Beyond bachelor's degree 8 = I don't know
BASQUE COUNTRY, SPAIN	SQ2-06A-B	X	Question not administered or data not available

Section 4: Eighth Grade – Student Questionnaire

BOSNIA AND HERZEGOVINA	SQ2S-06A-B	D	Nationally defined options: 1 = Fourth grade of primary school or did not go to school 2 = Eighth grade of primary school 3 = Secondary vocational school 4 = Gymnasium 5 = Higher school 6 = Faculty 7 = M.A., doctorate, or specialization 8 = I don't know
BOTSWANA	SQ2-06A-B	D	Nationally defined options: 1 = Some primary or did not go to school 2 = Junior secondary 3 = Senior secondary 4 = Vocational / Technical Certificate 5 = Diploma 6 = First degree 7 = Master's degree or higher 8 = I don't know
BRITISH COLUMBIA, CANADA	SQ2-06A-B	D	National options recoded to fit international categories: 1 = Did not complete primary school or did not go to school 2 = Primary school 3 = Secondary education 4 = College 5 = Option not administered or data not available 6 = University first degree 7 = Beyond university first degree 8 = I don't know
BULGARIA	SQ2S-06A-B	D	Nationally defined options: 1 = Primary education or did not go to school 2 = Basic education 3 = Secondary education 4 = Secondary vocational education 5 = College education 6 = Higher education (bachelor's degree) 7 = Beyond higher education 8 = I don't know
CHINESE TAIPEI	SQ2-06A-B	D	National options recoded to fit international categories: 1 = Some primary school or did not go to school / Elementary education 2 = Junior high school 3 = Senior high school, vocational school 4 = Option not administered or data not available 5 = Junior college of technology (2- or 5-year system) / College of technology (2- or 4-year system) 6 = University or college (including 4-year institute of technology) 7 = Master's degree or higher 8 = I don't know
COLOMBIA	SQ2-06A-B	D	National options recoded to fit international categories: 1 = Primary education or did not go to school 2 = Secondary education 3 = High school (grades 10-11) 4 = Technical college 5 = Option not administered or data not available 6 = Bachelor's degree 7 = Master's degree / Ph.D. 8 = I don't know
CYPRUS	SQ2S-06A-B	D	National options recoded to fit international categories: 1 = Did not finish primary school/primary school 2 = Gymnasium 3 = Lyceum/technical school 4 = Option not administered or data not available 5 = School after lyceum 6 = University 7 = Postgraduate studies 8 = I don't know

Section 4: Eighth Grade – Student Questionnaire

CZECH REPUBLIC	SQ2S-06A-B	D	National options recoded to fit international categories: 1 = Primary school or lower secondary school 2 = Lower secondary school 3 = Secondary vocational education without maturate / Full secondary education with maturate 4 = Extension study (postsecondary, nontertiary level) 5 = Higher professional school or conservatory 6 = Bachelor's degree 7 = Master's degree or higher 8 = I don't know
DUBAI, UAE	SQ2-06A-B	D	Nationally defined options: 1 = Some elementary education or did not go to school 2 = Elementary school (preparatory education) 3 = Secondary education 4 = Diploma (nontertiary education) 5 = Higher diploma (tertiary education) 6 = Bachelor's degree 7 = Beyond bachelor's degree 8 = I don't know
EGYPT	SQ2-06A-B	D	National options recoded to fit international categories: 1 = Not finished elementary school 2 = Elementary school / Middle school 3 = Secondary school 4 = 2 years of postsecondary school 5 = Option not administered or data not available 6 = University 7 = Beyond university 8 = I don't know
EL SALVADOR	SQ2-06A-B	D	Nationally defined options: 1 = Some primary school or did not go to school 2 = Basic education 3 = Secondary education 4 = Postsecondary (technical) 5 = Undergraduate technical degree 6 = Undergraduate degree 7 = Postgraduate degree 8 = I don't know
ENGLAND	SQ2-06A-B	X	Question not administered or data not available
GEORGIA	SQ2S-06A-B	D	National options recoded to fit international categories: 1 = Primary education or did not go to school 2 = Basic education (grade 9) 3 = Secondary (grade 11) or secondary vocational education 4 = Option not administered or data not available 5 = Option not administered or data not available 6 = Higher education (bachelor's degree) 7 = 5 years tertiary education diploma / Higher education (master's degree) / Scientific degree 8 = I don't know
GHANA	SQ2-06A-B	D	Nationally defined options: 1 = Primary school or did not go to school 2 = Junior secondary school 3 = Senior secondary 4 = Postsecondary (Teacher / Nursing / Training) 5 = National Diploma (HND) 6 = First degree 7 = Second degree or above 8 = I don't know
HONG KONG SAR	SQ2-06A-B	D	National options recoded to fit international categories: 1 = Some primary school or did not go to school 2 = Primary school / Some secondary school 3 = Secondary school 4 = Some vocational education after secondary school 5 = Some university 6 = University 7 = Master's degree or higher 8 = I don't know

Section 4: Eighth Grade – Student Questionnaire

HUNGARY	SQ2S-06A-B	D	<p>National options recoded to fit international categories:</p> <p>1 = Did not complete grade 8 of primary school or did not go to school</p> <p>2 = Eighth grade of primary school</p> <p>3 = Vocational school / Secondary school with final examination</p> <p>4 = Vocational programs (usually 2 years) based on maturity examination</p> <p>5 = Accredited postsecondary vocational programs</p> <p>6 = College (4-year diploma) / University (5-year diploma)</p> <p>7 = Higher than university (e.g., Ph.D.)</p> <p>8 = I don't know</p>
INDONESIA	SQ2S-06A-B	D	<p>Nationally defined options:</p> <p>1 = Complete elementary school or did not go to school</p> <p>2 = Junior high school / Muslim junior high school</p> <p>3 = Senior high school</p> <p>4 = Diploma 1 / Diploma 2</p> <p>5 = Diploma 3</p> <p>6 = Bachelor's degree</p> <p>7 = Master's degree or higher</p> <p>8 = I don't know</p>
IRAN, ISLAMIC REP. OF	SQ2-06A	D	<p>Nationally defined options:</p> <p>1 = Some primary education or did not go to school</p> <p>2 = Lower secondary</p> <p>3 = High school</p> <p>4 = College</p> <p>5 = Associate degree</p> <p>6 = First degree</p> <p>7 = Beyond first degree</p> <p>8 = I don't know</p>
ISRAEL	SQ2-06A-B	D	<p>National options recoded to fit international categories:</p> <p>1 = Some years in primary or junior or did not attend school</p> <p>2 = 8 years of school or junior high school</p> <p>3 = Secondary general or vocational school</p> <p>4 = Nonacademic studies a few years after school (preparatory, vocational)</p> <p>5 = Option not administered or data not available</p> <p>6 = Professional academic studies (including B.Ed.) that do not lead directly to advanced university studies / University first degree leading directly to advanced university degree</p> <p>7 = Advanced university degree</p> <p>8 = I don't know</p>
ITALY	SQ2-06A-B	D	<p>National options recoded to fit international categories:</p> <p>1 = Some elementary school or did not go to school / Elementary school diploma</p> <p>2 = Junior high school diploma</p> <p>3 = High school diploma or professional diploma</p> <p>4 = Option not administered or data not available</p> <p>5 = Attended postsecondary school courses or higher diploma (Physical Education Institute, Institute of Fine Arts, Conservatory)</p> <p>6 = University</p> <p>7 = Specialization school, postgraduate course, master's degree, or Ph.D.</p> <p>8 = I don't know</p>
JAPAN	SQ2-06A-B	D	<p>Nationally defined options:</p> <p>1 = Elementary school</p> <p>2 = Lower secondary school</p> <p>3 = Upper secondary school</p> <p>4 = Junior college</p> <p>5 = Specific college (e.g., the Meteorological College, National Defense Academy)</p> <p>6 = University or college</p> <p>7 = Graduate school or higher</p> <p>8 = I don't know</p>

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JORDAN	SQ2-06A-B	D	National options recoded to fit international categories: 1 = Some first basic education stage (grades 1-10) or did not go to school 2 = First basic education stage (grades 1-10) 3 = Secondary education 4 = Community college diploma (2 years) / Community college diploma (3 years) 5 = Option not administered or data not available 6 = First university degree 7 = Beyond first university degree 8 = I don't know
KOREA, REP. OF	SQ2-06A-B	D	National options recoded to fit international categories: 1 = Did not finish elementary school or middle school or did not go to school 2 = Middle school 3 = High school 4 = Option not administered or data not available 5 = Junior college 6 = University 7 = Graduate school 8 = I don't know
KUWAIT	SQ2-06A-B	D	National options recoded to fit international categories: 1 = Did not complete secondary school 2 = Option not administered or data not available 3 = Secondary school 4 = Diploma (2 years after secondary school) 5 = Option not administered or data not available 6 = Bachelor's degree 7 = Beyond bachelor's degree (master's degree / Ph.D.) 8 = I don't know
LEBANON	SQ2S-06A-B	D	National options recoded to fit international categories: 1 = Did not go to school / Some primary or middle school 2 = Some of the secondary level 3 = Secondary level 4 = Part of a professional or technical training program 5 = 2 university years (first cycle) 6 = 4 university years (second cycle) or more 7 = Option not administered or data not available 8 = I don't know
LITHUANIA	SQ2S-06A-B	D	Nationally defined options: 1 = Did not go to school or finished only few classes 2 = Basic school 3 = Secondary or secondary vocational school 4 = Further postsecondary education 5 = Higher nonuniversity education (college) 6 = Bachelor's degree 7 = Higher than bachelor's degree (master degree, 5-year studies, etc.) 8 = I don't know
MALAYSIA	SQ2-06A-B	D	Nationally defined options: 1 = Some primary or lower secondary education or did not go to school 2 = Lower secondary education 3 = Upper secondary education 4 = Postsecondary, but not tertiary 5 = Diploma, but not in education 6 = First degree 7 = Beyond first degree 8 = I don't know

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MALTA	SQ2S-06A-B	D	Nationally defined options: 1 = Primary education 2 = Secondary education (Form V) 3 = Upper secondary education (advanced level, Technical Institute, certificate course at MCAST or Institute of Tourism Studies) 4 = Diploma course at Technical Institute, MCAST or Institute of Tourism Studies 5 = University Diploma Course 6 = First degree 7 = Second degree or higher 8 = I don't know
MASSACHUSETTS, US	SQ2-06A-B	D	National options recoded to fit international categories: 1 = Some elementary or junior high/middle school or did not go to school 2 = Junior high/middle school / Some high school 3 = High school 4 = Vocational/technical certificate after high school 5 = Associate's degree (AA) in a vocational/technical program 6 = 2-year or 4-year college or university degree (i.e., associate's or bachelor's degree) 7 = Master's degree, teaching certificate program, or professional degree (e.g., law, medicine, dentistry) or higher 8 = I don't know
MINNESOTA, US	SQ2-06A-B	D	National options recoded to fit international categories: 1 = Some elementary or junior high/middle school or did not go to school 2 = Junior high/middle school / Some high school 3 = High school 4 = Vocational/technical certificate after high school 5 = Associate's degree (AA) in a vocational/technical program 6 = 2-year or 4-year college or university degree (i.e., associate's or bachelor's degree) 7 = Master's degree, teaching certificate program, or professional degree (e.g., law, medicine, dentistry) or higher 8 = I don't know
MOROCCO	SQ2S-06A-B	D	National options recoded to fit international categories: 1 = Did not go to school or did not finish primary school / Primary school 2 = Intermediate diploma (9 years) 3 = Baccalaureat diploma or equivalent (12 years) 4 = Option not administered or data not available 5 = Option not administered or data not available 6 = License diploma or equivalent 7 = Postgraduate diploma / Ph.D. 8 = I don't know
NORWAY	SQ2-06A-B	D	National options recoded to fit international categories: 1 = Did go to or did not complete primary school / Primary school 2 = Lower secondary school 3 = Upper secondary school 4 = Option not administered or data not available 5 = Short study at college (1-2 years) 6 = University or college (at least 3 years) 7 = University or college (at least 5 years) 8 = I don't know
OMAN	SQ2-06A-B	D	National options recoded to fit international categories: 1 = Some elementary education or did not go to school 2 = Grade 9 3 = Grade 12 or equivalent 4 = Intermediate diploma or equivalent 5 = Option not administered or data not available 6 = Bachelor's degree 7 = Beyond bachelor's degree 8 = I don't know

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ONTARIO, CANADA	SQ2-06A-B	D	National options recoded to fit international categories: 1 = Did not complete primary school or did not go to school 2 = Primary school 3 = Secondary education 4 = College 5 = Option not administered or data not available 6 = University first degree 7 = Beyond university first degree 8 = I don't know
PALESTINIAN NAT'L AUTH.	SQ2-06A-B	D	National options recoded to fit international categories: 1 = Did not finish the first basic school stage (grades 1-10) or did not go to school 2 = First basic school stage (grade 10) 3 = General secondary stage certificate 4 = 2 years after school (diploma) / Three years after school (diploma) 5 = Option not administered or data not available 6 = Bachelor's degree 7 = Master's degree or more 8 = I don't know
QATAR	SQ2-06A-B	D	National options recoded to fit international categories: 1 = Primary education, some preparatory education, or did not go to school 2 = Preparatory education 3 = Secondary education 4 = Nontertiary institute / Tertiary institute 5 = Option not administered or data not available 6 = University 7 = Postuniversity 8 = I don't know
QUEBEC, CANADA	SQ2-06A-B	D	National options recoded to fit international categories: 1 = Did not complete primary school or did not go to school 2 = Primary school 3 = Secondary education 4 = College 5 = Option not administered or data not available 6 = University first degree 7 = Beyond university first degree 8 = I don't know
ROMANIA	SQ2S-06A-B	D	Nationally defined options: 1 = Some primary school or lower secondary school, or did not go to school 2 = Lower secondary school 3 = Upper secondary school 4 = Postsecondary school 5 = College 6 = University 7 = Post-tertiary education 8 = I don't know
RUSSIAN FEDERATION	SQ2S-06A-B	D	National options recoded to fit international categories: 1 = Did not complete basic education or did not go to school 2 = Basic education (finished grade 9) 3 = Secondary general education (finished grade 11) 4 = Primary vocational education / Secondary vocational education 5 = Option not administered or data not available 6 = Higher education 7 = Candidate or Doctor of Sciences (Ph.D.) 8 = I don't know

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SAUDI ARABIA	SQ2-06A-B	D	National options recoded to fit international categories: 1 = Did not go to school / Primary education 2 = Intermediate education 3 = Secondary education 4 = Diploma, not university 5 = Option not administered or data not available 6 = University, bachelor's degree 7 = Master's degree / Ph.D. 8 = I don't know
SCOTLAND	SQ2-06A-B	X	Question not administered or data not available
SERBIA	SQ2S-06A-B	D	National options recoded to fit international categories: 1 = Fourth grade of primary school or did not go to school 2 = Eighth grade of primary school 3 = Secondary vocational school / Gymnasium 4 = Option not administered or data not available 5 = Higher school 6 = Faculty 7 = Specialization, M.A., or Ph.D. 8 = I don't know
SINGAPORE	SQ2-06A-B	D	Nationally defined options: 1 = Some primary education / Lower secondary education or did not go to school 2 = Lower secondary 3 = Upper secondary 4 = Postsecondary nontertiary (e.g., JC/ Pre-U/ ITE) 5 = Diploma (e.g., Polytechnic) 6 = University (first degree) 7 = Beyond university (first degree) (e.g., master's degree or Ph.D.) 8 = I don't know
SLOVENIA	SQ2S-06A-B	D	Nationally defined options: 1 = Not finished elementary school 2 = Elementary school 3 = Secondary school 4 = Vocational courses after secondary school 5 = 2 to 3 years of university 6 = 4 to 5 years of university 7 = Master's degree or Ph.D. 8 = I don't know
SWEDEN	SQ2S-06A-B	D	Nationally defined options: 1 = No education or less than 9 years in school 2 = 9 years compulsory school 3 = Upper secondary school 4 = Postsecondary nontertiary education 5 = University certificate (at least 80p, less than 120p), 2-3 years 6 = University degree (120-160p), at least 3 years 7 = University degree (160p or higher) 8 = I don't know
SYRIAN ARAB REPUBLIC	SQ2S-06A-B	D	Nationally defined options: 1 = Some of first stage or second stage of basic education or did not go to school 2 = Second stage of basic education 3 = Secondary education 4 = Postsecondary education, intermediate institutes 5 = Practical bachelor's degree (e.g., general science, engineering, medicine) 6 = Theoretical bachelor's degree (e.g., literature) 7 = Master's degree or higher 8 = I don't know

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THAILAND	SQ2-06A-B	D	National options recoded to fit international categories: 1 = Some primary education or lower secondary education or did not go to school 2 = Lower secondary education 3 = Upper secondary education or vocational certificate 4 = Diploma or higher vocational certificate 5 = Bachelor's degree (5-year program or longer) 6 = Bachelor's degree 7 = Higher than bachelor's degree 8 = I don't know
TUNISIA	SQ2-06A-B	D	Nationally defined options: 1 = Primary education or did not go to school 2 = Lower secondary (second cycle of basic education) 3 = Upper secondary 4 = Vocational education after higher secondary diploma 5 = First cycle of university 6 = Second cycle of university 7 = Third cycle of university 8 = I don't know
TURKEY	SQ2-06A-B	D	National options recoded to fit international categories: 1 = Dropped out from primary education or did not go to school 2 = Primary education / Lower secondary education 3 = Secondary education 4 = Option not administered or data not available 5 = First stage of tertiary education (2 or 3 years) 6 = Tertiary education (first degree, B.A.) 7 = Tertiary Education (second degree, M.S./M.A., Ph.D.) 8 = I don't know
UKRAINE	SQ2S-06A-B	D	Nationally defined options: 1 = Primary education or did not go to school 2 = Basic education 3 = Secondary education 4 = Secondary vocational education 5 = College education 6 = Higher education (bachelor's degree) 7 = Beyond higher education (Ph.D., Doctor of Science, etc.) 8 = I don't know
UNITED STATES	SQ2-06A-B	D	National options recoded to fit international categories: 1 = Some elementary or junior high/middle school or did not go to school 2 = Junior high/middle school / Some high school 3 = High school 4 = Vocational/technical certificate after high school 5 = Associate's degree (A.A.) in a vocational/technical program 6 = 2-year or 4-year college or university degree (i.e., associate's or bachelor's degree) 7 = Master's degree, teaching certificate program, or professional degree (e.g., law, medicine, dentistry) or higher 8 = I don't know

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SQ2-07 / SQ2S-07

Question:

How far in school do you expect to go?

1 = Finish <ISCED 3>

2 = Finish <ISCED 4>

3 = Finish <ISCED 5B>

4 = Finish <ISCED 5A, first degree>

5 = Beyond <ISCED 5A, first degree>

6 = I don't know

Variable Name(s): BS4GHFSG

Country	Question / Option	Code	Documentation
ALGERIA	SQ2S-07	D	Nationally defined options: 1 = Secondary schooling 2 = Technician certificate 3 = High-level technician diploma / Applied higher education diploma / ITE 4 = Bachelor of Arts degree 5 = Postgraduate degree 6 = I don't know
ARMENIA	SQ2S-07	D	National options recoded to fit international categories: 1 = Secondary school 2 = Professional college 3 = Option not administered or data not available 4 = Bachelor's degree 5 = Master's degree 6 = I don't know
AUSTRALIA	SQ2-07	D	Nationally defined options: 1 = Secondary school 2 = TAFE training certificate (e.g., hairdressing or bricklaying) 3 = TAFE or college diploma (e.g., Diploma in Information Technology, Diploma in Veterinary Nursing) 4 = Bachelor's degree (e.g., Bachelor of Science, B.A., Bachelor of Commerce) 5 = Further than a bachelor's degree (e.g., Master of Arts, Ph.D.) 6 = I don't know
BAHRAIN	SQ2-07	D	National options recoded to fit international categories: 1 = Secondary 2 = Diploma 3 = Option not administered or data not available 4 = Bachelor's degree 5 = Beyond bachelor's degree 6 = I don't know
BASQUE COUNTRY, SPAIN	SQ2-07	X	Question not administered or data not available
BOSNIA AND HERZEGOVINA	SQ2S-07	D	Nationally defined options: 1 = Secondary vocational school 2 = Gymnasium 3 = Higher school 4 = Faculty 5 = M.A., doctorate, or specialization 6 = I don't know
BOTSWANA	SQ2-07	D	Nationally defined options: 1 = Senior secondary 2 = Vocational / Technical Certificate 3 = Diploma 4 = First degree 5 = Master's degree or higher 6 = I don't know

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BRITISH COLUMBIA, CANADA	SQ2-07	D	National options recoded to fit international categories: 1 = Secondary education 2 = College 3 = Option not administered or data not available 4 = University first degree 5 = Beyond university first degree 6 = I don't know
BULGARIA	SQ2S-07	D	Nationally defined options: 1 = Secondary education 2 = Secondary vocational education 3 = College education 4 = Higher education (bachelor's degree) 5 = Beyond higher education 6 = I don't know
CHINESE TAIPEI	SQ2-07	D	Nationally defined options: 1 = High school, vocational school 2 = Option not administered or data not available 3 = Junior teacher college, junior college (2-year or 5-year system) / College of Technology (2-year system) 4 = University or college (including 4-year Institute of Technology) 5 = Master's degree or Ph.D. 6 = I don't know
COLOMBIA	SQ2-07	D	National options recoded to fit international categories: 1 = High school (grades 10-11) 2 = Technical college 3 = Option not administered or data not available 4 = Bachelor's degree 5 = Master's degree / Ph.D. 6 = I don't know
CYPRUS	SQ2S-07	D	National options recoded to fit international categories: 1 = Lyceum/technical school 2 = Option not administered or data not available 3 = Trade school 4 = College / University 5 = Postgraduate studies 6 = I don't know
CZECH REPUBLIC	SQ2S-07	D	National options recoded to fit international categories: 1 = Secondary vocational education without Maturate / Full secondary vocational education with Maturate / Full secondary technical education with Maturate / Full secondary general education with Maturate 2 = Option not administered or data not available 3 = Higher professional school or conservatory 4 = Bachelor's degree 5 = Master's degree or higher 6 = I don't know
DUBAI, UAE	SQ2-07	D	Nationally defined options: 1 = Secondary education 2 = Diploma (nontertiary education) 3 = Higher diploma (tertiary education) 4 = Bachelor's degree 5 = Postuniversity education 6 = I don't know
EGYPT	SQ2-07	D	National options recoded to fit international categories: 1 = Secondary school 2 = 2 years of postsecondary school 3 = Option not administered or data not available 4 = University 5 = Beyond university 6 = I don't know
EL SALVADOR	SQ2-07	D	Nationally defined options: 1 = Secondary education 2 = Postsecondary (technical) 3 = Undergraduate technical degree 4 = Undergraduate degree 5 = Postgraduate degree 6 = I don't know

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ENGLAND	SQ2-07	D	National options recoded to fit international categories: 1 = GCSE / A level 2 = Access course to higher education 3 = College certificate/diploma (HND/HNC) or equivalent 4 = First degree 5 = Beyond first degree 6 = I don't know
GEORGIA	SQ2S-07	D	National options recoded to fit international categories: 1 = Secondary education or vocational education 2 = Option not administered or data not available 3 = Option not administered or data not available 4 = Higher education (bachelor's degree) 5 = Higher education (master's degree) / Scientific degree (Ph.D.) 6 = I don't know
GHANA	SQ2-07	D	Nationally defined options: 1 = Senior secondary 2 = Postsecondary (Teacher/ Nursing /Training) 3 = National Diploma (HND) 4 = First degree 5 = Second degree or above 6 = I don't know
HONG KONG SAR	SQ2-07	D	Nationally defined options: 1 = Secondary school 2 = Some vocational education after secondary school 3 = Certificate, diploma, or associate degree after secondary school 4 = University 5 = Master degree or higher 6 = I don't know
HUNGARY	SQ2S-07	D	National options recoded to fit international categories: 1 = Vocational school / Secondary school with final examination 2 = Vocational programs (usually 2 years) based on maturity examination 3 = Accredited postsecondary vocational programs 4 = College (4 years, diploma) 5 = University or higher (e.g., Ph.D.) 6 = I don't know
INDONESIA	SQ2S-07	D	Nationally defined options: 1 = Senior high school 2 = Diploma 1 / Diploma 2 3 = Diploma 3 4 = Bachelor's degree 5 = Master's degree or higher 6 = I don't know
IRAN, ISLAMIC REP. OF	SQ2-07	D	Nationally defined options: 1 = High school 2 = College 3 = Associate degree 4 = First degree 5 = Beyond first degree 6 = I don't know
ISRAEL	SQ2-07	D	National options recoded to fit international categories: 1 = General or vocational secondary school 2 = Few years of postsecondary nonacademic studies (preparatory, vocational) 3 = Option not administered or data not available 4 = Vocational academic studies (including B.Ed.) that do not lead directly to advanced studies / University first degree studies that lead to advanced studies 5 = Beyond first degree university studies 6 = I don't know

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ITALY	SQ2-07	D	National options recoded to fit international categories: 1 = High school diploma or professional diploma 2 = Option not administered or data not available 3 = Attended postsecondary school courses or higher diploma (Physical Education Institute, Institute of Fine Arts, Conservatory) 4 = University 5 = Specialization school, postgraduate course, master's degree, or Ph.D. 6 = I don't know
JAPAN	SQ2-07	D	Nationally defined options: 1 = Upper secondary school 2 = Junior college 3 = Specific college (e.g., the Meteorological College, National Defense Academy) 4 = University or college 5 = Graduate school or higher 6 = I don't know
JORDAN	SQ2-07	D	National options recoded to fit international categories: 1 = Final stage of secondary school education 2 = Community college diploma (2 years) / Community college diploma (3 years) 3 = Option not administered or data not available 4 = First university degree 5 = Beyond first university degree 6 = I don't know
KOREA, REP. OF	SQ2-07	D	National options recoded to fit international categories: 1 = High school 2 = Option not administered or data not available 3 = Junior college 4 = University 5 = Graduate school 6 = I don't know
KUWAIT	SQ2-07	D	National options recoded to fit international categories: 1 = Secondary school 2 = Diploma (2 years after secondary school) 3 = Option not administered or data not available 4 = Bachelor's degree 5 = Beyond bachelor's degree (master's degree / Ph.D.) 6 = I don't know
LEBANON	SQ2S-07	D	National options recoded to fit international categories: 1 = Secondary school level 2 = Part of a professional or technical training program 3 = Option not administered or data not available 4 = University studies 5 = Option not administered or data not available 6 = I don't know
LITHUANIA	SQ2S-07	D	National options recoded to fit international categories: 1 = Secondary or secondary vocational school 2 = Option not administered or data not available 3 = Higher nonuniversity education (college) 4 = University (bachelor's degree) 5 = Higher than bachelor's degree 6 = I don't know
MALAYSIA	SQ2-07	D	Nationally defined options: 1 = Upper secondary education 2 = Postsecondary, but not tertiary 3 = Diploma, but not in education 4 = First degree 5 = Beyond first degree 6 = I don't know

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MALTA	SQ2S-07	D	Nationally defined options: 1 = Upper secondary education (MATSEC advanced level, Certificate course at MCAST or Institute of Tourism Studies) 2 = Diploma course at MCAST or Institute of Tourism Studies 3 = Diploma course at university 4 = First degree 5 = Second degree or higher 6 = I don't know
MASSACHUSETTS, US	SQ2-07	D	Nationally defined options: 1 = High school 2 = Vocational/technical education after high school 3 = Community or junior college 4 = Bachelor's degree at a college or university 5 = Beyond a bachelor's degree 6 = I don't know
MINNESOTA, US	SQ2-07	D	Nationally defined options: 1 = High school 2 = Vocational/technical education after high school 3 = Community or junior college 4 = Bachelor's degree at a college or university 5 = Beyond a bachelor's degree 6 = I don't know
MOROCCO	SQ2S-07	D	National options recoded to fit international categories: 1 = Baccalaureat diploma or equivalent 2 = Option not administered or data not available 3 = Option not administered or data not available 4 = License diploma or equivalent 5 = Postgraduate diploma / Ph.D. 6 = I don't know
NORWAY	SQ2-07	D	National options recoded to fit international categories: 1 = Upper secondary school 2 = Option not administered or data not available 3 = Short study at college (1-2 years) 4 = University or college (at least 3 years) 5 = University or college (at least 5 years) 6 = I don't know
OMAN	SQ2-07	D	National options recoded to fit international categories: 1 = Grade 12 or equivalent 2 = Intermediate diploma or equivalent 3 = Option not administered or data not available 4 = Bachelor's degree 5 = Beyond bachelor's degree 6 = I don't know
ONTARIO, CANADA	SQ2-07	D	National options recoded to fit international categories: 1 = Secondary education 2 = College 3 = Option not administered or data not available 4 = University first degree 5 = Beyond university first degree 6 = I don't know
PALESTINIAN NAT'L AUTH.	SQ2-07	D	National options recoded to fit international categories: 1 = General secondary stage certificate 2 = 2 years after school (diploma) / Three years after school (diploma) 3 = Option not administered or data not available 4 = Bachelor's degree 5 = Master's degree or higher 6 = I don't know
QATAR	SQ2-07	D	National options recoded to fit international categories: 1 = Secondary education 2 = Nontertiary institute / Tertiary institute 3 = Option not administered or data not available 4 = University 5 = Postuniversity 6 = I don't know

Section 4: Eighth Grade – Student Questionnaire

QUEBEC, CANADA	SQ2-07	D	National options recoded to fit international categories: 1 = Secondary education 2 = College 3 = Option not administered or data not available 4 = University first degree 5 = Beyond university first degree 6 = I don't know
ROMANIA	SQ2S-07	D	Nationally defined options: 1 = Upper secondary school 2 = Postsecondary school 3 = College 4 = University 5 = Post-tertiary education 6 = I don't know
RUSSIAN FEDERATION	SQ2S-07	D	National options recoded to fit international categories: 1 = Secondary general education (finish grade 11) 2 = Primary vocational education / Secondary vocational education 3 = Option not administered or data not available 4 = Higher education 5 = Candidate or Doctor of Science (Ph.D.) 6 = I don't know
SAUDI ARABIA	SQ2-07	D	National options recoded to fit international categories: 1 = Secondary education 2 = Option not administered or data not available 3 = Option not administered or data not available 4 = University, bachelor's degree 5 = Master's degree / Ph.D. 6 = I don't know
SCOTLAND	SQ2-07	D	National options recoded to fit international categories: 1 = Standard grade / Higher grade 2 = Access course to college of university 3 = College certificate/diploma (HNC, HND) or equivalent 4 = University degree 5 = Postgraduate degree 6 = I don't know
SERBIA	SQ2S-07	D	National options recoded to fit international categories: 1 = Secondary vocational school / Gymnasium 2 = Option not administered or data not available 3 = Higher school 4 = Faculty 5 = Specialization, M.A., or Ph.D. 6 = I don't know
SINGAPORE	SQ2-07	D	Nationally defined options: 1 = Upper secondary 2 = Postsecondary nontertiary (e.g., JC/ Pre-U/ ITE) 3 = Diploma (e.g., Polytechnic) 4 = University (first degree) 5 = Beyond university (first degree) (e.g., master's degree or Ph.D.) 6 = I don't know
SLOVENIA	SQ2S-07	D	National options recoded to fit international categories: 1 = Secondary school 2 = Professional education after secondary school 3 = 3 years of university studies (called higher studies) 4 = 4 to 5 years of university studies 5 = Master's degree or Ph.D. 6 = I haven't decided yet / I can't answer, because I don't know the levels of education
SWEDEN	SQ2S-07	D	Nationally defined options: 1 = Upper secondary school 2 = Postsecondary nontertiary education 3 = University certificate (at least 80p, less than 120p), 2-3 years 4 = University degree (120-160p), at least 3 years 5 = University degree (160p or higher) 6 = I don't know

Section 4: Eighth Grade – Student Questionnaire

SYRIAN ARAB REPUBLIC	SQ2S-07	D	Nationally defined options: 1 = Secondary education 2 = Postsecondary education, intermediate institutes 3 = Practical bachelor's degree (e.g., general science, engineering, medicine) 4 = Theoretical bachelor's degree (e.g., literature) 5 = Master's degree or higher 6 = I don't know
THAILAND	SQ2-07	D	National options recoded to fit international categories: 1 = Upper secondary education or vocational certificate 2 = Diploma or higher vocational certificate 3 = Bachelor's degree (5-year program or longer) 4 = Bachelor's degree 5 = Higher than bachelor's degree 6 = I don't know
TUNISIA	SQ2-07	D	Nationally defined options: 1 = Upper secondary education 2 = Vocational education after higher secondary diploma 3 = First cycle of university 4 = Second cycle of university 5 = Beyond the third cycle of university 6 = I don't know
TURKEY	SQ2-07	D	National options recoded to fit international categories: 1 = Upper secondary education 2 = Option not administered or data not available 3 = First stage of tertiary education (2 or 3 years) 4 = Tertiary education (first degree, B.A.) 5 = Tertiary education (second degree, M.S./M.A., Ph.D.) 6 = I don't know
UKRAINE	SQ2S-07	D	Nationally defined options: 1 = Secondary education 2 = Secondary vocational education 3 = College education 4 = Higher education (bachelor's degree) 5 = Higher education (Ph.D., Doctor of Science, etc.) 6 = I don't know
UNITED STATES	SQ2-07	D	Nationally defined options: 1 = High school 2 = Vocational/technical education after high school 3 = Community or junior college 4 = Bachelor's degree at a college or university 5 = Beyond a bachelor's degree 6 = I don't know

SQ2-09A-D / SQ2S-09A-D**Question:**

How much do you agree with these statements about mathematics?

A: I think learning mathematics will help me in my daily life

B: I need mathematics to learn other school subjects

C: I need to do well in mathematics to get into the <university> of my choice

D: I need to do well in mathematics to get the job I want

1 = Agree a lot

2 = Agree a little

3 = Disagree a little

4 = Disagree a lot

Variable Name(s): BS4MAHDL, BS4MAOSS, BS4MAUNI, BS4MAGET

Country	Question / Option	Code	Documentation
AUSTRALIA	SQ2-09C	D	I need to do well in mathematics to get into the tertiary course of my choice
BASQUE COUNTRY, SPAIN	SQ2-09C	D	I need to do well in mathematics to get into the further/high degree studies of my choice
BRITISH COLUMBIA, CANADA	SQ2-09C	D	I need to do well in mathematics to get into the postsecondary institution of my choice
CHINESE TAIPEI	SQ2-09C	D	I need to do well in mathematics to get into the school that I deem ideal in my heart
GHANA	SQ2-09C	D	Stem of the question changed: I need to do well in mathematics to get into the institution of my choice
ITALY	SQ2-09C	D	I need to do well in mathematics to get into the secondary school of my choice
NORWAY	SQ2-09C	D	I need to do well in mathematics to get into the education of my choice
ONTARIO, CANADA	SQ2-09C	D	I need to do well in mathematics to get into the postsecondary institution of my choice
QUEBEC, CANADA	SQ2-09C	D	I need to do well in mathematics to get into the postsecondary institution of my choice
SLOVENIA	SQ2S-09C	D	I need to do well in mathematics to get into the secondary school of my choice

Section 4: Eighth Grade – Student Questionnaire

SQ2-10A-Q / SQ2S-10A-Q

Question:

How often do you do these things in your mathematics lessons?

A: We practice adding, subtracting, multiplying, and dividing without using a calculator

B: We work on fractions and decimals

C: We solve problems about geometric shapes, lines and angles

D: We interpret data in tables, charts, or graphs

E: We write equations and functions to represent relationships

F: We memorize formulas and procedures

G: We explain our answers

H: We relate what we are learning in mathematics to our daily lives

I: We decide on our own procedures for solving complex problems

J: We review our homework

K: We listen to the teacher give a lecture-style presentation

L: We work problems on our own

M: We work together in small groups

N: We begin our homework in class

O: We have a quiz or test

P: We use calculators

Q: We use computers

1 = Every or almost every lesson

2 = About half the lesson

3 = Some lessons

4 = Never

Variable Name(s): BS4MHASHM, BS4MHWFD, BS4MHGSA, BS4MHGCT, BS4MHEFR, BS4MHFRR, BS4MHEXP, BS4MHMDL, BS4MHSCP, BS4MROH, BS4MHLSP, BS4MHWPO, BS4MHWSG, BS4MHBHC, BS4MHHQT, BS4MHCAL, BS4MHCOM

Country	Question / Option	Code	Documentation
HUNGARY	SQ2S-10O	D	We have a quiz or oral test
JAPAN	SQ2-10A	X	Question not administered or data not available

SQ2-12A-D / -**Question:**

How much do you agree with these statements about science?

A: I think learning science will help me in my daily life

B: I need science to learn ther school subjects

C: I need to do well in science to get into the <university> of my choice

D: I need to do well in science to get the job I want

1 = Agree a lot

2 = Agree a little

3 = Disagree a little

4 = Disagree a lot

(Corresponding questions about the separate sciences included in SQ2S-13A-D, SQ2S-17A-D, SQ2S-21A-D, SQ2S-25A-D)

Variable Name(s): BS4SAHDL, BS4SAOSS, BS4SAUNI, BS4SAGET

Country	Question / Option	Code	Documentation
AUSTRALIA	SQ2-12C	D	I need to do well in science to get into the tertiary course of my choice
BASQUE COUNTRY, SPAIN	SQ2-12C	D	I need to do well in science to get into the further/high degree studies of my choice
BRITISH COLUMBIA, CANADA	SQ2-12C	D	I need to do well in science to get into the postsecondary institution of my choice
CHINESE TAIPEI	SQ2-12C	D	I need to do well in science to get into the school that I deem ideal in my heart
GHANA	SQ2-12C	D	Stem of the question changed: I need to do well in science to get into the institution of my choice
ITALY	SQ2-12C	D	I need to do well in science to get into the secondary school of my choice
NORWAY	SQ2-12C	D	I need to do well in science to get into the education of my choice
ONTARIO, CANADA	SQ2-12C	D	I need to do well in science to get into the postsecondary institution of my choice
QUEBEC, CANADA	SQ2-12C	D	I need to do well in science to get into the postsecondary institution of my choice

SQ2-14CA-CB / SQ2S-27C**Question:**

How often do you use a computer for your schoolwork (in and out of school)?

A: In mathematics

B: In biology

C: In earth science

D: In chemistry

E: In physics

1 = Every day

2 = At least once a week

3 = Once or twice a month

4 = A few times a year

5 = Never

Variable Name(s): BS4MCSWM, BS4BCSWB, BS4ECSWE, BS4CCSWC, BS4PCSWP

Country	Question / Option	Code	Documentation
LEBANON	SQ2S-27CB	D	In life and earth sciences
LEBANON	SQ2S-27CC	X	Option not administered or data not available

Section 4: Eighth Grade – Student Questionnaire

SQ2-16A-E / SQ2S-29A-E

Question:

- In school, did any of these things happen during the last month?
 A: Something of mine was stolen
 B: I was hit or hurt by other student(s) (e.g., shoving, hitting, kicking)
 C: I was made to do things I didn't want to do by other students
 D: I was made fun of or called names
 E: I was left out of activities by other students
 1 = Yes
 2 = No

Variable Name(s): BS4GSTOL, BS4GHURT, BS4GMADE, BS4GMFUN, BS4GLEFT

Country	Question / Option	Code	Documentation
MASSACHUSETTS, US	SQ2-16A-E	X	Question not administered or data not available
MINNESOTA, US	SQ2-16A-E	X	Question not administered or data not available
UNITED STATES	SQ2-16A-E	X	Question not administered or data not available

SQ2-17A-I / SQ2S-30A-I

Question:

- On a normal school day, how much time do you spend before or after school doing each of these things?
 A: I watch television and videos
 B: I play computer games
 C: I play or talk with friends
 D: I do jobs at home
 E: I work at a paid job
 F: I play sports
 G: I read a book for enjoyment
 H: I use the Internet
 I: I do homework
 1 = No time
 2 = Less than 1 hour
 3 = 1-2 hours
 4 = More than 2 but less than 4 hours
 5 = 4 or more hours

Variable Name(s): BS4GWATV, BS4GPLCG, BS4GPLFD, BS4GJOHM, BS4GWKPJ, BS4GPLSP, BS4GREBO, BS4GUSIN, BS4GDOHW

Country	Question / Option	Code	Documentation
SINGAPORE	SQ2-17E	D	I work part-time

SQ2-20A-B / SQ2S-32A-B**Question:**

A: Was your mother (or stepmother or female guardian) born in <country>?

B: Was your father (or stepfather or male guardian) born in <country>?

1 = Yes

2 = No

Variable Name(s): BS4GMBRN, BS4GFBRN

Country	Question / Option	Code	Documentation
BASQUE COUNTRY, SPAIN	SQ2-20A	D	Stem of the question changed: Where have you, your mother, and your father been born? a) Mother National options recoded to fit international categories: 1 = In the Basque Autonomous Community / In another community in Spain 2 = In another country
BASQUE COUNTRY, SPAIN	SQ2-20B	D	Stem of the question changed: Where have you, your mother, and your father been born? b) Father National options recoded to fit international categories: 1 = In the Basque Autonomous Community / In another community in Spain 2 = In another country

SQ2-21A-B / SQ2S-33A-B**Question:**

A: Were you born in <country>?

1 = Yes

2 = No

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

1 = Older than 10 years old

2 = 5 to 10 years old

3 = Younger than 5 years old

Variable Name(s): BS4GBORN, BS4GBRNC

Country	Question / Option	Code	Documentation
BASQUE COUNTRY, SPAIN	SQ2-21A	D	Asked in national question 20c: Stem of the question changed: Where have you, your mother, and your father been born? c) You National options recoded to fit international categories: 1 = In the Basque Autonomous Community / In another community in Spain 2 = In another country

Section 4: Eighth Grade – Student Questionnaire

- / SQ2S-11

Question:

Are you studying biology in school this year?

1 = Yes

2 = No

Variable Name(s): BS4BSBIO

Country	Question / Option	Code	Documentation
LEBANON	SQ2S-11	D	Stem of the question changed: Are you studying life and earth sciences in school this year?
SLOVENIA	SQ2S-11	D	Gang punched to "Yes"

- / SQ2S-12A-H

Question:

How much do you agree with these statements about learning biology?

A: I usually do well in biology

B: I would like to take more biology in school

C: Biology is more difficult for me than for many of my classmates

D: I enjoy learning biology

E: Biology is not one of my strengths

F: I learn things quickly in biology

G: Biology is boring

H: I like biology

1 = Agree a lot

2 = Agree a little

3 = Disagree a little

4 = Disagree a lot

(Corresponding question about the general science included in SQ2-11A-H)

Variable Name(s): BS4BAWEL, BS4BAMOR, BS4BACLM, BS4BAENJ, BS4BASTR, BS4BAQKY, BS4BABOR, BS4BALIK

Country	Question / Option	Code	Documentation
LEBANON	SQ2S-12A-H	D	Stem of the question changed: How much do you agree with these statements about learning life and earth sciences? Biology replaced with life and earth sciences for all the options.

- / SQ2S-13A-D**Question:**

How much do you agree with these statements about biology?

A: I think learning biology will help me in my daily life

B: I need biology to learn other school subjects

C: I need to do well in biology to get into the <university> of my choice

D: I need to do well in biology to get the job I want

1 = Agree a lot

2 = Agree a little

3 = Disagree a little

4 = Disagree a lot

(Corresponding question about the general science included in SQ2-12A-D)

Variable Name(s): BS4BAHDL, BS4BAOSS, BS4BAUNI, BS4BAGET

Country	Question / Option	Code	Documentation
LEBANON	SQ2S-13A-D	D	Stem of the question changed: How much do you agree with these statements about life and earth sciences? Biology replaced with life and earth sciences for all the options.
SLOVENIA	SQ2S-13C	D	I need to do well in biology to get into the secondary school of my choice

Section 4: Eighth Grade – Student Questionnaire

- / SQ2S-14A-P

Question:

- How often do you do these things in your biology lessons?
- A: We make observations and describe what we see
 - B: We watch the teacher demonstrate an experiment or investigation
 - C: We design or plan an experiment or investigation
 - D: We conduct an experiment or investigation
 - E: We work in small groups on an experiment or investigation
 - F: We read our biology textbooks and other resource materials
 - G: We memorize science facts and principals
 - H: We use scientific formulas and laws to solve problems
 - I: We give explanations about what we are studying
 - J: We relate what we are learning in biology to our daily lives
 - K: We review our homework
 - L: We listen to the teacher give a lecture-style presentation
 - M: We work problems on our own
 - N: We begin our homework in class
 - O: We have a quiz or test
 - P: We use computers
- 1 = Every or almost every lesson
 - 2 = About half the lesson
 - 3 = Some lessons
 - 4 = Never

(Corresponding question about the general science included in SQ2-13A-P)

Variable Name(s): BS4BH OBS, BS4BHDEI, BS4BHPEI, BS4BHCEI, BS4BHWGO, BS4BHTEX, BS4BHFAP, BS4BHLAW, BS4BHEOS, BS4BHMDL, BS4BHROH, BS4BHLSP, BS4BHWPO, BS4BHBHC, BS4BHHQT, BS4BHCOM

Country	Question / Option	Code	Documentation
HUNGARY	SQ2S-14O	D	We have a quiz or oral test
LEBANON	SQ2S-14A-P	D	Stem of the question changed: How often do you do these things in your life and earth sciences lessons? Biology replaced with life and earth sciences for all the options.

- / SQ2S-15

Question:

- Are you studying earth science in school this year?
- 1 = Yes
 - 2 = No

Variable Name(s): BS4EARTH

Country	Question / Option	Code	Documentation
LEBANON	SQ2S-15	X	Question not administered or data not available
SLOVENIA	SQ2S-15	D	Gang punched to "Yes"

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

How much do you agree with these statements about learning earth science?

- A: I usually do well in earth science
 - B: I would like to take more earth science in school
 - C: Earth science is more difficult for me than for many of my classmates
 - D: I enjoy learning earth science
 - E: Earth science is not one of my strengths
 - F: I learn things quickly in earth science
 - G: Earth science is boring
 - H: I like earth science
- 1 = Agree a lot
2 = Agree a little
3 = Disagree a little
4 = Disagree a lot

(Corresponding question about the general science included in SQ2-11A-H)

Variable Name(s): BS4EAWEL, BS4EAMOR, BS4EACLM, BS4EAENJ, BS4EASTR, BS4EAQKY, BS4EABOR, BS4EALIK

Country	Question / Option	Code	Documentation
LEBANON	SQ2S-16A-H	X	Question not administered or data not available

- / SQ2S-17A-D**Question:**

How much do you agree with these statements about earth science?

- A: I think learning earth science will help me in my daily life
 - B: I need earth science to learn other school subjects
 - C: I need to do well in earth science to get into the <university> of my choice
 - D: I need to do well in earth science to get the job I want
- 1 = Agree a lot
2 = Agree a little
3 = Disagree a little
4 = Disagree a lot

(Corresponding question about the general science included in SQ2-12A-D)

Variable Name(s): BS4EAHDL, BS4EAOSS, BS4EAUNI, BS4EAGET

Country	Question / Option	Code	Documentation
LEBANON	SQ2S-17A-D	X	Question not administered or data not available
SLOVENIA	SQ2S-17C	D	I need to do well in geography to get into the secondary school of my choice

Section 4: Eighth Grade – Student Questionnaire

- / SQ2S-18A-P

Question:

- How often do you do these things in your earth science lessons?
- A: We make observations and describe what we see
 - B: We watch the teacher demonstrate an experiment or investigation
 - C: We design or plan an experiment or investigation
 - D: We conduct an experiment or investigation
 - E: We work in small groups on an experiment or investigation
 - F: We read our earth science textbooks and other resource materials
 - G: We memorize science facts and principles
 - H: We use scientific formulas and laws to solve problems
 - I: We give explanations about what we are studying
 - J: We relate what we are learning in earth science to our daily lives
 - K: We review our homework
 - L: We listen to the teacher give a lecture-style presentation
 - M: We work problems on our own
 - N: We begin our homework in class
 - O: We have a quiz or test
 - P: We use computers
 - 1 = Every or almost every lesson
 - 2 = About half the lesson
 - 3 = Some lessons
 - 4 = Never

(Corresponding question about the general science included in SQ2-13A-P)

Variable Name(s): BS4EHOB, BS4EHDEI, BS4EHPEI, BS4EHCEI, BS4EHWGO, BS4EHTEX, BS4EHFAP, BS4EHLAW, BS4EHEOS, BS4EHMDL, BS4EHROH, BS4EHLSP, BS4EHWPO, BS4EHBHC, BS4EHHQT, BS4EHCOM

Country	Question / Option	Code	Documentation
HUNGARY	SQ2S-18O	D	We have a quiz or oral test
LEBANON	SQ2S-18A-P	X	Question not administered or data not available

- / SQ2S-19

Question:

- Are you studying chemistry in school this year?
- 1 = Yes
 - 2 = No

Variable Name(s): BS4CCHEM

Country	Question / Option	Code	Documentation
SLOVENIA	SQ2S-19	D	Gang punched to "Yes"

- / SQ2S-21A-D**Question:**

How much do you agree with these statements about chemistry?

A: I think learning chemistry will help me in my daily life

B: I need chemistry to learn other school subjects

C: I need to do well in chemistry to get into the <university> of my choice

D: I need to do well in chemistry to get the job I want

1 = Agree a lot

2 = Agree a little

3 = Disagree a little

4 = Disagree a lot

(Corresponding question about the general science included in SQ2-12A-D)

Variable Name(s): BS4CAHDL, BS4CAOSS, BS4CAUNI, BS4CAGET

Country	Question / Option	Code	Documentation
SLOVENIA	SQ2S-21C	D	I need to do well in chemistry to get into the secondary school of my choice

- / SQ2S-22A-P**Question:**

How often do you do these things in your chemistry lessons?

A: We make observations and describe what we see

B: We watch the teacher demonstrate an experiment or investigation

C: We design or plan an experiment or investigation

D: We conduct an experiment or investigation

E: We work in small groups on an experiment or investigation

F: We read our chemistry textbooks and other resource materials

G: We memorize science facts and principles

H: We use scientific formulas and laws to solve problems

I: We give explanations about what we are studying

J: We relate what we are learning in chemistry to our daily lives

K: We review our homework

L: We listen to the teacher give a lecture-style presentation

M: We work problems on our own

N: We begin our homework in class

O: We have a quiz or test

P: We use computers

1 = Every or almost every lesson

2 = About half the lesson

3 = Some lessons

4 = Never

(Corresponding question about the general science included in SQ2-13A-P)

Variable Name(s): BS4CHOBS, BS4CHDEI, BS4CHPEI, BS4CHCEI, BS4CHWGO, BS4CHTEX, BS4CHFAP, BS4CHLAW, BS4CHEOS, BS4CHMDL, BS4CHROH, BS4CHLSP, BS4CHWPO, BS4CHBHC, BS4CHHQT, BS4CHCOM

Country	Question / Option	Code	Documentation
HUNGARY	SQ2S-22O	D	We have a quiz or oral test

Section 4: Eighth Grade – Student Questionnaire

- / SQ2S-23

Question:

Are you studying physics in school this year?

1 = Yes

2 = No

Variable Name(s): BS4PPHY

Country	Question / Option	Code	Documentation
SLOVENIA	SQ2S-23	D	Gang punched to "Yes"

- / SQ2S-25A-D

Question:

How much do you agree with these statements about physics?

A: I think learning physics will help me in my daily life

B: I need physics to learn other school subjects

C: I need to do well in physics to get into the <university> of my choice

D: I need to do well in physics to get the job I want

1 = Agree a lot

2 = Agree a little

3 = Disagree a little

4 = Disagree a lot

(Corresponding question about the general science included in SQ2-12A-D)

Variable Name(s): BS4PAHDL, BS4PAOSS, BS4PAUNI, BS4PAGET

Country	Question / Option	Code	Documentation
SLOVENIA	SQ2S-25C	D	I need to do well in physics to get into the secondary school of my choice

- / SQ2S-26A-P**Question:**

How often do you do these things in your physics lessons?

- A: We make observations and describe what we see
- B: We watch the teacher demonstrate an experiment or investigation
- C: We design or plan an experiment or investigation
- D: We conduct an experiment or investigation
- E: We work in small groups on an experiment or investigation
- F: We read our physics textbooks and other resource materials
- G: We memorize science facts and principles
- H: We use scientific formulas and laws to solve problems
- I: We give explanations about what we are studying
- J: We relate what we are learning in physics to our daily lives
- K: We review our homework
- L: We listen to the teacher give a lecture-style presentation
- M: We work problems on our own
- N: We begin our homework in class
- O: We have a quiz or test
- P: We use computers
 - 1 = Every or almost every lesson
 - 2 = About half the lesson
 - 3 = Some lessons
 - 4 = Never

(Corresponding question about the general science included in SQ2-13A-P)

Variable Name(s): BS4PHOBS, BS4PHDEI, BS4PHPEI, BS4PHCEI, BS4PHWGO, BS4PHTEX, BS4PHFAP, BS4PHLAW, BS4PHEOS, BS4PHMDL, BS4PHROH, BS4PHLSP, BS4PHWPO, BS4PHBHC, BS4PHHQT, BS4PHCOM

Country	Question / Option	Code	Documentation
HUNGARY	SQ2S-26O	D	We have a quiz or oral test

- / SQ2S-31AA-AE**Question:**

How often does your teacher give you homework in each of the following subjects?

- A: Mathematics
- B: Biology
- C: Earth science
- D: Chemistry
- E: Physics
 - 1 = Every day
 - 2 = 3 or 4 times a week
 - 3 = 1 or 2 times a week
 - 4 = Less than once a week
 - 5 = Never

Variable Name(s): BS4MOHWG, BS4BOHWG, BS4EOHWG, BS4COHWG, BS4POHWG

Country	Question / Option	Code	Documentation
LEBANON	SQ2S-31AB	D	Life and earth sciences
LEBANON	SQ2S-31AC	X	Option not administered or data not available

Section 4: Eighth Grade – Student Questionnaire

- / SQ2S-31BA-BE

Question:

When your teacher gives you homework in each of the following subjects, about how many minutes do you usually spend on your homework?

A: Mathematics

B: Biology

C: Earth science

D: Chemistry

E: Physics

1 = Zero minutes

2 = 1-15 minutes

3 = 15-30 minutes

4 = 31-60 minutes

5 = 61-90 minutes

6 = More than 90 minutes

Variable Name(s): BS4MSHWM, BS4BSHWM, BS4ESHWM, BS4CSHWM, BS4PSHWM

Country	Question / Option	Code	Documentation
LEBANON	SQ2S-31BB	D	Life and earth sciences
LEBANON	SQ2S-31BC	X	Option not administered or data not available

ITLANG**Question:**

LANGUAGE OF TEST

Variable Name(s): ITLANG

Country	Question / Option	Code	Documentation
ALGERIA	ITLANG	D	1 = Arabic
ARMENIA	ITLANG	D	1 = Armenian
AUSTRALIA	ITLANG	D	1 = English
BAHRAIN	ITLANG	D	1 = Arabic 2 = English
BASQUE COUNTRY, SPAIN	ITLANG	D	1 = Spanish 2 = Basque
BOSNIA AND HERZEGOVINA	ITLANG	D	1 = Bosnian 2 = Croatian 3 = Serbian
BOTSWANA	ITLANG	D	1 = English
BRITISH COLUMBIA, CANADA	ITLANG	D	1 = English 2 = French
BULGARIA	ITLANG	D	1 = Bulgarian
CHINESE TAIPEI	ITLANG	D	1 = Traditional Chinese
COLOMBIA	ITLANG	D	1 = Spanish
CYPRUS	ITLANG	D	1 = Greek
CZECH REPUBLIC	ITLANG	D	1 = Czech
DUBAI, UAE	ITLANG	D	1 = Arabic 2 = English
EGYPT	ITLANG	D	1 = Arabic 2 = English
EL SALVADOR	ITLANG	D	1 = Spanish
ENGLAND	ITLANG	D	1 = English
GEORGIA	ITLANG	D	1 = Georgian
GHANA	ITLANG	D	1 = English
HONG KONG SAR	ITLANG	D	1 = Modern Standard Chinese and English
HUNGARY	ITLANG	D	1 = Hungarian
INDONESIA	ITLANG	D	1 = Bahasa Indonesian
IRAN, ISLAMIC REP. OF	ITLANG	D	1 = Farsi
ISRAEL	ITLANG	D	1 = Hebrew 2 = Arabic
ITALY	ITLANG	D	1 = Italian
JAPAN	ITLANG	D	1 = Japanese
JORDAN	ITLANG	D	1 = Arabic
KOREA, REP. OF	ITLANG	D	1 = Korean
KUWAIT	ITLANG	D	1 = Arabic
LEBANON	ITLANG	D	1 = English 2 = French
LITHUANIA	ITLANG	D	1 = Lithuanian
MALAYSIA	ITLANG	D	1 = Malay and English

Section 4: Eighth Grade – Student Questionnaire

MALTA	ITLANG	D	1 = English
MASSACHUSETTS, US	ITLANG	D	1 = English
MINNESOTA, US	ITLANG	D	1 = English
MOROCCO	ITLANG	D	1 = Arabic
NORWAY	ITLANG	D	1 = Norwegian
OMAN	ITLANG	D	1 = Arabic 2 = English
ONTARIO, CANADA	ITLANG	D	1 = English 2 = French
PALESTINIAN NAT'L AUTH.	ITLANG	D	1 = Arabic
QATAR	ITLANG	D	1 = Arabic 2 = English
QUEBEC, CANADA	ITLANG	D	1 = English 2 = French
ROMANIA	ITLANG	D	1 = Romanian 2 = Hungarian
RUSSIAN FEDERATION	ITLANG	D	1 = Russian
SAUDI ARABIA	ITLANG	D	1 = Arabic
SCOTLAND	ITLANG	D	1 = English
SERBIA	ITLANG	D	1 = Serbian
SINGAPORE	ITLANG	D	1 = English
SLOVENIA	ITLANG	D	1 = Slovene
SWEDEN	ITLANG	D	1 = Swedish
SYRIAN ARAB REPUBLIC	ITLANG	D	1 = Arabic
THAILAND	ITLANG	D	1 = Thai
TUNISIA	ITLANG	D	1 = Arabic
TURKEY	ITLANG	D	1 = Turkish
UKRAINE	ITLANG	D	1 = Ukrainian 2 = Russian
UNITED STATES	ITLANG	D	1 = English

**Eighth Grade
Mathematics Teacher
Questionnaire**

Section 5

TQM2-03

Question:

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

Variable Name(s): BT4GTAUT

Country	Question / Option	Code	Documentation
MASSACHUSETTS, US	TQM2-03	D	Stem of the question changed: By the end of this school year, how many years will you have been teaching altogether? Do not include substitute or student teaching. 3A = Number of years you have taught full-time 3B = Number of years you have taught part-time National options recoded to fit international question: Calculated number of years taught full-time plus number of years taught part-time
MINNESOTA, US	TQM2-03	D	Stem of the question changed: By the end of this school year, how many years will you have been teaching altogether? Do not include substitute or student teaching. 3A = Number of years you have taught full-time 3B = Number of years you have taught part-time National options recoded to fit international question: Calculated number of years taught full-time plus number of years taught part-time
UNITED STATES	TQM2-03	D	Stem of the question changed: By the end of this school year, how many years will you have been teaching altogether? Do not include substitute or student teaching. 3A = Number of years you have taught full-time 3B = Number of years you have taught part-time National options recoded to fit international question: Calculated number of years taught full-time plus number of years taught part-time

Section 5: Eighth Grade – Mathematics Teacher Questionnaire

TQM2-04

Question:

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

1 = Did not complete <ISCED 3>

2 = Finished <ISCED 3>

3 = Finished <ISCED 4>

4 = Finished <ISCED 5B>

5 = Finished <ISCED 5A, first degree>

6 = Finished <ISCED 5A, second degree> or higher

Variable Name(s): BT4GFEDC

Country	Question / Option	Code	Documentation
ALGERIA	TQM2-04	D	Nationally defined options: 1 = Did not complete secondary schooling 2 = Secondary schooling 3 = Technician certificate 4 = High-level technician diploma / Applied higher education diploma / ITE 5 = Diploma, Bachelor of Arts 6 = Postgraduate or higher degree
ARMENIA	TQM2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary school 2 = Secondary school 3 = Secondary professional college 4 = Option not administered or data not available 5 = Higher general 6 = Higher professional / Ph.D. or Doctor of Science
AUSTRALIA	TQM2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary school 2 = Secondary school 3 = TAFE training certificate (e.g., hairdressing or bricklaying) 4 = TAFE or college diploma (e.g., Diploma in Information Technology, Diploma in Veterinary Nursing) 5 = Bachelor's degree 6 = Postgraduate or graduate diploma (e.g., Diploma of Education) / Master's degree or higher
BAHRAIN	TQM2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary 2 = Secondary 3 = Diploma 4 = Option not administered or data not available 5 = Bachelor's degree 6 = Master's degree or higher
BASQUE COUNTRY, SPAIN	TQM2-04	D	National options recoded to fit international categories: 1 = Option not administered or data not available 2 = Option not administered or data not available 3 = Option not administered or data not available 4 = Option not administered or data not available 5 = Bachelor's degree 6 = University qualification higher than bachelor's degree
BOSNIA AND HERZEGOVINA	TQM2-04	D	Nationally defined options: 1 = Did not complete secondary vocational school 2 = Secondary vocational school 3 = Gymnasium 4 = Higher school 5 = Faculty 6 = Specialization, M.A. degree, or doctorate

Section 5: Eighth Grade – Mathematics Teacher Questionnaire

BOTSWANA	TQM2-04	D	Nationally defined options: 1 = Did not complete senior secondary education 2 = Senior secondary education 3 = Vocational/Technical Certificate 4 = Diploma 5 = First degree 6 = Master's degree or higher
BRITISH COLUMBIA, CANADA	TQM2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary school 2 = Secondary school 3 = College, CEGEP 4 = Option not administered or data not available 5 = University, first degree 6 = University, second or higher degree
BULGARIA	TQM2-04	D	Nationally defined options: 1 = Did not complete secondary education 2 = Secondary education 3 = Secondary vocational education 4 = College education 5 = Higher education, bachelor's degree 6 = Higher education, master's or higher degree
CHINESE TAIPEI	TQM2-04	D	Nationally defined options: 1 = Did not finish senior high school, vocational school, or equivalent level 2 = Teacher school, senior high school, vocational school 3 = Junior teacher college, junior college (2-year or 5-year system) 4 = College of technology (2-year system) 5 = University or college (including 4-year Institute of Technology) 6 = Master's degree or Ph.D.
COLOMBIA	TQM2-04	D	National options recoded to fit international categories: 1 = Did not complete high school (grades 10-11) 2 = High school (grades 10-11) 3 = Technical college 4 = Option not administered or data not available 5 = Bachelor's degree 6 = Master's degree / Ph.D.
CYPRUS	TQM2-04	D	National options recoded to fit international categories: 1 = Option not administered or data not available 2 = Option not administered or data not available 3 = Option not administered or data not available 4 = Option not administered or data not available 5 = University 6 = University, second degree, or postgraduate degree
CZECH REPUBLIC	TQM2-04	D	Nationally defined options: 1 = Did not complete secondary school 2 = Secondary school 3 = Extension study (postsecondary, nontertiary level) 4 = Higher professional school or conservatory 5 = Bachelor's degree 6 = Master's or higher degree
DUBAI, UAE	TQM2-04	D	Nationally defined options: 1 = Did not complete secondary education 2 = Secondary education 3 = Diploma (nontertiary education) 4 = Higher diploma (tertiary education) 5 = Bachelor's degree 6 = Postuniversity degree (data available only for the Arabic questionnaires)
EGYPT	TQM2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary school or equivalent 2 = Secondary school 3 = 2 years after secondary school 4 = Option not administered or data not available 5 = University 6 = Postuniversity diploma / Master's degree or Ph.D.

Section 5: Eighth Grade – Mathematics Teacher Questionnaire

EL SALVADOR	TQM2-04	D	Nationally defined options: 1 = Did not complete secondary education 2 = Secondary education 3 = Postsecondary (technical) 4 = Undergraduate technical degree 5 = Undergraduate degree 6 = Postgraduate degree
ENGLAND	TQM2-04	D	Nationally defined options: 1 = Did not complete A levels or equivalent 2 = A levels or equivalent 3 = Access course for higher education 4 = HNC, HND, or Certificate of Education 5 = Bachelor's degree 6 = Postgraduate degree
GEORGIA	TQM2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary education 2 = Secondary education 3 = Option not administered or data not available 4 = Option not administered or data not available 5 = Bachelor's degree 6 = 5 years tertiary education diploma / Master's degree / Scientific degree (Ph.D.)
GHANA	TQM2-04	D	Nationally defined options: 1 = Did not complete senior secondary school 2 = Senior secondary school 3 = Postsecondary (Teacher Training College) 4 = National diploma (HND) 5 = First degree 6 = Second or higher degree
HONG KONG SAR	TQM2-04	D	Nationally defined options: 1 = Did not complete secondary 2 = Secondary only 3 = Secondary and vocational training 4 = Secondary and completed certificate, diploma, or associate's degree 5 = Bachelor's degree or equivalent 6 = Master's or above degree
HUNGARY	TQM2-04	X	Question not administered or data not available
INDONESIA	TQM2-04	D	Nationally defined options: 1 = Did not complete senior high school 2 = Senior high school 3 = Diploma 1 or Diploma 2 4 = Diploma 3/Diploma 4/Academy 5 = Bachelor's degree 6 = Master's degree or higher
IRAN, ISLAMIC REP. OF	TQM2-04	D	Nationally defined options: 1 = Did not complete high school 2 = High school 3 = College 4 = Associate's degree in technical subjects or in theoretical subjects 5 = First degree 6 = Master's degree or higher
ISRAEL	TQM2-04	D	National options recoded to fit international categories: 1 = Did not finish high school (secondary) 2 = High school (secondary) 3 = 2 years after high school 4 = Option not administered or data not available 5 = Academic professional studies (i.e., B.Ed.) / First degree at university 6 = Second or above degrees at university

Section 5: Eighth Grade – Mathematics Teacher Questionnaire

ITALY	TQM2-04	D	National options recoded to fit international categories: 1 = Option not administered or data not available 2 = Secondary school 3 = A professional training course after secondary school (e.g., technical-scientific instruction and training) 4 = Postsecondary school courses or higher diploma (Physical Education Institute, Institute of Fine Arts, Conservatory) 5 = University 6 = Specialization school, postgraduate course, master's degree, or Ph.D.
JAPAN	TQM2-04	D	Nationally defined options: 1 = Did not complete upper secondary school 2 = Upper secondary school 3 = Junior college 4 = Specific college (e.g., the Meteorological College, National Defense Academy) 5 = University or college 6 = Graduate school or higher
JORDAN	TQM2-04	D	National options recoded to fit international categories: 1 = Did not complete final stage of secondary school education 2 = Final stage of secondary school education 3 = Community college diploma (2-year program) / Community college diploma (3-year program) 4 = Option not administered or data not available 5 = First university degree 6 = Second university degree or higher
KOREA, REP. OF	TQM2-04	D	National options recoded to fit international categories: 1 = Did not complete the high school 2 = High school 3 = Option not administered or data not available 4 = Junior college 5 = University 6 = Graduate school
KUWAIT	TQM2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary school 2 = Secondary school 3 = Diploma (2 years after secondary school) 4 = Option not administered or data not available 5 = Bachelor's degree 6 = Master's degree, first level / Ph.D., second level
LEBANON	TQM2-04	D	National options recoded to fit international categories: 1 = Option not administered or data not available 2 = Secondary + 1 or 2 years teacher training / Secondary + 3 or 4 years teacher training 3 = Option not administered or data not available 4 = Option not administered or data not available 5 = B.A. or equivalent + no teacher training / B.A. or equivalent + teacher training 6 = M.A. / Ph.D. + no teacher training / M.A. / Ph.D. + teacher training
LITHUANIA	TQM2-04	D	Nationally defined options: 1 = Did not complete secondary education 2 = Secondary education 3 = Further postsecondary education 4 = Higher nonuniversity education 5 = Bachelor's degree 6 = Master's degree (or equivalent) or higher degree
MALAYSIA	TQM2-04	D	Nationally defined options: 1 = Did not complete upper secondary 2 = Upper secondary 3 = Postsecondary but nontertiary 4 = Diploma but not in education 5 = First degree 6 = Second degree or higher

Section 5: Eighth Grade – Mathematics Teacher Questionnaire

MALTA	TQM2-04	D	Nationally defined options: 1 = Did not complete upper secondary education (advanced level, certificate course at Technical Institute, ITS, or MCAST) 2 = Upper secondary education (advanced level, certificate course at Technical Institute, ITS, or MCAST) 3 = Diploma course at Technical Institute, MCAST, or ITS 4 = University diploma course 5 = First degree 6 = Second degree or higher
MASSACHUSETTS, US	TQM2-04	D	National options recoded to fit international categories: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (A.A.) in a vocational/technical program 5 = Academic associate's or bachelor's degree 6 = Academic master's degree, postgraduate certificate program (e.g., teaching), or first professional degree (e.g., law, medicine, dentistry) / Doctorate (Ph.D. or Ed.D.)
MINNESOTA, US	TQM2-04	D	National options recoded to fit international categories: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (A.A.) in a vocational/technical program 5 = Academic associate's or bachelor's degree 6 = Academic master's degree, postgraduate certificate program (e.g., teaching), or first professional degree (e.g., law, medicine, dentistry) / Doctorate (Ph.D. or Ed.D.)
MOROCCO	TQM2-04	D	National options recoded to fit international categories: 1 = Did not finish baccalaureat diploma 2 = Baccalaureat diploma 3 = Option not administered or data not available 4 = General academic studies diploma 5 = License diploma 6 = Postgraduate diploma / Ph.D.
NORWAY	TQM2-04	D	National options recoded to fit international categories: 1 = Primary and lower secondary school 2 = Upper secondary school 3 = Option not administered or data not available 4 = Teacher college 5 = Candidates' examination, lower degree with pedagogy from university 6 = Candidates' examination, higher degree with pedagogy from university
OMAN	TQM2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary education 2 = Secondary education 3 = Teacher institute (secondary level) / Intermediate diploma 4 = Option not administered or data not available 5 = Bachelor's degree 6 = Master's degree or higher
ONTARIO, CANADA	TQM2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary school 2 = Secondary school 3 = College, CEGEP 4 = Option not administered or data not available 5 = University, first degree 6 = University, second or higher degree

Section 5: Eighth Grade – Mathematics Teacher Questionnaire

PALESTINIAN NAT'L AUTH.	TQM2-04	D	National options recoded to fit international categories: 1 = Did not complete general secondary stage certificate 2 = General secondary stage certificate 3 = 2 years after school (diploma) / 3 years after school (diploma) 4 = Option not administered or data not available 5 = Bachelor's degree 6 = Master's degree or higher
QATAR	TQM2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary education 2 = Secondary education 3 = Nontertiary institute / Tertiary institute 4 = Option not administered or data not available 5 = University 6 = Postuniversity
QUEBEC, CANADA	TQM2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary school 2 = Secondary school 3 = College, CEGEP 4 = Option not administered or data not available 5 = University, first degree 6 = University, second or higher degree
ROMANIA	TQM2-04	D	Nationally defined options: 1 = Did not complete upper secondary 2 = Upper secondary 3 = Postsecondary education 4 = College 5 = University 6 = Post-tertiary education
RUSSIAN FEDERATION	TQM2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary education 2 = Secondary general education 3 = Secondary professional education 4 = Option not administered or data not available 5 = Higher education, 4 years 6 = Higher education, 5-6 years / Second higher education or Ph.D.
SAUDI ARABIA	TQM2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary education 2 = Secondary education 3 = Diploma, not university 4 = Option not administered or data not available 5 = Bachelor's degree 6 = Master's degree / Ph.D.
SCOTLAND	TQM2-04	D	National options recoded to fit international categories: 1 = Option not administered or data not available 2 = Option not administered or data not available 3 = Option not administered or data not available 4 = Option not administered or data not available 5 = First degree 6 = Postgraduate degree
SERBIA	TQM2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary vocational school 2 = Secondary vocational school / Gymnasium 3 = Option not administered or data not available 4 = Higher school 5 = Faculty 6 = Specialization, M.A., or Ph.D.
SINGAPORE	TQM2-04	D	Nationally defined options: 1 = Did not complete upper secondary education 2 = Upper secondary education 3 = Postsecondary nontertiary (e.g., JC/ Pre-U/ ITE) 4 = Diploma (e.g., Polytechnic) 5 = University (first degree) 6 = University (master's degree) or higher

Section 5: Eighth Grade – Mathematics Teacher Questionnaire

SLOVENIA	TQM2-04	D	Nationally defined options: 1 = Did not complete secondary school 2 = Secondary school 3 = Vocational courses after secondary school 4 = 2 to 3 years of university studies (called higher studies) 5 = 4 years of university studies 6 = Master's degree or Ph.D.
SWEDEN	TQM2-04	D	Nationally defined options: 1 = Did not complete upper secondary school 2 = Upper secondary school 3 = Postsecondary nontertiary education 4 = University certificate (at least 80p, less than 120p), 2-3 years 5 = University degree (120-160p), at least 3 years 6 = University degree (160p or higher)
SYRIAN ARAB REPUBLIC	TQM2-04	D	Nationally defined options: 1 = Did not complete secondary education 2 = Secondary education 3 = Postsecondary education, intermediate institutes 4 = Practical bachelor's degree (e.g., general science, engineering, medicine) 5 = Theoretical bachelor's degree (e.g., literature) 6 = Master's degree or higher
THAILAND	TQM2-04	D	National options recoded to fit international categories: 1 = Did not complete upper secondary education or vocational certificate 2 = Upper secondary education or vocational certificate 3 = Diploma or higher vocational certificate 4 = Bachelor's degree (5-year program or longer) 5 = Bachelor's degree 6 = Master's degree or higher
TUNISIA	TQM2-04	D	Nationally defined options: 1 = Did not complete secondary education 2 = Secondary education 3 = Vocational education after higher secondary diploma 4 = First cycle of university 5 = Second cycle of university 6 = Third cycle of university
TURKEY	TQM2-04	D	National options recoded to fit international categories: 1 = Option not administered or data not available 2 = Option not administered or data not available 3 = Option not administered or data not available 4 = First stage of tertiary education (2 or 3 years) 5 = Tertiary education (first degree, B.A.) 6 = Tertiary education (second degree, M.S./M.A., Ph.D.)
UKRAINE	TQM2-04	D	Nationally defined options: 1 = Did not complete secondary education 2 = Secondary education 3 = Secondary vocational education 4 = College education 5 = Higher education, bachelor's degree 6 = Higher education, master's or higher degree
UNITED STATES	TQM2-04	D	National options recoded to fit international categories: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (A.A.) in a vocational/technical program 5 = Academic associate's or bachelor's degree 6 = Academic master's degree, postgraduate certificate program (e.g., teaching), or first professional degree (e.g., law, medicine, dentistry) / Doctorate (Ph.D. or Ed.D.)

TQM2-05A-F**Question:**

During your <post-secondary> education, what was your major or main area(s) of study?

A: Mathematics

B: Education - Mathematics

C: Science

D: Education - Science

E: Education - General

F: Other

1 = Yes

2 = No

Variable Name(s): BT4MPSMA, BT4MPSEM, BT4SPSSC, BT4SPSED, BT4GPSEG, BT4GPSOT

Country	Question / Option	Code	Documentation
BASQUE COUNTRY, SPAIN	TQM2-05A-F	D	Stem of the question changed: During your university education, what was your major or main area(s) of interest?
BOSNIA AND HERZEGOVINA	TQM2-05A-F	D	Stem of the question changed: Which was your main subject or main domain during your higher education or college education?
BULGARIA	TQM2-05A-F	D	Stem of the question changed: During your college or higher education, what was your major or main area(s) of study?
CHINESE TAIPEI	TQM2-05A-F	D	Stem of the question changed: During the education after you finished secondary school, what was your major or main area(s) of interest?
COLOMBIA	TQM2-05A-F	D	Stem of the question changed: During your teacher formation, what was your major or main area(s) of study?
CYPRUS	TQM2-05A-F	D	Stem of the question changed: During your college or university education, what was your major area of study?
EL SALVADOR	TQM2-05C	D	Science (natural)
EL SALVADOR	TQM2-05D	D	Education - Science (natural)
EL SALVADOR	TQM2-05E	D	Education - General (sciences of education)
GEORGIA	TQM2-05A-F	D	Stem of the question changed: During your higher education what was your major area of interest?
HUNGARY	TQM2-05A-D	D	Stem of the question changed: In which majors have you finished your tertiary education?
HUNGARY	TQM2-05E	D	Stem of the question changed: In which majors have you finished your tertiary education?
HUNGARY	TQM2-05F	D	Primary school teacher (grades 1-4) Stem of the question changed: In which majors have you finished your tertiary education?
ITALY	TQM2-05A	D	Stem of the question changed: In which area of study is your university diploma for teaching?
ITALY	TQM2-05B	X	Option not administered or data not available
ITALY	TQM2-05C	D	Stem of the question changed: Which is the university diploma with which you teach?
ITALY	TQM2-05D	X	Option not administered or data not available
ITALY	TQM2-05E	X	Option not administered or data not available

Section 5: Eighth Grade – Mathematics Teacher Questionnaire

ITALY	TQM2-05F	D	Stem of the question changed: In which area of study is your university diploma for teaching?
KOREA, REP. OF	TQM2-05A-F	D	Stem of the question changed: If you finished university, what was your major or main area of study?
MALTA	TQM2-05A-F	D	Stem of the question changed: During your teacher training education, what was your major or main area(s) of study?
MASSACHUSETTS, US	TQM2-05A-D	D	Stem of the question changed: During your college or university education, what was your major or main area(s) of study?
			National categories recoded to fit international categories: 1 = Major/Minor 2 = No
MASSACHUSETTS, US	TQM2-05E	D	Stem of the question changed: During your college or university education, what was your major or main area(s) of study? Education - Other National categories recoded to fit international categories: 1 = Major/Minor 2 = No
MASSACHUSETTS, US	TQM2-05F	D	Stem of the question changed: During your college or university education, what was your major or main area(s) of study? Education - Secondary / Other National categories recoded to fit international categories: 1 = Major/Minor 2 = No
MINNESOTA, US	TQM2-05A-D	D	Stem of the question changed: During your college or university education, what was your major or main area(s) of study? National categories recoded to fit international categories: 1 = Major/Minor 2 = No
MINNESOTA, US	TQM2-05E	D	Stem of the question changed: During your college or university education, what was your major or main area(s) of study? Education - Other National categories recoded to fit international categories: 1 = Major/Minor 2 = No
MINNESOTA, US	TQM2-05F	D	Stem of the question changed: During your college or university education, what was your major or main area(s) of study? Education - Secondary / Other National categories recoded to fit international categories: 1 = Major/Minor 2 = No
NORWAY	TQM2-05A-B	D	Stem of the question changed: If you have finished a lower degree or more from university, in which topics do you have 20 or more study points?
NORWAY	TQM2-05C	D	Stem of the question changed: If you have finished a lower degree or more from university, in which topics do you have 20 or more study points?
			Biology / Physics / Chemistry / Geoscience

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NORWAY	TQM2-05D-F	D	Stem of the question changed: If you have finished a lower degree or more from university, in which topics do you have 20 or more study points?
ROMANIA	TQM2-05A-F	D	Stem of the question changed: During your university education, what was your major or main area(s) of study?
SERBIA	TQM2-05A-F	D	Stem of the question changed: What was your main subject or domain during your high education or college education?
THAILAND	TQM2-05A-F	D	Stem of the question changed: During your tertiary education, what was your major or main area(s) of study?
TUNISIA	TQM2-05A-F	D	Stem of the question changed: During your university studies, what was your major or main area(s) of study?
TURKEY	TQM2-05A-F	D	Stem of the question changed: During your tertiary education, what was your major or main area(s) of study?
UKRAINE	TQM2-05A-F	D	Stem of the question changed: During your higher education (college), what was your main specialization (preparation course)?
UNITED STATES	TQM2-05A-D	D	Stem of the question changed: During your college or university education, what was your major or main area(s) of study? National categories recoded to fit international categories: 1 = Major/Minor 2 = No
UNITED STATES	TQM2-05E	D	Stem of the question changed: During your college or university education, what was your major or main area(s) of study? Education - Other National categories recoded to fit international categories: 1 = Major/Minor 2 = No
UNITED STATES	TQM2-05F	D	Stem of the question changed: During your college or university education, what was your major or main area(s) of study? Education - Secondary / Other National categories recoded to fit international categories: 1 = Major/Minor 2 = No

Section 5: Eighth Grade – Mathematics Teacher Questionnaire

TQM2-06

Question:

Do you have a teaching license or certificate?
 1 = Yes
 2 = No

Variable Name(s): BT4GTLCE

Country	Question / Option	Code	Documentation
AUSTRALIA	TQM2-06	D	Stem of the question changed: Do you have a teaching registration or approval to teach from a government education department?
BASQUE COUNTRY, SPAIN	TQM2-06	X	Question not administered or data not available
BOTSWANA	TQM2-06	D	Stem of the question changed: Do you have a teaching certificate?
COLOMBIA	TQM2-06	X	Question not administered or data not available
GHANA	TQM2-06	D	Stem of the question changed: Do you have a teaching certificate and registration number?
HUNGARY	TQM2-06	X	Question not administered or data not available
MALTA	TQM2-06	D	Stem of the question changed: Do you hold a permanent teaching warrant?
SAUDI ARABIA	TQM2-06	X	Question not administered or data not available
SCOTLAND	TQM2-06	D	Gang punched to "Yes"
SWEDEN	TQM2-06	D	Stem of the question changed: Do you have a teaching qualification?

TQM2-07AA-AE

Question:

How well prepared do you feel you are to teach the following topics?
 A: Computing, estimating or approximating with whole numbers
 B: Representing decimals and fractions using words, numbers, or models (including number lines)
 C: Computing with fractions and decimals
 D: Representing, comparing, ordering, and computing with integers
 E: Problem solving involving percents and proportions
 1 = Not applicable
 2 = Very well prepared
 3 = Somewhat prepared
 4 = Not well prepared

Variable Name(s): BT4MTT01, BT4MTT02, BT4MTT03, BT4MTT04, BT4MTT05

Country	Question / Option	Code	Documentation
HUNGARY	TQM2-07AA-AE	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
OMAN	TQM2-07AA	D	Computing, estimating, or approximating with natural numbers
RUSSIAN FEDERATION	TQM2-07AA-AE	X	Question not administered or data not available

TQM2-07BA-BD**Question:**

How well prepared do you feel you are to teach the following topics?

A: Numeric, algebraic, and geometric patterns or sequences (extension, missing terms, generalization of patterns)

B: Simplifying and evaluating the algebraic expressions

C: Simple linear equations and inequalities, and simultaneous (two variables) equations

D: Equivalent representations of functions as ordered pairs, tables, graphs, words, or equations

1 = Not applicable

2 = Very well prepared

3 = Somewhat prepared

4 = Not well prepared

Variable Name(s): BT4MTT06, BT4MTT07, BT4MTT08, BT4MTT09

Country	Question / Option	Code	Documentation
HUNGARY	TQM2-07BA-BD	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
RUSSIAN FEDERATION	TQM2-07BA-BD	X	Question not administered or data not available

TQM2-07CA-CF**Question:**

How well prepared do you feel you are to teach the following topics?

A: Geometric properties of angles and geometric shapes (triangles, quadrilaterals, and other common polygons)

B: Congruent figures and similar triangles

C: Relationship between three-dimensional shapes and their two-dimensional representation

D: Using appropriate measurement formulas for perimeters, circumferences, areas of circles, surface areas and volumes

E: Cartesian plane - ordered pairs, equations, intercepts, intersections, and gradient

F: Translation, reflection, and rotation

1 = Not applicable

2 = Very well prepared

3 = Somewhat prepared

4 = Not well prepared

Variable Name(s): BT4MTT10, BT4MTT11, BT4MTT12, BT4MTT13, BT4MTT14, BT4MTT15

Country	Question / Option	Code	Documentation
HUNGARY	TQM2-07CA-CF	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
RUSSIAN FEDERATION	TQM2-07CA-CF	X	Question not administered or data not available

Section 5: Eighth Grade – Mathematics Teacher Questionnaire

TQM2-07DA-DC

Question:

How well prepared do you feel you are to teach the following topics?

A: Reading and displaying data using tables, pictographs, bar graphs, pie charts, and line graphs

B: Interpreting data sets (e.g., draw conclusions, make predictions, and estimate values between and beyond given data points)

C: Judging, predicting, and determining the chances of possible outcomes

1 = Not applicable

2 = Very well prepared

3 = Somewhat prepared

4 = Not well prepared

Variable Name(s): BT4MTT16, BT4MTT17 ,BT4MTT18

Country	Question / Option	Code	Documentation
HUNGARY	TQM2-07DA-DC	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
RUSSIAN FEDERATION	TQM2-07DA-DC	X	Question not administered or data not available

TQM2-11A-C

Question:

In your current school, how severe is each problem?

A: The school building needs significant repair

B: Classrooms are overcrowded

C: Teachers do not have adequate workspace outside their classroom

1 = Not a problem

2 = Minor Problem

3 = Serious problem

Variable Name(s): BT4GSPBR, BT4GSPCO, BT4GSPWO

Country	Question / Option	Code	Documentation
SAUDI ARABIA	TQM2-11A-C	X	Question not administered or data not available

TQM2-13

Question:

How many students are in the TIMSS class?

Variable Name(s): BT4MSTUD

Country	Question / Option	Code	Documentation
SWEDEN	TQM2-13	D	Stem of the question changed: How many students are in the TIMSS class? (Write the number of students that are taught in the group, regardless of whether they participate or do not participate in TIMSS.)

TQM2-15A-B**Question:**

A: Do you use a textbook(s) in teaching mathematics to the TIMSS class?

1 = Yes

2 = No

B: How do you use a textbook(s) in teaching mathematics to the TIMSS class?

1 = As the primary basis for my lessons

2 = As a supplementary resource

Variable Name(s): BT4MTBTC, BT4MTXBU

Country	Question / Option	Code	Documentation
ENGLAND	TQM2-15A	D	Stem of the question changed: Do you use textbooks or commercially produced schemes in teaching mathematics to the TIMSS class?
ENGLAND	TQM2-15B	D	Stem of the question changed: How do you use textbooks or commercially produced schemes in teaching mathematics to the TIMSS class?
SCOTLAND	TQM2-15A	D	Stem of the question changed: Do you use textbooks or commercially produced schemes in teaching mathematics to the TIMSS class?
SCOTLAND	TQM2-15B	D	Stem of the question changed: How do you use textbooks or commercially produced schemes in teaching mathematics to the TIMSS class?

TQM2-16A-H**Question:**

In a typical week of mathematics lessons for the TIMSS class, what percentage of time do students spend on each of the following activities?

A: Reviewing homework

B: Listening to lecture-style presentations

C: Working problems with your guidance

D: Working problems on their own without your guidance

E: Listening to you re-teach and clarify content/procedures

F: Taking tests or quizzes

G: Participating in classroom management tasks not related to the lesson's content/purpose (e.g., interruptions and keeping order)

H: Other student activities

Variable Name(s): BT4MPTRH, BT4MPTLS, BT4MPTYG, BT4MPTOO, BT4MPTRT, BT4MPTTQ, BT4MPTCM, BT4MPTOA

Country	Question / Option	Code	Documentation
HUNGARY	TQM2-16F	D	Taking tests or oral questioning

Section 5: Eighth Grade – Mathematics Teacher Questionnaire

TQM2-19A-E

Question:

By the end of this school year, approximately what percentage of teaching time will you have spent during this school year on each of the following mathematics content areas for the TIMSS class?

- A: Number (e.g., whole numbers, fractions, decimals, ratio, proportion and percent)
- B: Algebra (e.g., patterns, equations, formulas and relationships)
- C: Geometry (e.g., lines and angles, shapes, congruence and similarity, spatial relationships, symmetry and transformations)
- D: Data and Chance (e.g., reading, organizing and representing data, data interpretation and chance)
- E: Other, please specify:

Variable Name(s): BT4MCNUM, BT4MCALG, BT4MCGEO, BT4MCDAT, BT4MCOTH

Country	Question / Option	Code	Documentation
OMAN	TQM2-19A	D	Number (e.g., natural numbers, fractions, decimals, ratio, proportion and percent)

TQM2-20AA-AJ

Question:

The following list includes the main topics addressed by the TIMSS mathematics test. Choose the response that best describes when students in the TIMSS class have been taught each topic. If a topic was taught half this year but not yet completed, please choose "Mostly taught this year." If a topic is not in the curriculum, please choose "Not yet taught or just introduced."

- A: Whole numbers including place value, factorization, and the four operations
 - B: Computations, estimations, or approximations involving whole numbers
 - C: Common fractions including equivalent fractions and ordering of fractions
 - D: Decimal including place value, ordering, and converting to common fractions (and vice versa)
 - E: Representing decimals and fractions using words, numbers, or models (including number lines)
 - F: Computations with fractions
 - G: Computations with decimals
 - H: Representing, comparing, ordering, and computing with integers
 - I: Ratios (equivalence, division of a quantity by a given ratio)
 - J: Conversion of percents to fractions or decimals and vice versa
- 1 = Mostly taught before this year
 2 = Mostly taught this year
 3 = Not yet taught or just introduced

Variable Name(s): BT4MTP01, BT4MTP02, BT4MTP03, BT4MTP04, BT4MTP05, BT4MTP06, BT4MTP07, BT4MTP08, BT4MTP09, BT4MTP10

Country	Question / Option	Code	Documentation
OMAN	TQM2-20AA	D	Natural numbers including place value, factorization, and the four operations
OMAN	TQM2-20AB	D	Computations, estimations, or approximations involving natural numbers
RUSSIAN FEDERATION	TQM2-20AA-AJ	X	Question not administered or data not available

TQM2-20BA-BH

Question:

The following list includes the main topics addressed by the TIMSS mathematics test. Choose the response that best describes when students in the TIMSS class have been taught each topic. If a topic was taught half this year but not yet completed, please choose “Mostly taught this year.” If a topic is not in the curriculum, please choose “Not yet taught or just introduced.”

- A: Numeric, algebraic, and geometric patterns or sequences (extension, missing terms, generalization of patterns)
- B: Sums, products, and powers of expressions containing variables
- C: Evaluating expressions for given numeric value
- D: Simplifying or comparing algebraic expressions
- E: Modeling situations using expressions
- F: Evaluating functions/formulas for given values of the variables
- G: Simple linear equations and inequalities, and simultaneous (two variables) equations
- H: Equivalent representations of functions as ordered pairs, tables, graphs, words, or equations
 - 1 = Mostly taught before this year
 - 2 = Mostly taught this year
 - 3 = Not yet taught or just introduced

Variable Name(s): BT4MTP11, BT4MTP12, BT4MTP13, BT4MTP14, BT4MTP15, BT4MTP16, BT4MTP17, BT4MTP18

Country	Question / Option	Code	Documentation
RUSSIAN FEDERATION	TQM2-20BA-BH	X	Question not administered or data not available

TQM2-20CA-CN

Question:

The following list includes the main topics addressed by the TIMSS mathematics test. Choose the response that best describes when students in the TIMSS class have been taught each topic. If a topic was taught half this year but not yet completed, please choose “Mostly taught this year.” If a topic is not in the curriculum, please choose “Not yet taught or just introduced.”

- A: Angles - acute, right, straight, obtuse, reflex
- B: Relationships for angles at a point, angles on a line, vertically opposite angles, angles associated with a transversal cutting parallel lines, and perpendicularity
- C: Properties of geometric shapes: triangles, quadrilaterals, and other common polygons
- D: Construct or draw triangles and rectangles of given dimensions
- E: Congruent figures (triangles, quadrilaterals) and their corresponding measures
- F: Similar triangles and recall their properties
- G: Relationships between two-dimensional and three-dimensional shapes
- H: Pythagorean theorem (not proof) to find length of a side
- I: Measurement, drawing, and estimation of the size of angles, the lengths of lines, areas, and volumes
- J: Measurement formulas for perimeters, circumferences, areas of circles, surface areas, and volumes
- K: Measures of irregular or compound areas (e.g., by covering with grids or dissecting and rearranging pieces)
- L: Cartesian plane - ordered pairs, equations, intercepts, intersections, and gradient
- M: Line and rotational symmetry for two-dimensional shapes
- N: Translation, reflection, and rotation
 - 1 = Mostly taught before this year
 - 2 = Mostly taught this year
 - 3 = Not yet taught or just introduced

Variable Name(s): BT4MTP19, BT4MTP20, BT4MTP21, BT4MTP22, BT4MTP23, BT4MTP24, BT4MTP25, BT4MTP26, BT4MTP27, BT4MTP28, BT4MTP29, BT4MTP30, BT4MTP31, BT4MTP32

Country	Question / Option	Code	Documentation
RUSSIAN FEDERATION	TQM2-20CA-CN	X	Question not administered or data not available

Section 5: Eighth Grade – Mathematics Teacher Questionnaire

TQM2-20DA-DG

Question:

The following list includes the main topics addressed by the TIMSS mathematics test. Choose the response that best describes when students in the TIMSS class have been taught each topic. If a topic was taught half this year but not yet completed, please choose “Mostly taught this year.” If a topic is not in the curriculum, please choose “Not yet taught or just introduced.”

A: Reading data from tables, pictographs, bar graphs, pie charts, and line graphs

B: Organizing and displaying data using tables, pictographs, bar graphs, pie charts, and line graphs

C: Characteristics of data sets including mean, median, range, and shape of distribution (in general terms)

D: Interpreting data sets (e.g., draw conclusions, make predictions, and estimate values between and beyond given data points)

E: Data displays that could lead to misinterpretation (e.g., inappropriate grouping and misleading or distorted scales)

F: Using data from experiments to predict chances of future outcomes

G: Using the chances of a particular outcome to solve problems

1 = Mostly taught before this year

2 = Mostly taught this year

3 = Not yet taught or just introduced

Variable Name(s): BT4MTP33, BT4MTP34, BT4MTP35, BT4MTP36, BT4MTP37, BT4MTP38, BT4MTP39

Country	Question / Option	Code	Documentation
RUSSIAN FEDERATION	TQM2-20DA-DG	X	Question not administered or data not available

TQM2-23A-B

Question:

A: Do students in the TIMSS class have computer(s) available to use during their mathematics lessons?

B: Do any of the computer(s) have access to the Internet?

1 = Yes

2 = No

Variable Name(s): BT4MCOMA, BT4MINTA

Country	Question / Option	Code	Documentation
EGYPT	TQM2-23A	X	Question not administered or data not available
EGYPT	TQM2-23B	X	Question not administered or data not available

TQM2-24A-D**Question:**

In teaching mathematics to the TIMSS class, how often do you have students use a computer for the following activities?

A: Discover mathematics principles and concepts

B: Practice skills and procedures

C: Look up ideas and information

D: Process and analyze data

1 = Every or almost every lesson

2 = About half the lessons

3 = Some lessons

4 = Never

Variable Name(s): BT4MCADM, BT4MCASP, BT4MCALI, BT4MCAPA

Country	Question / Option	Code	Documentation
EGYPT	TQM2-24A	X	Question not administered or data not available
EGYPT	TQM2-24B	X	Question not administered or data not available
EGYPT	TQM2-24C	X	Question not administered or data not available
EGYPT	TQM2-24D	X	Question not administered or data not available

TQM2-30A-C**Question:**

How much emphasis do you place on the following sources to monitor students' progress in mathematics?

A: Classroom tests (for example, teacher made or textbook tests)

B: National or regional achievement tests

C: Your professional judgement

1 = Major emphasis

2 = Some emphasis

3 = Little emphasis

4 = No emphasis

Variable Name(s): BT4MEPCT, BT4MEPNA, BT4MEPYJ

Country	Question / Option	Code	Documentation
SWEDEN	TQM2-30B	X	Option not administered or data not available

Section 5: Eighth Grade – Mathematics Teacher Questionnaire

TQM2-31

Question:

How often do you give a mathematics test or examination to the TIMSS class?
 1 = About once a week
 2 = About every two weeks
 3 = About once a month
 4 = A few times a year
 5 = Never

Variable Name(s): BT4MTEEX

Country	Question / Option	Code	Documentation
MASSACHUSETTS, US	TQM2-31	D	Stem of the question changed: How often do you give a mathematics test or examination to the TIMSS class? Do not include quizzes.
MINNESOTA, US	TQM2-31	D	Stem of the question changed: How often do you give a mathematics test or examination to the TIMSS class? Do not include quizzes.
UNITED STATES	TQM2-31	D	Stem of the question changed: How often do you give a mathematics test or examination to the TIMSS class? Do not include quizzes.

TQM2-32

Question:

What item formats do you typically use in your mathematics tests or examinations?
 1 = Only constructed-response
 2 = Mostly constructed-response
 3 = About half constructed-response and half objective (e.g., multiple-choice)
 4 = Mostly objective
 5 = Only objective

Variable Name(s): BT4MWFTU

Country	Question / Option	Code	Documentation
MASSACHUSETTS, US	TQM2-32	D	Stem of the question changed: What item formats do you typically use in your mathematics tests or examinations? Do not include quizzes.
MINNESOTA, US	TQM2-32	D	Stem of the question changed: What item formats do you typically use in your mathematics tests or examinations? Do not include quizzes.
UNITED STATES	TQM2-32	D	Stem of the question changed: What item formats do you typically use in your mathematics tests or examinations? Do not include quizzes.

TQM2-33A-D**Question:**

How often do you include the following types of questions in your mathematics tests or examinations?

A: Questions based on recall of facts and procedures

B: Questions involving application of mathematical procedures

C: Questions involving searching for patterns and relationships

D: Questions requiring explanations or justifications

1 = Always or almost always

2 = Sometimes

3 = Never or almost never

Variable Name(s): BT4MTEQP, BT4MTEAP, BT4MTESP, BT4MTEJU

Country	Question / Option	Code	Documentation
MASSACHUSETTS, US	TQM2-33A-D	D	Stem of the question changed: How often do you include the following types of questions in your mathematics tests or examinations? Do not include quizzes.
MINNESOTA, US	TQM2-33A-D	D	Stem of the question changed: How often do you include the following types of questions in your mathematics tests or examinations? Do not include quizzes.
UNITED STATES	TQM2-33A-D	D	Stem of the question changed: How often do you include the following types of questions in your mathematics tests or examinations? Do not include quizzes.

ITCOURSE**Question:**

TYPE OF COURSE

Variable Name(s): ITCOURSE

Country	Question / Option	Code	Documentation
ALL COUNTRIES	ITCOURSE	D	1 = Mathematics

**Eighth Grade
Science Teacher
Questionnaire**

Section 6

TQS2-03

Question:

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

Variable Name(s): BT4GTAUT

Country	Question / Option	Code	Documentation
MASSACHUSETTS, US	TQS2-03	D	Stem of the question changed: By the end of this school year, how many years will you have been teaching altogether? Do not include substitute or student teaching. 3A = Number of years you have taught full-time 3B = Number of years you have taught part-time National options recoded to fit international question: Calculated number of years taught full-time plus number of years taught part-time
MINNESOTA, US	TQS2-03	D	Stem of the question changed: By the end of this school year, how many years will you have been teaching altogether? Do not include substitute or student teaching. 3A = Number of years you have taught full-time 3B = Number of years you have taught part-time National options recoded to fit international question: Calculated number of years taught full-time plus number of years taught part-time
UNITED STATES	TQS2-03	D	Stem of the question changed: By the end of this school year, how many years will you have been teaching altogether? Do not include substitute or student teaching. 3A = Number of years you have taught full-time 3B = Number of years you have taught part-time National options recoded to fit international question: Calculated number of years taught full-time plus number of years taught part-time

Section 6: Eighth Grade – Science Teacher Questionnaire

TQS2-04

Question:

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

1 = Did not complete <ISCED 3>

2 = Finished <ISCED 3>

3 = Finished <ISCED 4>

4 = Finished <ISCED 5B>

5 = Finished <ISCED 5A, first degree>

6 = Finished <ISCED 5A, second degree> or higher

Variable Name(s): BT4GFEDC

Country	Question / Option	Code	Documentation
ALGERIA	TQS2-04	D	Nationally defined options: 1 = Did not complete secondary schooling 2 = Secondary schooling 3 = Technician certificate 4 = High-level technician diploma / Applied higher education diploma / ITE 5 = Diploma, Bachelor of Arts 6 = Postgraduate or higher degree
ARMENIA	TQS2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary school 2 = Secondary school 3 = Secondary professional college 4 = Option not administered or data not available 5 = Higher general 6 = Higher professional / Ph.D. or Doctor of Science
AUSTRALIA	TQS2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary school 2 = Secondary school 3 = TAFE training certificate (e.g., hairdressing or bricklaying) 4 = TAFE or college diploma (e.g., Diploma in Information Technology, Diploma in Veterinary Nursing) 5 = Bachelor's degree 6 = Postgraduate or graduate diploma (e.g., Diploma of Education) / Master's degree or higher
BAHRAIN	TQS2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary 2 = Secondary 3 = Diploma 4 = Option not administered or data not available 5 = Bachelor's degree 6 = Master's degree or higher
BASQUE COUNTRY, SPAIN	TQS2-04	D	National options recoded to fit international categories: 1 = Option not administered or data not available 2 = Option not administered or data not available 3 = Option not administered or data not available 4 = Option not administered or data not available 5 = Bachelor's degree 6 = University qualification higher than bachelor's degree
BOSNIA AND HERZEGOVINA	TQS2-04	D	Nationally defined options: 1 = Did not complete secondary vocational school 2 = Secondary vocational school 3 = Gymnasium 4 = Higher school 5 = Faculty 6 = Specialization, M.A. degree, or doctorate

Section 6: Eighth Grade – Science Teacher Questionnaire

BOTSWANA	TQS2-04	D	Nationally defined options: 1 = Did not complete senior secondary education 2 = Senior secondary education 3 = Vocational/Technical Certificate 4 = Diploma 5 = First degree 6 = Master's degree or higher
BRITISH COLUMBIA, CANADA	TQS2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary school 2 = Secondary school 3 = College, CEGEP 4 = Option not administered or data not available 5 = University, first degree 6 = University, second or higher degree
BULGARIA	TQS2-04	D	Nationally defined options: 1 = Did not complete secondary education 2 = Secondary education 3 = Secondary vocational education 4 = College education 5 = Higher education, bachelor's degree 6 = Higher education, master's or higher degree
CHINESE TAIPEI	TQS2-04	D	Nationally defined options: 1 = Did not finish senior high school, vocational school, or equivalent level 2 = Teacher school, senior high school, vocational school 3 = Junior teacher college, junior college (2-year or 5-year system) 4 = College of technology (2-year system) 5 = University or college (including 4-year Institute of Technology) 6 = Master's degree or Ph.D.
COLOMBIA	TQS2-04	D	National options recoded to fit international categories: 1 = Did not complete high school (grades 10-11) 2 = High school (grades 10-11) 3 = Technical college 4 = Option not administered or data not available 5 = Bachelor's degree 6 = Master's degree / Ph.D.
CYPRUS	TQS2-04	D	National options recoded to fit international categories: 1 = Option not administered or data not available 2 = Option not administered or data not available 3 = Option not administered or data not available 4 = Option not administered or data not available 5 = University 6 = University, second degree, or postgraduate degree
CZECH REPUBLIC	TQS2-04	D	Nationally defined options: 1 = Did not complete secondary school 2 = Secondary school 3 = Extension study (postsecondary, nontertiary level) 4 = Higher professional school or conservatory 5 = Bachelor's degree 6 = Master's or higher degree
DUBAI, UAE	TQS2-04	D	Nationally defined options: 1 = Did not complete secondary education 2 = Secondary education 3 = Diploma (nontertiary education) 4 = Higher diploma (tertiary education) 5 = Bachelor's degree 6 = Postuniversity degree (data available only for the Arabic questionnaires)
EGYPT	TQS2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary school or equivalent 2 = Secondary school 3 = 2 years after secondary school 4 = Option not administered or data not available 5 = University 6 = Postuniversity diploma / Master's degree or Ph.D.

Section 6: Eighth Grade – Science Teacher Questionnaire

EL SALVADOR	TQS2-04	D	Nationally defined options: 1 = Did not complete secondary education 2 = Secondary education 3 = Postsecondary (technical) 4 = Undergraduate technical degree 5 = Undergraduate degree 6 = Postgraduate degree
ENGLAND	TQS2-04	D	Nationally defined options: 1 = Did not complete A levels or equivalent 2 = A levels or equivalent 3 = Access course for higher education 4 = HNC, HND, or Certificate of Education 5 = Bachelor's degree 6 = Postgraduate degree
GEORGIA	TQS2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary education 2 = Secondary education 3 = Option not administered or data not available 4 = Option not administered or data not available 5 = Bachelor's degree 6 = 5 years tertiary education diploma / Master's degree / Scientific degree (Ph.D.)
GHANA	TQS2-04	D	Nationally defined options: 1 = Did not complete senior secondary school 2 = Senior secondary school 3 = Postsecondary (Teacher Training College) 4 = National diploma (HND) 5 = First degree 6 = Second or higher degree
HONG KONG SAR	TQS2-04	D	Nationally defined options: 1 = Did not complete secondary 2 = Secondary only 3 = Secondary and vocational training 4 = Secondary and completed certificate, diploma, or associate's degree 5 = Bachelor's degree or equivalent 6 = Master's or higher degree
HUNGARY	TQS2-04	X	Question not administered or data not available
INDONESIA	TQS2-04	D	Nationally defined options: 1 = Did not complete senior high school 2 = Senior high school 3 = Diploma 1 or Diploma 2 4 = Diploma 3/Diploma 4/Academy 5 = Bachelor's degree 6 = Master's degree or higher
IRAN, ISLAMIC REP. OF	TQS2-04	D	Nationally defined options: 1 = Did not complete high school 2 = High school 3 = College 4 = Associate's degree in technical subjects or in theoretical subjects 5 = First degree 6 = Master's degree or higher
ISRAEL	TQS2-04	D	National options recoded to fit international categories: 1 = Did not finish high school (secondary) 2 = High school (secondary) 3 = 2 years after high school 4 = Option not administered or data not available 5 = Academic professional studies (i.e., B.Ed.) / First degree at university 6 = Second or above degrees at university

Section 6: Eighth Grade – Science Teacher Questionnaire

ITALY	TQS2-04	D	National options recoded to fit international categories: 1 = Option not administered or data not available 2 = Secondary school 3 = A professional training course after secondary school (e.g., technical-scientific instruction and training) 4 = Postsecondary school courses or higher diploma (Physical Education Institute, Institute of Fine Arts, Conservatory) 5 = University 6 = Specialization school, postgraduate course, master's degree or Ph.D.
JAPAN	TQS2-04	D	Nationally defined options: 1 = Did not complete upper secondary school 2 = Upper secondary school 3 = Junior college 4 = Specific college (e.g., the Meteorological College, National Defense Academy) 5 = University or college 6 = Graduate school or higher
JORDAN	TQS2-04	D	National options recoded to fit international categories: 1 = Did not complete final stage of secondary school education 2 = Final stage of secondary school education 3 = Community college diploma (2-year program) / Community college diploma (3-year program) 4 = Option not administered or data not available 5 = First university degree 6 = Second university degree or higher
KOREA, REP. OF	TQS2-04	D	National options recoded to fit international categories: 1 = Did not complete high school 2 = High school 3 = Option not administered or data not available 4 = Junior college 5 = University 6 = Graduate school
KUWAIT	TQS2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary school 2 = Secondary school 3 = Diploma (2 years after secondary school) 4 = Option not administered or data not available 5 = Bachelor's degree 6 = Master's degree, first level / Ph.D., second level
LEBANON	TQS2-04	D	National options recoded to fit international categories: 1 = Option not administered or data not available 2 = Secondary + 1 or 2 years teacher training / Secondary + 3 or 4 years teacher training 3 = Option not administered or data not available 4 = Option not administered or data not available 5 = B.A. or equivalent + no teacher training / B.A. or equivalent + teacher training 6 = M.A. / Ph.D. + no teacher training / M.A. / Ph.D. + teacher training
LITHUANIA	TQS2-04	D	Nationally defined options: 1 = Did not complete secondary education 2 = Secondary education 3 = Further postsecondary education 4 = Higher nonuniversity education 5 = Bachelor's degree 6 = Master's degree (or equivalent) or higher degree
MALAYSIA	TQS2-04	D	Nationally defined options: 1 = Did not complete upper secondary 2 = Upper secondary 3 = Postsecondary but nontertiary 4 = Diploma but not in education 5 = First degree 6 = Second degree or higher

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MALTA	TQS2-04	D	Nationally defined options: 1 = Did not complete upper secondary education (advanced level, certificate course at Technical Institute, ITS, or MCAST) 2 = Upper secondary education (advanced level, certificate course at Technical Institute, ITS, or MCAST) 3 = Diploma course at Technical Institute, MCAST, or ITS 4 = University diploma course 5 = First degree 6 = Second degree or higher
MASSACHUSETTS, US	TQS2-04	D	National options recoded to fit international categories: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (A.A.) in a vocational/technical program 5 = Academic associate's or bachelor's degree 6 = Academic master's degree, postgraduate certificate program (e.g., teaching), or first professional degree (e.g., law, medicine, dentistry) / Doctorate (Ph.D. or Ed.D.)
MINNESOTA, US	TQS2-04	D	National options recoded to fit international categories: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (A.A.) in a vocational/technical program 5 = Academic associate's or bachelor's degree 6 = Academic master's degree, postgraduate certificate program (e.g., teaching), or first professional degree (e.g., law, medicine, dentistry) / Doctorate (Ph.D. or Ed.D.)
MOROCCO	TQS2-04	D	National options recoded to fit international categories: 1 = Did not finish baccalaureat diploma 2 = Baccalaureat diploma 3 = Option not administered or data not available 4 = General academic studies diploma 5 = License diploma 6 = Postgraduate diploma / Ph.D.
NORWAY	TQS2-04	D	National options recoded to fit international categories: 1 = Primary and lower secondary school 2 = Upper secondary school 3 = Option not administered or data not available 4 = Teacher college 5 = Candidates' examination, lower degree with pedagogy from university 6 = Candidates' examination, higher degree with pedagogy from university
OMAN	TQS2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary education 2 = Secondary education 3 = Teacher institute (secondary level) / Intermediate diploma 4 = Option not administered or data not available 5 = Bachelor's degree 6 = Master's degree or higher
ONTARIO, CANADA	TQS2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary school 2 = Secondary school 3 = College, CEGEP 4 = Option not administered or data not available 5 = University, first degree 6 = University, second or higher degree

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PALESTINIAN NAT'L AUTH.	TQS2-04	D	National options recoded to fit international categories: 1 = Did not complete general secondary stage certificate 2 = General secondary stage certificate 3 = 2 years after school (diploma) / 3 years after school (diploma) 4 = Option not administered or data not available 5 = Bachelor's degree 6 = Master's degree or higher
QATAR	TQS2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary education 2 = Secondary education 3 = Nontertiary institute / Tertiary institute 4 = Option not administered or data not available 5 = University 6 = Postuniversity
QUEBEC, CANADA	TQS2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary school 2 = Secondary school 3 = College, CEGEP 4 = Option not administered or data not available 5 = University, first degree 6 = University, second or higher degree
ROMANIA	TQS2-04	D	Nationally defined options: 1 = Did not complete upper secondary 2 = Upper secondary 3 = Postsecondary education 4 = College 5 = University 6 = Post-tertiary education
RUSSIAN FEDERATION	TQS2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary education 2 = Secondary general education 3 = Secondary professional education 4 = Option not administered or data not available 5 = Higher education, 4 years 6 = Higher education, 5-6 years / Second higher education or Ph.D.
SAUDI ARABIA	TQS2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary education 2 = Secondary education 3 = Diploma, not university 4 = Option not administered or data not available 5 = Bachelor's degree 6 = Master's degree / Ph.D.
SCOTLAND	TQS2-04	D	National options recoded to fit international categories: 1 = Option not administered or data not available 2 = Option not administered or data not available 3 = Option not administered or data not available 4 = Option not administered or data not available 5 = First degree 6 = Postgraduate degree
SERBIA	TQS2-04	D	National options recoded to fit international categories: 1 = Did not complete secondary vocational school 2 = Secondary vocational school / Gymnasium 3 = Option not administered or data not available 4 = Higher school 5 = Faculty 6 = Specialization, M.A., or Ph.D.
SINGAPORE	TQS2-04	D	Nationally defined options: 1 = Did not complete upper secondary education 2 = Upper secondary education 3 = Postsecondary nontertiary (e.g., JC/ Pre-U/ ITE) 4 = Diploma (e.g., Polytechnic) 5 = University (first degree) 6 = University (master's degree) or higher

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SLOVENIA	TQS2-04	D	Nationally defined options: 1 = Did not complete secondary school 2 = Secondary school 3 = Vocational courses after secondary school 4 = 2 to 3 years of university studies (called higher studies) 5 = 4 years of university studies 6 = Master's degree or Ph.D.
SWEDEN	TQS2-04	D	Nationally defined options: 1 = Did not complete upper secondary school 2 = Upper secondary school 3 = Postsecondary nontertiary education 4 = University certificate (at least 80p, less than 120p), 2-3 years 5 = University degree (120-160p), at least 3 years 6 = University degree (160p or higher)
SYRIAN ARAB REPUBLIC	TQS2-04	D	Nationally defined options: 1 = Did not complete secondary education 2 = Secondary education 3 = Postsecondary education, intermediate institutes 4 = Practical bachelor's degree (e.g., general science, engineering, medicine) 5 = Theoretical bachelor's degree (e.g., literature) 6 = Master's degree or higher
THAILAND	TQS2-04	D	National options recoded to fit international categories: 1 = Did not complete upper secondary education or vocational certificate 2 = Upper secondary education or vocational certificate 3 = Diploma or higher vocational certificate 4 = Bachelor's degree (5-year program or longer) 5 = Bachelor's degree 6 = Master's degree or higher
TUNISIA	TQS2-04	D	Nationally defined options: 1 = Did not complete secondary education 2 = Secondary education 3 = Vocational education after higher secondary diploma 4 = First cycle of university 5 = Second cycle of university 6 = Third cycle of university
TURKEY	TQS2-04	D	National options recoded to fit international categories: 1 = Option not administered or data not available 2 = Option not administered or data not available 3 = Option not administered or data not available 4 = First stage of tertiary education (2 or 3 years) 5 = Tertiary education (first degree, B.A.) 6 = Tertiary education (second degree, M.S./M.A., Ph.D.)
UKRAINE	TQS2-04	D	Nationally defined options: 1 = Did not complete secondary education 2 = Secondary education 3 = Secondary vocational education 4 = College education 5 = Higher education, bachelor's degree 6 = Higher education, master's or higher degree
UNITED STATES	TQS2-04	D	National options recoded to fit international categories: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (A.A.) in a vocational/technical program 5 = Academic associate's or bachelor's degree 6 = Academic master's degree, postgraduate certificate program (e.g., teaching), or first professional degree (e.g., law, medicine, dentistry) / Doctorate (Ph.D. or Ed.D.)

TQS2-05A-I**Question:**

During your <post-secondary> education, what was your major or main area(s) of study?

A: Biology

B: Physics

C: Chemistry

D: <Earth Science>

E: Education - Science

F: Mathematics

G: Education - Mathematics

H: Education - General

I: Other

1 = Yes

2 = No

Variable Name(s): BT4SPSBI, BT4SPSPH, BT4SPSCH, BT4SPSES, BT4SPSED, BT4MPSMA, BT4MPSEM, BT4GPSEG, BT4GPSOT

Country	Question / Option	Code	Documentation
ARMENIA	TQS2-05D	D	Geography
AUSTRALIA	TQS2-05D	D	Earth science (e.g., geography, geology)
BAHRAIN	TQS2-05D	D	Geology
BASQUE COUNTRY, SPAIN	TQS2-05A-C	D	Stem of the question changed: During your university education, what was your major or main area(s) of interest?
BASQUE COUNTRY, SPAIN	TQS2-05D	D	Stem of the question changed: During your university education, what was your major or main area(s) of interest?
BASQUE COUNTRY, SPAIN	TQS2-05E-I	D	Geology Stem of the question changed: During your university education, what was your major or main area(s) of interest?
BOSNIA AND HERZEGOVINA	TQS2-05A-C	D	Stem of the question changed: Which was your main subject or main domain during your higher education or college education?
BOSNIA AND HERZEGOVINA	TQS2-05D	D	Stem of the question changed: Which was your main subject or main domain during your higher education or college education?
BOSNIA AND HERZEGOVINA	TQS2-05E-I	D	Geography Stem of the question changed: Which was your main subject or main domain during your higher education or college education?
BULGARIA	TQS2-05A-C	D	Stem of the question changed: During your college or higher education, what was your major or main area(s) of study?
BULGARIA	TQS2-05D	D	Stem of the question changed: During your college or higher education, what was your major or main area(s) of study?
BULGARIA	TQS2-05E-I	D	Geography and geology Stem of the question changed: During your college or higher education, what was your major or main area(s) of study?
CHINESE TAIPEI	TQS2-05A-I	D	Stem of the question changed: During the education after you finished secondary school, what was your major or main area(s) of interest?
COLOMBIA	TQS2-05A-I	D	Stem of the question changed: During your teacher formation, what was your major or main area(s) of study?

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CYPRUS	TQS2-05A-C	D	Stem of the question changed: During your college or university education, what was your major area of study?
CYPRUS	TQS2-05D	D	Stem of the question changed: During your college or university education, what was your major area of study?
CYPRUS	TQS2-05E-I	D	Geography Stem of the question changed: During your college or university education, what was your major area of study?
CZECH REPUBLIC	TQS2-05A-C	D	Stem of the question changed: During your postsecondary or tertiary education, what was your major or main area(s) of study?
CZECH REPUBLIC	TQS2-05D	D	Stem of the question changed: During your postsecondary or tertiary education, what was your major or main area(s) of study?
CZECH REPUBLIC	TQS2-05E-I	D	Geography Stem of the question changed: During your postsecondary or tertiary education, what was your major or main area(s) of study?
EL SALVADOR	TQS2-05D	D	Geography (earth science)
EL SALVADOR	TQS2-05H	D	Education - General (sciences of education)
GEORGIA	TQS2-05A-C	D	Stem of the question changed: During your higher education, what was your major area of interest?
GEORGIA	TQS2-05D	D	Stem of the question changed: During your higher education, what was your major area of interest?
GEORGIA	TQS2-05E-H	D	Physical geography (earth science) Stem of the question changed: During your higher education, what was your major area of interest?
GHANA	TQS2-05D	D	Geography
HONG KONG SAR	TQS2-05D	D	Geography
HUNGARY	TQS2-05A	D	Stem of the question changed: What were your majors during your tertiary education?
HUNGARY	TQS2-05B	D	Stem of the question changed: What were your majors during your tertiary education?
HUNGARY	TQS2-05C	D	Stem of the question changed: What were your majors during your tertiary education?
HUNGARY	TQS2-05D	D	Stem of the question changed: What were your majors during your tertiary education?
HUNGARY	TQS2-05E	D	Geography Stem of the question changed: What were your majors during your tertiary education?
HUNGARY	TQS2-05F	D	National options recoded to fit international categories: Biology teacher / Physics teacher / Chemistry teacher / Geography teacher Stem of the question changed: What were your majors during your tertiary education?
HUNGARY	TQS2-05G	D	Stem of the question changed: What were your majors during your tertiary education?
HUNGARY	TQS2-05H	D	Stem of the question changed: What were your majors during your tertiary education?
			Primary school teacher (grades 1-4)

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HUNGARY	TQS2-05I	D	Stem of the question changed: What were your majors during your tertiary education?
INDONESIA	TQS2-05D	D	Geography / Geology / Astronomy
ISRAEL	TQS2-05D	D	Earth science, geography
ITALY	TQS2-05A-D	D	Stem of the question changed: In which area of study is your university diploma for teaching?
ITALY	TQS2-05E	X	Option not administered or data not available
ITALY	TQS2-05F	D	Stem of the question changed: In which area of study is your university diploma for teaching?
ITALY	TQS2-05G	X	Option not administered or data not available
ITALY	TQS2-05H	X	Option not administered or data not available
ITALY	TQS2-05I	D	Stem of the question changed: In which area of study is your university diploma for teaching?
KOREA, REP. OF	TQS2-05A-I	D	Stem of the question changed: If you finished university, what was your major or main area of study?
KUWAIT	TQS2-05D	D	Geology
LITHUANIA	TQS2-05D	D	Geography
MALTA	TQS2-05A-C	D	Stem of the question changed: During your teacher training education, what was your major or main area(s) of study?
MALTA	TQS2-05D	D	Stem of the question changed: During your teacher training education, what was your major or main area(s) of study? Geography
MALTA	TQS2-05E-I	D	Stem of the question changed: During your teacher training education, what was your major or main area(s) of study?
MASSACHUSETTS, US	TQS2-05A-C	D	Stem of the question changed: During your college or university education, what was your major or main area(s) of study? National categories recoded to fit international categories: 1 = Major/Minor 2 = No
MASSACHUSETTS, US	TQS2-05D	D	Stem of the question changed: During your college or university education, what was your major or main area(s) of study? Earth science (e.g., geochemistry, geophysics, astronomy) National categories recoded to fit international categories: 1 = Major/Minor 2 = No
MASSACHUSETTS, US	TQS2-05E-G	D	Stem of the question changed: During your college or university education, what was your major or main area(s) of study? National categories recoded to fit international categories: 1 = Major/Minor 2 = No

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MASSACHUSETTS, US	TQS2-05H	D	<p>Stem of the question changed: During your college or university education, what was your major or main area(s) of study?</p> <p>Education - other</p> <p>National categories recoded to fit international categories: 1 = Major/Minor 2 = No</p>
MASSACHUSETTS, US	TQS2-05I	D	<p>Stem of the question changed: During your college or university education, what was your major or main area(s) of study?</p> <p>National categories recoded to fit international categories: 1 = Major/Minor 2 = No</p>
MINNESOTA, US	TQS2-05A-C	D	<p>Stem of the question changed: During your college or university education, what was your major or main area(s) of study?</p> <p>National categories recoded to fit international categories: 1 = Major/Minor 2 = No</p>
MINNESOTA, US	TQS2-05D	D	<p>Stem of the question changed: During your college or university education, what was your major or main area(s) of study?</p> <p>Earth science (e.g., geochemistry, geophysics, astronomy)</p> <p>National categories recoded to fit international categories: 1 = Major/Minor 2 = No</p>
MINNESOTA, US	TQS2-05E-G	D	<p>Stem of the question changed: During your college or university education, what was your major or main area(s) of study?</p> <p>National categories recoded to fit international categories: 1 = Major/Minor 2 = No</p>
MINNESOTA, US	TQS2-05H	D	<p>Stem of the question changed: During your college or university education, what was your major or main area(s) of study?</p> <p>Education - other</p> <p>National categories recoded to fit international categories: 1 = Major/Minor 2 = No</p>
MINNESOTA, US	TQS2-05I	D	<p>Stem of the question changed: During your college or university education, what was your major or main area(s) of study?</p> <p>National categories recoded to fit international categories: 1 = Major/Minor 2 = No</p>
MOROCCO	TQS2-05D	D	Geology / earth science

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NORWAY	TQS2-05A-C	D	Stem of the question changed: If you have finished a lower degree or more from university, in which topics do you have 20 or more study points?
NORWAY	TQS2-05D	D	Stem of the question changed: If you have finished a lower degree or more from university, in which topics do you have 20 or more study points?
NORWAY	TQS2-05E-I	D	Geoscience Stem of the question changed: If you have finished a lower degree or more from university, in which topics do you have 20 or more study points?
PALESTINIAN NAT'L AUTH.	TQS2-05D	D	Earth science and geology
ROMANIA	TQS2-05A-C	D	Stem of the question changed: During your university education, what was your major or main area(s) of study?
ROMANIA	TQS2-05D	D	Stem of the question changed: During your university education, what was your major or main area(s) of study?
ROMANIA	TQS2-05E-I	D	Geography Stem of the question changed: During your university education, what was your major or main area(s) of study?
RUSSIAN FEDERATION	TQS2-05D	D	Geography
SAUDI ARABIA	TQS2-05D	D	Geology / Biology
SERBIA	TQS2-05A-C	D	Stem of the question changed: What was your main subject or domain during your high education or college education?
SERBIA	TQS2-05D	D	Stem of the question changed: What was your main subject or domain during your high education or college education?
SERBIA	TQS2-05E-I	D	Geography Stem of the question changed: What was your main subject or domain during your high education or college education?
SINGAPORE	TQS2-05D	D	Geography
SLOVENIA	TQS2-05D	X	Option not administered or data not available
SLOVENIA	TQS2-05E	D	Education - Biology / Education - Physics / Education - Chemistry
SLOVENIA	TQS2-05H	X	Option not administered or data not available
SWEDEN	TQS2-05D	D	Geography
THAILAND	TQS2-05A-C	D	Stem of the question changed: During your tertiary education, what was your major or main area(s) of study?
THAILAND	TQS2-05D	D	Stem of the question changed: During your tertiary education, what was your major or main area(s) of study?
THAILAND	TQS2-05E-I	D	Astronomy, earth and space science Stem of the question changed: During your tertiary education, what was your major or main area(s) of study?
TUNISIA	TQS2-05A-C	D	Stem of the question changed: During your university studies, what was your major or main area(s) of study?

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TUNISIA	TQS2-05D	D	Stem of the question changed: During your university studies, what was your major or main area(s) of study? Geology / Earth science
TUNISIA	TQS2-05E-I	D	Stem of the question changed: During your university studies, what was your major or main area(s) of study?
TURKEY	TQS2-05A-C	D	Stem of the question changed: During your tertiary education, what was your major or main area(s) of study?
TURKEY	TQS2-05D	D	Stem of the question changed: During your tertiary education, what was your major or main area(s) of study? Physical geography, geology
TURKEY	TQS2-05E-I	D	Stem of the question changed: During your tertiary education, what was your major or main area(s) of study?
UKRAINE	TQS2-05A-C	D	Stem of the question changed: During your higher education (college), what was your main specialization (preparation course)?
UKRAINE	TQS2-05D	D	Stem of the question changed: During your higher education (college), what was your main specialization (preparation course)? Geography
UKRAINE	TQS2-05E-I	D	Stem of the question changed: During your higher education (college), what was your main specialization (preparation course)?
UNITED STATES	TQS2-05A-C	D	Stem of the question changed: During your college or university education, what was your major or main area(s) of study? National categories recoded to fit international categories: 1 = Major/Minor 2 = No
UNITED STATES	TQS2-05D	D	Stem of the question changed: During your college or university education, what was your major or main area(s) of study? Earth science (e.g., geochemistry, geophysics, astronomy) National categories recoded to fit international categories: 1 = Major/Minor 2 = No
UNITED STATES	TQS2-05E-G	D	Stem of the question changed: During your college or university education, what was your major or main area(s) of study? National categories recoded to fit international categories: 1 = Major/Minor 2 = No
UNITED STATES	TQS2-05H	D	Stem of the question changed: During your college or university education, what was your major or main area(s) of study? Education - Other National categories recoded to fit international categories: 1 = Major/Minor 2 = No

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UNITED STATES	TQS2-05I	D	<p>Stem of the question changed: During your college or university education, what was your major or main area(s) of study?</p> <p>National categories recoded to fit international categories: 1 = Major/Minor 2 = No</p>
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TQS2-06

Question:

Do you have a teaching license or certificate?
1 = Yes
2 = No

Variable Name(s): BT4GTLCE

Country	Question / Option	Code	Documentation
AUSTRALIA	TQS2-06	D	Stem of the question changed: Do you have a teaching registration or approval to teach from a government education department?
BASQUE COUNTRY, SPAIN	TQS2-06	X	Question not administered or data not available
BOTSWANA	TQS2-06	D	Stem of the question changed: Do you have a teaching certificate?
COLOMBIA	TQS2-06	X	Question not administered or data not available
GHANA	TQS2-06	D	Stem of the question changed: Do you have a teaching certificate and registration number?
HUNGARY	TQS2-06	X	Question not administered or data not available
MALTA	TQS2-06	D	Stem of the question changed: Do you hold a permanent teaching warrant?
SCOTLAND	TQS2-06	D	Gang punched to "Yes"
SWEDEN	TQS2-06	D	Stem of the question changed: Do you have a teaching qualification?

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TQS2-07AA-AG

Question:

How well prepared do you feel you are to teach the following topics?

A: Major organs and organ systems in humans and other organisms (structure/function, life processes that maintain stable bodily conditions)

B: Cells and their functions, including respiration and photosynthesis as cellular processes

C: Reproduction (sexual and asexual) and heredity (passing on of traits, inherited versus acquired/learned characteristics)

D: Role of variation and adaptation in survival/extinction of species in a changing environment

E: Interaction of living organisms and the physical environment in an ecosystem (energy flow, food webs, effect of changes, cycling of materials)

F: Trends in human population and its effects on the environment

G: Impact of natural hazards on humans, wildlife, and the environment

1 = Not applicable

2 = Very well prepared

3 = Somewhat prepared

4 = Not well prepared

Variable Name(s): BT4STT01, BT4STT02, BT4STT03, BT4STT04, BT4STT05, BT4STT06, BT4STT07

Country	Question / Option	Code	Documentation
HUNGARY	TQS2-07AA-AG	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
RUSSIAN FEDERATION	TQS2-07AA-AG	X	Question not administered or data not available

TQS2-07BA-BE

Question:

How well prepared do you feel you are to teach the following topics?

A: Classification and composition of matter (properties of elements, compounds, mixtures)

B: Particulate structure of matter (molecules, atoms, protons, neutrons, and electrons)

C: Solutions (solvent, solute, concentration/dilution, effect of temperature on solubility)

D: Properties and uses of common acids and bases

E: Chemical change (transformation of reactants, evidence of chemical change, conservation of matter, common oxidation reactions - combustion and rusting)

1 = Not applicable

2 = Very well prepared

3 = Somewhat prepared

4 = Not well prepared

Variable Name(s): BT4STT08, BT4STT09, BT4STT10, BT4STT11, BT4STT12

Country	Question / Option	Code	Documentation
HUNGARY	TQS2-07BA-BE	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
RUSSIAN FEDERATION	TQS2-07BA-BE	X	Question not administered or data not available

TQS2-07CA-CF**Question:**

How well prepared do you feel you are to teach the following topics?

A: Physical states and changes in matter (explanations of properties in terms of movement/distance between particles; phase change, thermal expansion and changes in volume and/or pressure)

B: Energy forms, transformations, heat, and temperature

C: Basic properties/behaviors of light (reflection, refraction, light and color, simple ray diagrams) and sound (transmission through media, loudness, pitch, amplitude, frequency, relative speed of light and sound)

D: Electric circuits (flow of current; types of circuits - parallel/series; current/voltage relationship)

E: Properties of permanent magnets and electromagnets

F: Forces and motion (types of forces, basic description of motion, use of distance/time graphs, effects of density and pressure)

1 = Not applicable

2 = Very well prepared

3 = Somewhat prepared

4 = Not well prepared

Variable Name(s): BT4STT13, BT4STT14, BT4STT15, BT4STT16, BT4STT17, BT4STT18

Country	Question / Option	Code	Documentation
HUNGARY	TQS2-07CA-CF	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
RUSSIAN FEDERATION	TQS2-07CA-CF	X	Question not administered or data not available

TQS2-07DA-DE**Question:**

How well prepared do you feel you are to teach the following topics?

A: Earth's structure and physical features (Earth's crust, mantle and core; use of topographic maps)

B: Earth's processes, cycles and history (rock cycle; water cycle; weather patterns; major geological events; formation of fossils and fossil fuels)

C: Environmental concerns (e.g., pollution, global warming, acid rain)

D: Use and conservation of Earth's natural resources (renewable/non-renewable resources, human use of land/soil and water resources)

E: Earth in the solar system and the universe (phenomena on Earth - day/night, tides, phases of moon, eclipses, seasons; physical features of Earth compared to other bodies; the Sun as a star)

1 = Not applicable

2 = Very well prepared

3 = Somewhat prepared

4 = Not well prepared

Variable Name(s): BT4STT19, BT4STT20, BT4STT21, BT4STT22, BT4STT23

Country	Question / Option	Code	Documentation
HUNGARY	TQS2-07DA-DE	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
MOROCCO	TQS2-07DA-DE	D	Geology
RUSSIAN FEDERATION	TQS2-07DA-DE	X	Question not administered or data not available
SINGAPORE	TQS2-07DA-DE	D	Geography

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TQS2-13

Question:

How many students are in the <TIMSS class / class with the TIMSS students>?

Variable Name(s): BT4SSTUD

Country	Question / Option	Code	Documentation
ITALY	TQS2-13	D	Gang punched to teachers' responses to question 13 "How many students are in the TIMSS class?" from the Mathematics Teacher Questionnaire.
SWEDEN	TQS2-13	D	Stem of the question changed: How many students are in the TIMSS class? (Write the number of students that are taught in the group, regardless of whether they participate or do not participate in TIMSS.)

TQS2-15A-B

Question:

A: Do you use a textbook(s) in teaching science to the <TIMSS class>?

1 = Yes

2 = No

B: How do you use a textbook(s) in teaching science to the <TIMSS class>?

1 = As the primary basis for my lessons

2 = As a supplementary resource

Variable Name(s): BT4STBTC, BT4STXBU

Country	Question / Option	Code	Documentation
ENGLAND	TQS2-15A	D	Stem of the question changed: Do you use textbooks or commercially produced schemes in teaching science to the TIMSS class?
ENGLAND	TQS2-15B	D	Stem of the question changed: How do you use textbooks or commercially produced schemes in teaching science to the TIMSS class?
SCOTLAND	TQS2-15A	D	Stem of the question changed: Do you use textbooks or commercially produced schemes in teaching science to the TIMSS class?
SCOTLAND	TQS2-15B	D	Stem of the question changed: How do you use textbooks or commercially produced schemes in teaching science to the TIMSS class?

TQS2-16A-H**Question:**

In a typical week of science lessons for the TIMSS class, what percentage of time do students spend on each of the following activities?

- A: Reviewing homework
- B: Listening to lecture-style presentations
- C: Working problems with your guidance
- D: Working problems on their own without your guidance
- E: Listening to you re-teach and clarify content/procedures
- F: Taking tests or quizzes
- G: Participating in classroom management tasks not related to the lesson's content/purpose (e.g., interruptions and keeping order)
- H: Other student activities

Variable Name(s): BT4SPTRH, BT4SPTLS, BT4SPTYG, BT4SPTOO, BT4SPTRT, BT4SPTTQ, BT4SPTCM, BT4SPTOA

Country	Question / Option	Code	Documentation
HUNGARY	TQS2-16F	D	Taking tests or oral questioning

TQS2-19A-E**Question:**

By the end of this school year, approximately what percentage of teaching time will you have spent during this school year on each of the following science content areas for the <TIMSS class>?

- A: Biology (e.g., structure/function; life processes, reproduction/heredity, natural selection; ecosystems, human health)
- B: Chemistry (e.g., classification, composition and properties of matter; chemical change)
- C: Physics (e.g., physical states/ changes in matter; energy; light; sound; electricity and magnetism; forces and motion)
- D: Earth science (e.g., Earth's structure, processes, and resources; the solar system and universe)
- E: Other, please specify:

Variable Name(s): BT4SCLSC, BT4SCCHE, BT4SCPHY, BT4SCESC, BT4SCOTH

Country	Question / Option	Code	Documentation
BOSNIA AND HERZEGOVINA	TQS2-19A-E	X	Question not administered or data not available
HUNGARY	TQS2-19A-E	X	Question not administered or data not available
LITHUANIA	TQS2-19A-E	X	Question not administered or data not available
ROMANIA	TQS2-19A-E	X	Question not administered or data not available
RUSSIAN FEDERATION	TQS2-19A-E	X	Question not administered or data not available
SINGAPORE	TQS2-19D	D	Geography (e.g., Earth's structure, processes, and resources; the solar system and universe)
SLOVENIA	TQS2-19A-E	X	Question not administered or data not available
UKRAINE	TQS2-19A-E	X	Question not administered or data not available

Section 6: Eighth Grade – Science Teacher Questionnaire

TQS2-20AA-AN

Question:

The following list includes the main topics addressed by the TIMSS science test. Choose the response that best describes when students in the <TIMSS class> have been taught each topic. If a topic was taught half this year but not yet completed, please choose “Mostly taught this year.” If a topic is not in the curriculum, please choose “Not yet taught or just introduced.”

- A: Classification of organisms on the basis of a variety of physical and behavioral characteristics
- B: Major organ systems in humans and other organisms
- C: How the systems function to maintain stable bodily conditions
- D: Cell structures and functions
- E: Photosynthesis and respiration (including substances used and produced) as processes of cells and organisms
- F: Life cycles of organisms, including humans, plants, birds, insects
- G: Reproduction (sexual and asexual), and heredity (passing on of traits, inherited versus acquired/learned characteristics)
- H: Role of variation and adaptation in survival/extinction of species in a changing environment
- I: Interaction of living organisms in an ecosystem (energy flow, food chains and food webs, food pyramids, and the effects of change upon the system)
- J: Cycling of materials in nature (water, carbon/oxygen cycle, decomposition of organisms)
- K: Trends in human population and its effects on the environment
- L: Impact of natural hazards on humans, wildlife, and the environment
- M: Causes of common infectious diseases, methods of infection/transmission, prevention, and the body’s natural resistance and healing capabilities
- N: Preventive medicine methods (diet, hygiene, exercise, and lifestyle)
 - 1 = Mostly taught before this year
 - 2 = Mostly taught this year
 - 3 = Not yet taught or just introduced

Variable Name(s): BT4STP01, BT4STP02, BT4STP03, BT4STP04, BT4STP05, BT4STP06, BT4STP07, BT4STP08, BT4STP09, BT4STP10, BT4STP11, BT4STP12, BT4STP13, BT4STP14

Country	Question / Option	Code	Documentation
RUSSIAN FEDERATION	TQS2-20AA-AN	X	Question not administered or data not available

TQS2-20BA-BH

Question:

The following list includes the main topics addressed by the TIMSS science test. Choose the response that best describes when students in the <TIMSS class> have been taught each topic. If a topic was taught half this year but not yet completed, please choose “Mostly taught this year.” If a topic is not in the curriculum, please choose “Not yet taught or just introduced.”

- A: Classification and composition of matter (physical and chemical properties, pure substances and mixtures, separation techniques)
- B: Particulate structure of matter (molecules, atoms, protons, neutrons, and electrons)
- C: Solutions (solvents, solutes, effect of temperature on solubility)
- D: Properties and uses of water (composition, melting/boiling points, changes in density/volume)
- E: Properties and uses of common acids and bases
- F: Chemical change (transformation of reactants, evidence of chemical change, conservation of matter)
- G: Common oxidation reactions (combustion, rusting), the need for oxygen and the relative tendency of familiar substances to undergo these reactions
- H: Classification of familiar chemical transformations as releasing or absorbing heat/energy
 - 1 = Mostly taught before this year
 - 2 = Mostly taught this year
 - 3 = Not yet taught or just introduced

Variable Name(s): BT4STP15, BT4STP16, BT4STP17, BT4STP18, BT4STP19, BT4STP20, BT4STP21, BT4STP22

Country	Question / Option	Code	Documentation
RUSSIAN FEDERATION	TQS2-20BA-BH	X	Question not administered or data not available

TQS2-20CA-CJ**Question:**

The following list includes the main topics addressed by the TIMSS science test. Choose the response that best describes when students in the <TIMSS class> have been taught each topic. If a topic was taught half this year but not yet completed, please choose "Mostly taught this year." If a topic is not in the curriculum, please choose "Not yet taught or just introduced."

A: Physical states and changes in matter (explanations of properties including volume, shape, density, and compressibility in terms of movement/distance between particles, conservation of mass during physical changes)

B: Processes of melting, freezing, evaporation, and condensation (phase change; melting/boiling points; effects of pressure and purity of substances)

C: Energy forms, transformations, heat and temperature, including heat transfer

D: Temperature changes related to changes in volume and/or pressure and to changes in movement or speed of particles

E: Basic properties/behavior of light (reflection, refraction, light and color, simple ray diagrams)

F: Properties of sound (transmission through media, ways of describing sound (loudness, pitch, amplitude, frequency), relative speed)

G: Electric circuits (flow of current, types of circuits – parallel/series) and relationship between voltage and current

H: Properties of permanent magnets and electromagnets

I: Forces and motion (types of forces, basic description of motion), use of distance/time graphs

J: Effects of density and pressure

1 = Mostly taught before this year

2 = Mostly taught this year

3 = Not yet taught or just introduced

Variable Name(s): BT4STP23, BT4STP24, BT4STP25, BT4STP26, BT4STP27, BT4STP28, BT4STP29, BT4STP30, BT4STP31, BT4STP32

Country	Question / Option	Code	Documentation
RUSSIAN FEDERATION	TQS2-20CA-CJ	X	Question not administered or data not available

Section 6: Eighth Grade – Science Teacher Questionnaire

TQS2-20DA-DN

Question:

The following list includes the main topics addressed by the TIMSS science test. Choose the response that best describes when students in the <TIMSS class> have been taught each topic. If a topic was taught half this year but not yet completed, please choose “Mostly taught this year.” If a topic is not in the curriculum, please choose “Not yet taught or just introduced.”

- A: Earth’s structure and physical features (Earth’s crust, mantle, and core; topographic maps)
 - B: The physical state, movement, composition, and relative distribution of water on Earth
 - C: Earth’s atmosphere and the relative abundance of its main components
 - D: Earth’s water cycle (steps, role of sun’s energy, circulation/renewal of fresh water)
 - E: Processes in the rock cycle and the formation of igneous, metamorphic, and sedimentary rock
 - F: Weather data/maps and changes in weather patterns (e.g., seasonal changes, effects of latitude, altitude, and geography)
 - G: Geological processes occurring over millions of years (e.g., erosion, mountain building, plate movement)
 - H: Formation of fossils and fossil fuels
 - I: Environmental concerns (e.g., pollution, global warming, acid rain)
 - J: Earth’s resources (renewable/nonrenewable, conservation, waste management)
 - K: Relationship of land management (e.g., pest control) to human use (e.g., farming)
 - L: Supply and demand of fresh water resources
 - M: Explanation of phenomena on Earth based on position/movement of bodies in the solar system and universe (e.g., day/night, tides, year, phases of the moon, eclipses, seasons, appearance of sun, moon, planets, and constellations)
 - N: Physical features of Earth compared with the moon and other planets (e.g., atmosphere, temperature, water, distance from sun, period of revolution/rotation, ability to support life)
- 1 = Mostly taught before this year
 2 = Mostly taught this year
 3 = Not yet taught or just introduced

Variable Name(s): BT4STP33, BT4STP34, BT4STP35, BT4STP36, BT4STP37, BT4STP38, BT4STP39, BT4STP40, BT4STP41, BT4STP42, BT4STP43, BT4STP44, BT4STP45, BT4STP46

Country	Question / Option	Code	Documentation
MOROCCO	TQS2-20DA-DN	D	Geology
RUSSIAN FEDERATION	TQS2-20DA-DN	X	Question not administered or data not available
SINGAPORE	TQS2-20DA-DN	D	Geography

TQS2-21A-B

Question:

- A: Do students in the <TIMSS class> have computer(s) available to use during their science lessons?
 - B: Do any of the computer(s) have access to the Internet?
- 1 = Yes
 2 = No

Variable Name(s): BT4SCOMA, BT4SINTA

Country	Question / Option	Code	Documentation
EGYPT	TQS2-21A	X	Question not administered or data not available
EGYPT	TQS2-21B	X	Question not administered or data not available
LITHUANIA	TQS2-21B	X	Question not administered or data not available

TQS2-22A-E**Question:**

In teaching science to the <TIMSS class>, how often do you have students use a computer for the following activities?

- A: Do scientific procedures or experiments
- B: Study natural phenomena through simulations
- C: Practice skills and procedures
- D: Look up ideas and information
- E: Process and analyze data
 - 1 = Every or almost every lesson
 - 2 = About half the lessons
 - 3 = Some lessons
 - 4 = Never

Variable Name(s): BT4SCAPE, BT4SCANP, BT4SCASP, BT4SCALI, BT4SCAPA

Country	Question / Option	Code	Documentation
EGYPT	TQS2-22A	X	Question not administered or data not available
EGYPT	TQS2-22B	X	Question not administered or data not available
EGYPT	TQS2-22C	X	Question not administered or data not available
EGYPT	TQS2-22D	X	Question not administered or data not available
EGYPT	TQS2-22E	X	Question not administered or data not available

TQS2-26A-G**Question:**

How often do you assign the following kinds of science homework to the <TIMSS class>?

- A: Doing problem/question sets
- B: Finding one or more applications of the content covered
- C: Reading from a textbook or supplementary materials
- D: Writing definitions or other short writing assignments
- E: Working on projects
- F: Working on small investigations or gathering data
- G: Preparing reports
 - 1 = Always or almost always
 - 2 = Sometimes
 - 3 = Never or almost never

Variable Name(s): BT4SKHCP, BT4SKHCA, BT4SKHCT, BT4SKHCW, BT4SKHCR, BT4SKHCS, BT4SKHCG

Country	Question / Option	Code	Documentation
SAUDI ARABIA	TQS2-26C-F	X	Option not administered or data not available

Section 6: Eighth Grade – Science Teacher Questionnaire

TQS2-28A-C

Question:

How much emphasis do you place on the following sources to monitor students' progress in science?

A: Classroom tests (for example, teacher made or textbook tests)

B: National or regional achievement tests

C: Your professional judgement

1 = Major emphasis

2 = Some emphasis

3 = Little emphasis

4 = No emphasis

Variable Name(s): BT4SEPCT, BT4SEPNA, BT4SEPYJ

Country	Question / Option	Code	Documentation
SWEDEN	TQS2-28B	X	Option not administered or data not available

TQS2-29

Question:

How often do you give a science test or examination to the <TIMSS class>?

1 = About once a week

2 = About every two weeks

3 = About once a month

4 = A few times a year

5 = Never

Variable Name(s): BT4STEEX

Country	Question / Option	Code	Documentation
MASSACHUSETTS, US	TQS2-29	D	Stem of the question changed: How often do you give a science test or examination to the class with the TIMSS students? Do not include quizzes.
MINNESOTA, US	TQS2-29	D	Stem of the question changed: How often do you give a science test or examination to the class with the TIMSS students? Do not include quizzes.
UNITED STATES	TQS2-29	D	Stem of the question changed: How often do you give a science test or examination to the class with the TIMSS students? Do not include quizzes.

TQS2-30**Question:**

What item formats do you typically use in your science tests or examinations?

1 = Only constructed-response

2 = Mostly constructed-response

3 = About half constructed-response and half objective (e.g., multiple-choice)

4 = Mostly objective

5 = Only objective

Variable Name(s): BT4SWFTU

Country	Question / Option	Code	Documentation
MASSACHUSETTS, US	TQS2-30	D	Stem of the question changed: What item formats do you typically use in your science tests or examinations? Do not include quizzes.
MINNESOTA, US	TQS2-30	D	Stem of the question changed: What item formats do you typically use in your science tests or examinations? Do not include quizzes.
UNITED STATES	TQS2-30	D	Stem of the question changed: What item formats do you typically use in your science tests or examinations? Do not include quizzes.

TQS2-31A-D**Question:**

How often do you include the following types of questions in your science tests or examinations?

A: Questions based on knowing facts and concepts

B: Questions based on the application of knowledge and understanding

C: Questions involving developing hypotheses and designing scientific investigations

D: Questions requiring explanations or justifications

1 = Always or almost always

2 = Sometimes

3 = Never or almost never

Variable Name(s): BT4STERU, BT4STEIH, BT4STEBR, BT4STEJU

Country	Question / Option	Code	Documentation
MALAYSIA	TQS2-31B	X	Question not administered or data not available
MASSACHUSETTS, US	TQS2-31A-D	D	Stem of the question changed: How often do you include the following types of questions in your science tests or examinations? Do not include quizzes.
MINNESOTA, US	TQS2-31A-D	D	Stem of the question changed: How often do you include the following types of questions in your science tests or examinations? Do not include quizzes.
UNITED STATES	TQS2-31A-D	D	Stem of the question changed: How often do you include the following types of questions in your science tests or examinations? Do not include quizzes.

Section 6: Eighth Grade – Science Teacher Questionnaire

ITCOURSE

Question:

TYPE OF COURSE

Variable Name(s): ITCOURSE

Country	Question / Option	Code	Documentation
ALGERIA	ITCOURSE	D	8 = Physics / Chemistry 9 = Biology / Earth Science
ARMENIA	ITCOURSE	D	2 = Physics 3 = Biology 4 = Chemistry 5 = Geography
AUSTRALIA	ITCOURSE	D	6 = Integrated Science
BAHRAIN	ITCOURSE	D	6 = Integrated Science
BASQUE COUNTRY, SPAIN	ITCOURSE	D	6 = Integrated Science
BOSNIA AND HERZEGOVINA	ITCOURSE	D	2 = Physics 3 = Biology 4 = Chemistry 5 = Geography
BOTSWANA	ITCOURSE	D	6 = Integrated Science
BRITISH COLUMBIA, CANADA	ITCOURSE	D	6 = Integrated Science
BULGARIA	ITCOURSE	D	2 = Physics 3 = Biology 4 = Chemistry 5 = Geography
CHINESE TAIPEI	ITCOURSE	D	6 = Integrated Science
COLOMBIA	ITCOURSE	D	6 = Integrated Science
CYPRUS	ITCOURSE	D	2 = Physics 4 = Chemistry 5 = Geography
CZECH REPUBLIC	ITCOURSE	D	2 = Physics 3 = Biology 4 = Chemistry 5 = Geography
DUBAI, UAE	ITCOURSE	D	6 = Integrated Science
EGYPT	ITCOURSE	D	6 = Integrated Science
EL SALVADOR	ITCOURSE	D	6 = Integrated Science
ENGLAND	ITCOURSE	D	6 = Integrated Science
GEORGIA	ITCOURSE	D	2 = Physics 3 = Biology 4 = Chemistry 5 = Earth Science
GHANA	ITCOURSE	D	6 = Integrated Science
HONG KONG SAR	ITCOURSE	D	6 = Integrated Science
HUNGARY	ITCOURSE	D	2 = Physics 3 = Biology 4 = Chemistry 5 = Earth Science
INDONESIA	ITCOURSE	D	2 = Physics 3 = Biology 6 = Integrated Science
IRAN, ISLAMIC REP. OF	ITCOURSE	D	6 = Integrated Science

Section 6: Eighth Grade – Science Teacher Questionnaire

ISRAEL	ITCOURSE	D	6 = Integrated Science
ITALY	ITCOURSE	D	6 = Integrated Science
JAPAN	ITCOURSE	D	6 = Integrated Science
JORDAN	ITCOURSE	D	6 = Integrated Science
KOREA, REP. OF	ITCOURSE	D	6 = Integrated Science
KUWAIT	ITCOURSE	D	6 = Integrated Science
LEBANON	ITCOURSE	D	2 = Physics 3 = Life and Earth Science (Biology) 4 = Chemistry
LITHUANIA	ITCOURSE	D	2 = Physics 3 = Biology 4 = Chemistry 5 = Geography
MALAYSIA	ITCOURSE	D	6 = Integrated Science
MALTA	ITCOURSE	D	2 = Physics 3 = Biology 4 = Chemistry 5 = Geography 17 = Environmental Studies
MASSACHUSETTS, US	ITCOURSE	D	6 = Integrated Science
MINNESOTA, US	ITCOURSE	D	6 = Integrated Science
MOROCCO	ITCOURSE	D	8 = Physics / Chemistry 9 = Biology / Earth Science
NORWAY	ITCOURSE	D	6 = Integrated Science
OMAN	ITCOURSE	D	6 = Integrated Science
ONTARIO, CANADA	ITCOURSE	D	6 = Integrated Science
PALESTINIAN NAT'L AUTH.	ITCOURSE	D	6 = Integrated Science
QATAR	ITCOURSE	D	6 = Integrated Science
QUEBEC, CANADA	ITCOURSE	D	6 = Integrated Science
ROMANIA	ITCOURSE	D	2 = Physics 3 = Biology 4 = Chemistry 5 = Geography
RUSSIAN FEDERATION	ITCOURSE	D	2 = Physics 3 = Biology 4 = Chemistry 5 = Geography
SAUDI ARABIA	ITCOURSE	D	6 = Integrated Science
SCOTLAND	ITCOURSE	D	6 = Integrated Science
SERBIA	ITCOURSE	D	2 = Physics 3 = Biology 4 = Chemistry 5 = Geography
SINGAPORE	ITCOURSE	D	6 = Integrated Science
SLOVENIA	ITCOURSE	D	2 = Physics 3 = Biology 4 = Chemistry
SWEDEN	ITCOURSE	D	2 = Physics 3 = Biology 4 = Chemistry 6 = Integrated Science
SYRIAN ARAB REPUBLIC	ITCOURSE	D	8 = Physics / Chemistry 9 = Biology / Earth Science
THAILAND	ITCOURSE	D	6 = Integrated Science
TUNISIA	ITCOURSE	D	9 = Biology / Earth Science

Section 6: Eighth Grade – Science Teacher Questionnaire

TURKEY	ITCOURSE	D	6 = Integrated Science
UKRAINE	ITCOURSE	D	2 = Physics 3 = Biology 4 = Chemistry 5 = Geography
UNITED STATES	ITCOURSE	D	6 = Integrated Science

**Eighth Grade
School Questionnaire**

Section 7

SCQ2-02**Question:**

How many people live in the city, town, or area where your school is located?

- 1 = More than 500,000 people
- 2 = 100,001 to 500,000 people
- 3 = 50,001 to 100,000 people
- 4 = 15,001 to 50,000 people
- 5 = 3,001 to 15,000 people
- 6 = 3,000 people or fewer

Variable Name(s): BC4GCOMU

Country	Question / Option	Code	Documentation
AUSTRALIA	SCQ2-02	D	National options recoded to fit international categories: 1 = More than 500,000 people 2 = 100,001 to 500,000 people 3 = 50,001 to 100,000 people 4 = 15,001 to 50,000 people 5 = 3,001 to 15,000 people 6 = 1,001 to 3,000 people/ Fewer than 1,000 people
SINGAPORE	SCQ2-02	D	Gang punched to "More than 500,000 people"

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

Approximately what percentage of students in your school have the following backgrounds?

A: Come from economically disadvantaged homes

B: Come from economically affluent homes

- 1 = 0 to 10%
- 2 = 11 to 25%
- 3 = 26 to 50%
- 4 = More than 50%

Variable Name(s): BC4GSBED, BC4GSBEA

Country	Question / Option	Code	Documentation
NORWAY	SCQ2-03A-B	X	Question not administered or data not available

SCQ2-04**Question:**

Approximately what percentage of students in your school have <language of test> as their native language?

- 1 = More than 90%
- 2 = 76 to 90%
- 3 = 50 to 75%
- 4 = Less than 50%

Variable Name(s): BC4GNALA

Country	Question / Option	Code	Documentation
TURKEY	SCQ2-04	X	Question not administered or data not available

Section 7: Eighth Grade – School Questionnaire

SCQ2-05A

Question:

For the <eighth-grade> students in your school:
How many days per year is your school open for instruction?

Variable Name(s): BC4GDYSO

Country	Question / Option	Code	Documentation
GHANA	SCQ2-05A	D	Stem of the question changed: How many days per year is your school open for teaching and learning?
MALTA	SCQ2-05A	D	Gang punched to "180"
NORWAY	SCQ2-05A	D	Gang punched to "190"

SCQ2-05BA-BB

Question:

For the <eighth-grade> students in your school:
What is the total instructional time, excluding breaks, in a typical day?

Variable Name(s): BC4GHTIT, BC4GMTIT

Country	Question / Option	Code	Documentation
NORWAY	SCQ2-05BA	D	Gang punched to "4 hours"
NORWAY	SCQ2-05BB	D	Gang punched to "30 minutes"

SCQ2-05C

Question:

For the <eighth-grade> students in your school:
In one calendar week, how many days is the school open for instruction?
1 = 6 days
2 = 5 1/2 days
3 = 5 days
4 = 4 1/2 days
5 = 4 days
6 = Other

Variable Name(s): BC4GDSOI

Country	Question / Option	Code	Documentation
NORWAY	SCQ2-05C	D	Gang punched to "5 days"
RUSSIAN FEDERATION	SCQ2-05C	D	National options recoded to fit international categories: 1 = 6 days 2 = Option not administered or data not available 3 = 5 days 4 = Option not administered or data not available 5 = 4 days 6 = Other
SLOVENIA	SCQ2-05C	D	Gang punched to "5 days"

SCQ2-06A-F**Question:**

By the end of this school year, approximately what percentage of time in your role as principal will you have spent on these activities?

A: Administrative duties (e.g., hiring, budgeting, scheduling, meetings)

B: Instructional leadership (e.g., developing curriculum and pedagogy)

C: Supervising and evaluating teachers and other staff

D: Teaching

E: Public relations and fundraising

F: Other

Variable Name(s): BC4GAPAD, BC4GAPIL, BC4GAPST, BC4GAPTE, BC4GAPPR, BC4GAPOT

Country	Question / Option	Code	Documentation
ENGLAND	SCQ2-06B	D	Developing curriculum and approaches to teaching and learning
ENGLAND	SCQ2-06E	D	Parent and community relations and fundraising
SCOTLAND	SCQ2-06B	D	Developing curriculum and approaches to teaching and learning
SCOTLAND	SCQ2-06E	D	Parent and community relations and fundraising

SCQ2-07A-E**Question:**

Does your school ask parents to do the following?

A: Attend special events (e.g., science fair, concert, sporting events)

B: Raise funds for the school

C: Volunteer for school projects, programs, and trips

D: Ensure that their child completes his/her homework

E: Serve on school committees (e.g., select school personnel, review school finances)

1 = Yes

2 = No

Variable Name(s): BC4GAPSE, BC4GAPRF, BC4GAPVO, BC4GAPCH, BC4GAPSC

Country	Question / Option	Code	Documentation
AUSTRALIA	SCQ2-07E	D	Serve on school committees (e.g., school council/board, review school finances)
BASQUE COUNTRY, SPAIN	SCQ2-07E	D	Serve on school committees
SLOVENIA	SCQ2-07A-E	D	Stem of the question changed: Does your school ask parents of grade 8 students to do the following?

Section 7: Eighth Grade – School Questionnaire

SCQ2-08A-H

Question:

How would you characterize each of the following within your school?
 A: Teachers' job satisfaction
 B: Teachers' understanding of the school's curricular goals
 C: Teachers' degree of success in implementing the school's curriculum
 D: Teachers' expectations for student achievement
 E: Parental support for student achievement
 F: Parental involvement in school activities
 G: Students' regard for school property
 H: Students' desire to do well in school
 1 = Very high
 2 = High
 3 = Medium
 4 = Low
 5 = Very low

Variable Name(s): BC4GCHTS, BC4GCHTU, BC4GCHTC, BC4GCHES, BC4GCHPS, BC4GCHPI, BC4GCHSR, BC4GCHSD

Country	Question / Option	Code	Documentation
SLOVENIA	SCQ2-08A-H	D	Stem of the question changed: How would you characterize each of the following within grades 5 to 9 of your school?

SCQ2-09

Question:

Are <eighth-grade> students in your school grouped by ability for their mathematics classes?
 1 = Yes
 2 = No

Variable Name(s): BC4MGAMC

Country	Question / Option	Code	Documentation
NORWAY	SCQ2-09	X	Question not administered or data not available

SCQ2-10A-B

Question:

Does your school do any of the following for students in the <eighth-grade>?
 A: Offer enrichment mathematics
 B: Offer remedial mathematics
 1 = Yes
 2 = No

Variable Name(s): BC4MSOEM, BC4MSORM

Country	Question / Option	Code	Documentation
NORWAY	SCQ2-10A-B	X	Question not administered or data not available

SCQ2-11**Question:**

Are <eighth-grade> students in your school grouped by ability for their science classes?

1 = Yes

2 = No

Variable Name(s): BC4SGASC

Country	Question / Option	Code	Documentation
NORWAY	SCQ2-11	X	Question not administered or data not available

SCQ2-12A-B**Question:**

Does your school do any of the following for students in the <eighth-grade>?

A: Offer enrichment science

B: Offer remedial science

1 = Yes

2 = No

Variable Name(s): BC4SSOES, BC4SSORS

Country	Question / Option	Code	Documentation
NORWAY	SCQ2-12A-B	X	Question not administered or data not available

SCQ2-13A-E**Question:**

In the past two years, what percentage of your <eighth-grade> teachers have been involved in professional development opportunities for mathematics and science targeted at the following?

A: Supporting the implementation of the national or regional curriculum

B: Designing or supporting the school's own improvement goals

C: Improving content knowledge

D: Improving teaching skills

E: Using information and communication technology for educational purposes

1 = None

2 = 25% or fewer

3 = 26 – 50%

4 = 51 – 75%

5 = 76 – 100%

Variable Name(s): BC4GPDIC, BC4GPDSG, BC4GPDIK, BC4GPDTS, BC4GPDUT

Country	Question / Option	Code	Documentation
AUSTRALIA	SCQ2-13A	D	Supporting the implementation of the state curriculum

Section 7: Eighth Grade – School Questionnaire

SCQ2-15A-D

Question:

In your school, are any of the following used to evaluate the practice of <eighth-grade> science teachers?

- A: Observations by the principal or senior staff
- B: Observations by inspectors or other persons external to the school
- C: Student achievement
- D: Teacher peer review
- 1 = Yes
- 2 = No

Variable Name(s): BC4SEPOS, BC4SEPOE, BC4SEPSA, BC4SEPTR

Country	Question / Option	Code	Documentation
BASQUE COUNTRY, SPAIN	SCQ2-15A	D	Observations by the principal, direction team, or department heads

SCQ2-16A-C

Question:

How difficult was it to fill <eighth-grade> teaching vacancies for this school year for the following subjects?

- A: Mathematics
- B: Science
- C: Computer science / information technology
- 1 = Were no vacancies in this subject
- 2 = Easy to fill vacancies
- 3 = Somewhat difficult
- 4 = Very difficult

Variable Name(s): BC4MFVAY, BC4SFVAY, BC4SFVCY

Country	Question / Option	Code	Documentation
NORWAY	SCQ2-16C	X	Option not administered or data not available

SCQ2-17A-C

Question:

Does your school currently use any incentives (e.g., pay, housing, signing bonus, smaller classes) to recruit or retain <eighth-grade> teachers in the following fields?

- A: Mathematics
- B: Science
- C: Other
- 1 = Yes
- 2 = No

Variable Name(s): BC4MRRTM, BC4SRRTS, BC4GRRTO

Country	Question / Option	Code	Documentation
BASQUE COUNTRY, SPAIN	SCQ2-17A-C	D	Stem of the question changed: Does your school currently use any incentives (e.g., pay, housing, signing bonus, smaller classes, transportation, or reduced price meals)?
ITALY	SCQ2-17A-C	X	Question not administered or data not available

SCQ2-18AA-AM**Question:**

How often does each of the following problem behaviors occur among <eighth-grade> students in your school?

- A: Arriving late at school
 - B: Absenteeism (i.e., unjustified absences)
 - C: Skipping class <hours/periods>
 - D: Violating dress code
 - E: Classroom disturbance
 - F: Cheating
 - G: Profanity
 - H: Vandalism
 - I: Theft
 - J: Intimidation or verbal abuse of other students
 - K: Physical injury to other students
 - L: Intimidation or verbal abuse of teachers or staff
 - M: Physical injury to teachers or staff
- 1 = Never
2 = Rarely
3 = Monthly
4 = Weekly
5 = Daily

Variable Name(s): BC4GFP01, BC4GFP02, BC4GFP03, BC4GFP04, BC4GFP05, BC4GFP06, BC4GFP07, BC4GFP08, BC4GFP09, BC4GFP10, BC4GFP11, BC4GFP12, BC4GFP13

Country	Question / Option	Code	Documentation
ARMENIA	SCQ2-18AC	D	Skipping class (hours/days)
BASQUE COUNTRY, SPAIN	SCQ2-18AC	D	Skipping some class periods
BOTSWANA	SCQ2-18AC	D	Skipping class periods
CYPRUS	SCQ2-18AC	D	Truancy
EL SALVADOR	SCQ2-18AC	D	Skipping class (hours/days)
ENGLAND	SCQ2-18AC	D	Missing (skipping) lessons
GEORGIA	SCQ2-18AC	D	Skipping some lessons
GHANA	SCQ2-18AC	D	Skipping periods
LITHUANIA	SCQ2-18AC	D	Unjustified skipping of particular lessons
SCOTLAND	SCQ2-18AC	D	Missing (skipping) lessons
SWEDEN	SCQ2-18AC	D	Skipping class lessons/shifts
TUNISIA	SCQ2-18AC	D	Skipping class in the teaching sessions
TURKEY	SCQ2-18AC	D	Not being present in the classroom

SCQ2-18BA-BM**Question:**

If the behavior occurs, how severe a problem does it present?

A: Arriving late at school

B: Absenteeism (i.e., unjustified absences)

C: Skipping class <hours/periods>

D: Violating dress code

E: Classroom disturbance

F: Cheating

G: Profanity

H: Vandalism

I: Theft

J: Intimidation or verbal abuse of other students

K: Physical injury to other students

L: Intimidation or verbal abuse of teachers or staff

M: Physical injury to teachers or staff

1 = Not a problem

2 = Minor problem

3 = Serious problem

Variable Name(s): BC4GSP01, BC4GSP02, BC4GSP03, BC4GSP04, BC4GSP05, BC4GSP06, BC4GSP07, BC4GSP08, BC4GSP09, BC4GSP10, BC4GSP11, BC4GSP12, BC4GSP13

Country	Question / Option	Code	Documentation
ARMENIA	SCQ2-18BC	D	Skipping class (hours/days)
BASQUE COUNTRY, SPAIN	SCQ2-18BC	D	Skipping some class periods
BOTSWANA	SCQ2-18BC	D	Skipping class periods
CYPRUS	SCQ2-18BC	D	Truancy
EL SALVADOR	SCQ2-18BC	D	Skipping class (hours/days)
ENGLAND	SCQ2-18BC	D	Missing (skipping) lessons
GEORGIA	SCQ2-18BC	D	Skipping some lessons
GHANA	SCQ2-18BC	D	Skipping periods
LITHUANIA	SCQ2-18BC	D	Unjustified skipping of particular lessons
SCOTLAND	SCQ2-18BC	D	Missing (skipping) lessons
SWEDEN	SCQ2-18BC	D	Skipping class lessons/shifts
TUNISIA	SCQ2-18BC	D	Skipping class in the teaching sessions
TURKEY	SCQ2-18BC	D	Not being present in the classroom

SCQ2-19A-S**Question:**

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

- A: Instructional materials (e.g., textbook)
 - B: Budget for supplies (e.g., paper, pencils)
 - C: School buildings and grounds
 - D: Heating/cooling and lighting systems
 - E: Instructional space (e.g., classrooms)
 - F: Special equipment for handicapped students
 - G: Computers for mathematics instruction
 - H: Computer software for mathematics instruction
 - I: Calculators for mathematics instruction
 - J: Library materials relevant to mathematics instruction
 - K: Audio-visual resources for mathematics instruction
 - L: Science laboratory equipment and materials
 - M: Computers for science instruction
 - N: Computer software for science instruction
 - O: Calculators for science instruction
 - P: Library materials relevant to science instruction
 - Q: Audio-visual resources for science instruction
 - R: Teachers
 - S: Computer support staff
- 1 = None
2 = A little
3 = Some
4 = A lot

Variable Name(s): BC4GST01, BC4GST02, BC4GST03, BC4GST04, BC4GST05, BC4GST06, BC4MST07, BC4MST08, BC4MST09, BC4MST10, BC4MST11, BC4SST12, BC4SST13, BC4SST14, BC4SST15, BC4SST16, BC4SST17, BC4GSH18, BC4GSH19

Country	Question / Option	Code	Documentation
RUSSIAN FEDERATION	SCQ2-19A-S	D	National options recoded to fit international categories: 1 = Don't have these problems/None 2 = A little 3 = Some 4 = A lot

SCQ2-20A-B**Question:**

- A: Does your school have a science laboratory?
 - B: Do teachers usually have assistance available when students are conducting science experiments?
- 1 = Yes
2 = No

Variable Name(s): BC4SSLAB, BC4STASE

Country	Question / Option	Code	Documentation
SLOVENIA	SCQ2-20A	D	Stem of the question changed: Does your school have a science laboratory for grade 8 students' use?



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