

TRENDS IN INTERNATIONAL MATHEMATICS AND SCIENCE STUDY

TIMSS



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



TIMSS 2011 User Guide
for the International Database

Supplement 2

National Adaptations of International
Background Questionnaires

Copyright © 2013 International Association for the Evaluation of Educational Achievement (IEA)

TIMSS 2011 User Guide for the International Database

Edited by Pierre Foy, Alka Arora, and Gabrielle M. Stanco

Publishers: TIMSS & PIRLS International Study Center,

Lynch School of Education, Boston College

and

International Association for the Evaluation of Educational Achievement (IEA)

Library of Congress Catalog Card Number: 2013930046

ISBN-13: 978-1-889938-13-4

For more information about TIMSS contact:

TIMSS & PIRLS International Study Center

Lynch School of Education

Boston College

Chestnut Hill, MA 02467

United States

tel: +1-617-552-1600

fax: +1-617-552-1203

e-mail: timss@bc.edu

timss.bc.edu

Boston College is an equal opportunity, affirmative action employer.

Printed and bound in the United States.

Supplement 2

National Adaptations of International Background Questionnaires

Overview

This supplement describes national adaptations made to the international version of the TIMSS 2011 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 2011 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 2011 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); and
- 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).

Section 1

Fourth Grade – Student Questionnaire

SQG-02A-B

Question:

When were you born?

A: Month B: Year
 1 = January 1 = 1998
 2 = February 2 = 1999
 3 = March 3 = 2000
 4 = April 4 = 2001
 5 = May 5 = 2002
 6 = June 6 = 2003
 7 = July 7 = 2004
 8 = August 8 = Other
 9 = September
 10 = October
 11 = November
 12 = December

Variable Name(s): ASBG02A, ASBG02B

Country	Item ID	Code	Documentation
Chinese Taipei	SQG-02B	D	Nationally defined options: 1 = The 87th year of the Republic Era (1998) 2 = The 88th year of the Republic Era (1999) 3 = The 89th year of the Republic Era (2000) 4 = The 90th year of the Republic Era (2001) 5 = The 91th year of the Republic Era (2002) 6 = The 92th year of the Republic Era (2003) 7 = The 93th year of the Republic Era (2004) 8 = Other
Iran, Islamic Rep. of	SQG-02A-B	D	Corresponding years and months of the Persian calendar used
Thailand	SQG-02B	D	National options recoded for international comparability: 1 = 1998 2 = 1999 3 = 2000 4 = 2001 5 = 2002 6 = 2003 7 = 2004 8 = Other / 1996 / 1997
Yemen (6)	SQG-02B	D	National options recoded for international comparability: 1 = 1998 2 = 1999 3 = 2000 4 = 2001 5 = 2002 6 = Option not administered or data not available 7 = Option not administered or data not available 8 = Other / 1996 / 1997

SQG-03**Question:**

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

1 = I always or almost always speak <language of test> at home

2 = I sometimes speak <language of test> and sometimes speak another language at home

3 = I never speak <language of test> at home

Variable Name(s): ASBG03

Country	Item ID	Code	Documentation
Florida, US	SQG-03	D	National options recoded for international comparability: 1 = Always / Almost always 2 = Sometimes 3 = Never
Hungary	SQG-03	D	National options recoded for international comparability: 1 = Always / Almost always 2 = Sometimes 3 = Never
North Carolina, US	SQG-03	D	National options recoded for international comparability: 1 = Always / Almost always 2 = Sometimes 3 = Never
Slovenia	SQG-03	X	Question not administered or data not available
United States	SQG-03	D	National options recoded for international comparability: 1 = Always / Almost always 2 = Sometimes 3 = Never

SQG-05A-K**Question:**

Do you have any of these things at your home?
 A: Computer
 B: Study desk/table for your use
 C: Books of your very own (do not count your school books)
 D: Your own room
 E: Internet connection
 F: <country-specific indicator of wealth>
 G: <country-specific indicator of wealth>
 H: <country-specific indicator of wealth>
 I: <country-specific indicator of wealth>
 J: <country-specific indicator of wealth>
 K: <country-specific indicator of wealth>
 1 = Yes
 2 = No

Variable Name(s): ASBG05A, ASBG05B, ASBG05C, ASBG05D, ASBG05E, ASBG05F, ASBG05G, ASBG05H, ASBG05I, ASBG05J, ASBG05K

Country	Item ID	Code	Documentation
Abu Dhabi, UAE	SQG-05F	D	Personal laptop
Abu Dhabi, UAE	SQG-05G	D	iPod
Abu Dhabi, UAE	SQG-05H	D	BlackBerry or iPhone
Abu Dhabi, UAE	SQG-05I	D	PlayStation Portable (PSP)
Abu Dhabi, UAE	SQG-05J-K	X	Option not administered or data not available
Alberta, Canada	SQG-05F	D	A quiet place to study
Alberta, Canada	SQG-05G	D	Books to help with your school work (e.g., dictionary, encyclopaedia)
Alberta, Canada	SQG-05H	D	A DVD player
Alberta, Canada	SQG-05I	D	Ipod/Mp3 player
Alberta, Canada	SQG-05J	D	Video game console (e.g., X-Box, Playstation, Wii)
Alberta, Canada	SQG-05K	D	Works of art (e.g., paintings)
Armenia	SQG-05F-K	X	Option not administered or data not available
Australia	SQG-05F	D	Digital camera (not on a mobile phone)
Australia	SQG-05G	D	Portable MP3 player (e.g., iPod)
Australia	SQG-05H	D	Musical instruments (e.g., piano, violin, guitar)
Australia	SQG-05I-K	X	Option not administered or data not available
Austria	SQG-05F	D	Your own cell phone
Austria	SQG-05G	D	Musical instrument(s)
Austria	SQG-05H	D	A TV for yourself

SECTION 1: FOURTH GRADE – STUDENT QUESTIONNAIRE

Austria	SQG-05I-K	X	Option not administered or data not available
Azerbaijan	SQG-05F	D	DVD player
Azerbaijan	SQG-05G	D	Satellite TV
Azerbaijan	SQG-05H	D	Cable TV
Azerbaijan	SQG-05I	D	Digital camera
Azerbaijan	SQG-05J	D	LCD television
Azerbaijan	SQG-05K	X	Option not administered or data not available
Bahrain	SQG-05F	D	Mobile phone
Bahrain	SQG-05G	D	BlackBerry®
Bahrain	SQG-05H	D	Car
Bahrain	SQG-05I	D	PSP® (PlayStation®Portable)
Bahrain	SQG-05J	D	iPod™
Bahrain	SQG-05K	D	PlayStation 3® or Xbox™
Belgium (Flemish)	SQG-05F	D	Musical instrument (e.g., piano, violin, flute)
Belgium (Flemish)	SQG-05G	D	A dictionary
Belgium (Flemish)	SQG-05H	D	Daily newspaper
Belgium (Flemish)	SQG-05I	D	A globe, geographical map, or atlas
Belgium (Flemish)	SQG-05J	D	A second car
Belgium (Flemish)	SQG-05K	D	A lawn mower
Botswana	SQG-05F	D	Calculator
Botswana	SQG-05G	D	Dictionary
Botswana	SQG-05H	D	Running tap water
Botswana	SQG-05I	D	Electricity
Botswana	SQG-05J	D	Television
Botswana	SQG-05K	D	Radio
Chile	SQG-05F	D	Shower with hot water
Chile	SQG-05G	D	Telephone
Chile	SQG-05H	D	Cable or Satellite TV
Chile	SQG-05I	D	Dishwasher
Chile	SQG-05J	D	Car (car, jeep, pick up light truck, van, etc.)

SECTION 1: FOURTH GRADE – STUDENT QUESTIONNAIRE

Chile	SQG-05K	D	Microwave oven
Chinese Taipei	SQG-05F	D	Security system
Chinese Taipei	SQG-05G	D	At least two bedrooms equipped with their own bathroom
Chinese Taipei	SQG-05H	D	My parents own a car for private use (not for business or public affairs)
Chinese Taipei	SQG-05I	D	Piano or violin
Chinese Taipei	SQG-05J	D	Family servant
Chinese Taipei	SQG-05K	X	Option not administered or data not available
Croatia	SQG-05F	D	Plasma or LCD television
Croatia	SQG-05G	D	DVD player
Croatia	SQG-05H	D	Your own cell phone
Croatia	SQG-05I	D	Game console
Croatia	SQG-05J-K	X	Option not administered or data not available
Czech Republic	SQG-05F	D	Dishwasher
Czech Republic	SQG-05G	D	Educational software
Czech Republic	SQG-05H	D	Camcorder
Czech Republic	SQG-05I	D	Home cinema set (screen, DVD player, speakers)
Czech Republic	SQG-05J	D	Dryer
Czech Republic	SQG-05K	D	Your own cell phone
Denmark	SQG-05F	D	Your own mobile phone
Denmark	SQG-05G	D	Your own computer
Denmark	SQG-05H	D	Your own TV
Denmark	SQG-05I	D	A car
Denmark	SQG-05J	D	Reference books like dictionaries/lexicon books
Denmark	SQG-05K	D	A cottage
Dubai, UAE	SQG-05F	D	Personal laptop
Dubai, UAE	SQG-05G	D	iPod
Dubai, UAE	SQG-05H	D	BlackBerry or iPhone
Dubai, UAE	SQG-05I	D	PlayStation Portable (PSP)
Dubai, UAE	SQG-05J-K	X	Option not administered or data not available
England	SQG-05F	D	Your own mobile phone

SECTION 1: FOURTH GRADE – STUDENT QUESTIONNAIRE

England	SQG-05G	D	Encyclopedia (book or CD ROM)
England	SQG-05H	D	Your own television
England	SQG-05I	D	Your own DVD player
England	SQG-05J	D	Any musical instrument
England	SQG-05K	D	A dishwasher
Finland	SQG-05F	D	Your own mobile phone
Finland	SQG-05G	D	Your own computer for you to use
Finland	SQG-05H	D	Your own TV
Finland	SQG-05I	D	A musical instrument (e.g., piano, guitar)
Finland	SQG-05J	D	Pet(s)
Finland	SQG-05K	X	Option not administered or data not available
Florida, US	SQG-05F	D	Encyclopedia (a book or CD)
Florida, US	SQG-05G	D	Play Station®, Game Cube®, Xbox®, or other TV/video game system
Florida, US	SQG-05H	D	VCR, DVD, or Blu-ray player
Florida, US	SQG-05I-K	X	Option not administered or data not available
Georgia	SQG-05F	D	Family car
Georgia	SQG-05G	D	Washing machine
Georgia	SQG-05H	D	Summer-cottage
Georgia	SQG-05I	D	DVD player
Georgia	SQG-05J-K	X	Option not administered or data not available
Germany	SQG-05F	D	A daily newspaper
Germany	SQG-05G	D	Your own mobile phone
Germany	SQG-05H	D	Learning computer software
Germany	SQG-05I	D	Piano
Germany	SQG-05J	D	Lawnmower
Germany	SQG-05K	D	A second car
Honduras	SQG-05F	D	Telephone or cell phone
Honduras	SQG-05G	D	TV
Honduras	SQG-05H	D	Stereo sound equipment
Honduras	SQG-05I	D	Washing machine

SECTION 1: FOURTH GRADE – STUDENT QUESTIONNAIRE

Honduras	SQG-05J	D	Electric stove
Honduras	SQG-05K	D	Car
Hong Kong SAR	SQG-05F	D	Taking piano or other orchestral instruments lessons (e.g., violin, clarinet, saxophone, etc.)
Hong Kong SAR	SQG-05G	D	Domestic help
Hong Kong SAR	SQG-05H	D	Car
Hong Kong SAR	SQG-05I	D	A private tutor
Hong Kong SAR	SQG-05J	D	Travelling by plane with my parents at least twice last year
Hong Kong SAR	SQG-05K	D	Going to art centres, museums, and cultural centres with my parents last year
Hungary	SQG-05F	D	Digital camera (not part of a phone)
Hungary	SQG-05G	D	Car owned by your family
Hungary	SQG-05H	D	Dishwasher
Hungary	SQG-05I	D	Your own iPod, MP3/MP4 player
Hungary	SQG-05J	D	Home cinema system
Hungary	SQG-05K	D	Your own bicycle
Iran, Islamic Rep. of	SQG-05F	D	Your own mobile phone
Iran, Islamic Rep. of	SQG-05G	D	Handycam
Iran, Islamic Rep. of	SQG-05H	D	Television
Iran, Islamic Rep. of	SQG-05I	D	Any kind of audio visual player
Iran, Islamic Rep. of	SQG-05J	D	Car
Iran, Islamic Rep. of	SQG-05K	D	Piano
Ireland	SQG-05F	D	A TV in your bedroom
Ireland	SQG-05G	D	A computer in your bedroom
Ireland	SQG-05H	D	Your own iPhone
Ireland	SQG-05I	D	Three cars or more
Ireland	SQG-05J	D	Three toilets or more
Ireland	SQG-05K	X	Option not administered or data not available
Italy	SQG-05F	D	Your own smart-phone
Italy	SQG-05G	D	Air conditioning
Italy	SQG-05H	D	Anti-theft device

SECTION 1: FOURTH GRADE – STUDENT QUESTIONNAIRE

Italy	SQG-05I	D	Dishwasher
Italy	SQG-05J	D	Hydro-massage bathtub
Italy	SQG-05K	D	Your own musical instrument (except flute)
Japan	SQG-05F	D	Calculator
Japan	SQG-05G	D	Dictionary
Japan	SQG-05H	D	Book or puzzle related to mathematics (except textbook, dictionary, workbook)
Japan	SQG-05I	D	Astronomical telescope
Japan	SQG-05J	D	Terrestrial globe
Japan	SQG-05K	D	Pictorial book of plants
Kazakhstan	SQG-05F	D	Mobile phone
Kazakhstan	SQG-05G	D	Plasma TV
Kazakhstan	SQG-05H	D	Car
Kazakhstan	SQG-05I	D	Digital photo or video camera
Kazakhstan	SQG-05J	D	Automatic washing machine
Kazakhstan	SQG-05K	D	Dishwasher
Korea, Rep. of	SQG-05F	D	Car
Korea, Rep. of	SQG-05G	D	Air-conditioner
Korea, Rep. of	SQG-05H	D	Water purifier
Korea, Rep. of	SQG-05I	D	Digital television (ex. wall-mounted television, flat-panel television)
Korea, Rep. of	SQG-05J	D	Kimchi refrigerator for maturing
Korea, Rep. of	SQG-05K	D	Air cleaner
Kuwait	SQG-05F	D	Video player
Kuwait	SQG-05G	D	DVD player
Kuwait	SQG-05H	D	Electronic games
Kuwait	SQG-05I	D	Mobile phone
Kuwait	SQG-05J	D	TV
Kuwait	SQG-05K	D	Projector
Lithuania	SQG-05F	D	Your own mobile phone
Lithuania	SQG-05G	D	Video / DVD player

SECTION 1: FOURTH GRADE – STUDENT QUESTIONNAIRE

Lithuania	SQG-05H	D	Encyclopedia, dictionary
Lithuania	SQG-05I	D	Automatic washing machine
Lithuania	SQG-05J	D	Dishwasher
Lithuania	SQG-05K	D	Car
Malta	SQG-05F	D	Video game console (e.g., PlayStation®, GameCube®, Xbox®)
Malta	SQG-05G	D	Mobile phone
Malta	SQG-05H	D	Mp3 / iPod®
Malta	SQG-05I	D	Digital camera
Malta	SQG-05J	D	Laptop / Netbook / PDA
Malta	SQG-05K	D	DVD player
Morocco	SQG-05F	D	TV set
Morocco	SQG-05G	D	Dish antenna
Morocco	SQG-05H	D	Car
Morocco	SQG-05I	D	Modern furniture
Morocco	SQG-05J	D	Cell phone
Morocco	SQG-05K	D	Electronic games
Netherlands	SQG-05F-K	X	Option not administered or data not available
New Zealand	SQG-05F	D	Musical instruments (e.g., piano, violin, guitar)
New Zealand	SQG-05G	D	Clothes dryer
New Zealand	SQG-05H	D	Dishwasher
New Zealand	SQG-05I	D	Two or more bathrooms
New Zealand	SQG-05J	D	Your own computer or laptop
New Zealand	SQG-05K	D	Swimming pool or spa pool (do not include paddling pools)
North Carolina, US	SQG-05F	D	Encyclopedia (a book or CD)
North Carolina, US	SQG-05G	D	Play Station®, Game Cube®, Xbox®, or other TV/video game system
North Carolina, US	SQG-05H	D	VCR, DVD, or Blu-ray player
North Carolina, US	SQG-05I-K	X	Option not administered or data not available
Northern Ireland	SQG-05F	D	Dishwasher
Northern Ireland	SQG-05G	D	Any musical instrument
Northern Ireland	SQG-05H	D	Encyclopedia (books or CD-ROM)

SECTION 1: FOURTH GRADE – STUDENT QUESTIONNAIRE

Northern Ireland	SQG-05I	D	Your own mobile phone
Northern Ireland	SQG-05J	D	Your own television
Northern Ireland	SQG-05K	D	Your own DVD player
Norway	SQG-05F	D	Your own mobile phone
Norway	SQG-05G	D	Your own TV
Norway	SQG-05H	D	Flat-screen TV
Norway	SQG-05I	D	More than one computer
Norway	SQG-05J	D	Mp3 Player
Norway	SQG-05K	D	Computer games
Oman	SQG-05F	D	Mobile Phone
Oman	SQG-05G	D	Television
Oman	SQG-05H	D	Musical instrument(s)
Oman	SQG-05I	D	PlayStation
Oman	SQG-05J	D	iPod
Oman	SQG-05K	D	CD Player
Ontario, Canada	SQG-05F	D	A quiet place to study
Ontario, Canada	SQG-05G	D	Books to help with your school work (e.g., dictionary, encyclopedia)
Ontario, Canada	SQG-05H	D	DVD player
Ontario, Canada	SQG-05I	D	iPod / MP3 player
Ontario, Canada	SQG-05J	D	Video-game console (e.g., X-Box, PlayStation, Wii)
Ontario, Canada	SQG-05K	D	Works of art (e.g., paintings)
Poland	SQG-05F	D	Computer games
Poland	SQG-05G	D	Video equipment in your room
Poland	SQG-05H-K	X	Option not administered or data not available
Portugal	SQG-05F	D	Dishwasher
Portugal	SQG-05G	D	Cable TV
Portugal	SQG-05H	D	Plasma or LCD TV
Portugal	SQG-05I	D	Air conditioning
Portugal	SQG-05J-K	X	Option not administered or data not available
Qatar	SQG-05F	D	Private house maid

SECTION 1: FOURTH GRADE – STUDENT QUESTIONNAIRE

Qatar	SQG-05G	D	Private car driver
Qatar	SQG-05H-K	X	Option not administered or data not available
Quebec, Canada	SQG-05F	D	A quiet place to study
Quebec, Canada	SQG-05G	D	Books to help with your school work (e.g., dictionary, encyclopedia)
Quebec, Canada	SQG-05H	D	DVD player
Quebec, Canada	SQG-05I	D	iPod / MP3 player
Quebec, Canada	SQG-05J	D	Video-game console (e.g., X-Box, PlayStation, Wii)
Quebec, Canada	SQG-05K	D	Works of art (e.g., paintings)
Romania	SQG-05F	D	Your own mobile phone
Romania	SQG-05G	D	LCD/LED TV set
Romania	SQG-05H	D	Home-video system
Romania	SQG-05I	D	Swimming pool
Romania	SQG-05J	D	Car
Romania	SQG-05K	D	Summer house
Russian Federation	SQG-05F	D	Mobile phone (for your use)
Russian Federation	SQG-05G	D	LCD or PDP TV
Russian Federation	SQG-05H	D	Car (one or more)
Russian Federation	SQG-05I	D	Digital camera or video camera
Russian Federation	SQG-05J	D	Home cinema
Russian Federation	SQG-05K	D	Dish-washing machine
Saudi Arabia	SQG-05F	D	Bicycle
Saudi Arabia	SQG-05G	D	Motorcycle
Saudi Arabia	SQG-05H	D	Your own TV in your room
Saudi Arabia	SQG-05I	D	DVD player
Saudi Arabia	SQG-05J	D	Playstation
Saudi Arabia	SQG-05K	D	Mobile phone
Serbia	SQG-05F-K	X	Option not administered or data not available
Singapore	SQG-05F	D	Car
Singapore	SQG-05G	D	Domestic help (e.g., maid)
Singapore	SQG-05H	D	Air-conditioner

SECTION 1: FOURTH GRADE – STUDENT QUESTIONNAIRE

Singapore	SQG-05I	D	Your own mobile phone
Singapore	SQG-05J	D	Your own multi-media player (e.g., MP3/DVD player, iPod)
Singapore	SQG-05K	D	Your own video games (e.g., Nintendo®, Gameboy® or PlayStation®)
Slovak Republic	SQG-05F	D	We have dictionaries
Slovak Republic	SQG-05G	D	We have encyclopaedias
Slovak Republic	SQG-05H	D	I have my own mobile phone
Slovak Republic	SQG-05I	D	We have a car
Slovak Republic	SQG-05J-K	X	Option not administered or data not available
Slovenia	SQG-05F	D	Encyclopedias, dictionaries etc. (printed or on computer)
Slovenia	SQG-05G	D	Sports equipment (e.g., Skiing equipment, mountain bikes, a boat)
Slovenia	SQG-05H	D	Payed domestic help
Slovenia	SQG-05I	D	I go on vacation (travel) with my parents every year
Slovenia	SQG-05J	D	I go to the music school
Slovenia	SQG-05K	D	I do sports
Spain	SQG-05F	D	CD or DVD player
Spain	SQG-05G-K	X	Option not administered or data not available
Sweden	SQG-05F	D	Your own mobile phone
Sweden	SQG-05G	D	Your own TV
Sweden	SQG-05H	D	Globe
Sweden	SQG-05I	D	Piano
Sweden	SQG-05J	D	Musical instruments other than piano
Sweden	SQG-05K	X	Option not administered or data not available
Thailand	SQG-05F	D	Laptop
Thailand	SQG-05G	D	Talking dictionary
Thailand	SQG-05H	D	Television
Thailand	SQG-05I	D	MP3 player
Thailand	SQG-05J	D	VCD player, DVD player
Thailand	SQG-05K	D	Telephone
Tunisia	SQG-05F	D	Bathroom
Tunisia	SQG-05G	D	DVD Player

SECTION 1: FOURTH GRADE – STUDENT QUESTIONNAIRE

Tunisia	SQG-05H	D	Car
Tunisia	SQG-05I	D	Air conditioner
Tunisia	SQG-05J	D	Freezer
Tunisia	SQG-05K	D	Washing machine
Turkey	SQG-05F	D	Dishwasher
Turkey	SQG-05G	D	Washing machine
Turkey	SQG-05H	D	Heating system
Turkey	SQG-05I	D	Cooling system (air conditioner)
Turkey	SQG-05J	D	DVD/VCD Player
Turkey	SQG-05K	X	Option not administered or data not available
United Arab Emirates	SQG-05F	D	Personal laptop
United Arab Emirates	SQG-05G	D	iPod
United Arab Emirates	SQG-05H	D	BlackBerry or iPhone
United Arab Emirates	SQG-05I	D	PlayStation Portable (PSP)
United Arab Emirates	SQG-05J-K	X	Option not administered or data not available
United States	SQG-05F	D	Encyclopedia (a book or CD)
United States	SQG-05G	D	Play Station®, Game Cube®, Xbox®, or other TV/video game system
United States	SQG-05H	D	VCR, DVD, or Blu-ray player
United States	SQG-05I-K	X	Option not administered or data not available
Yemen	SQG-05F	D	TV
Yemen	SQG-05G	D	Satellite dish
Yemen	SQG-05H	D	Private car
Yemen	SQG-05I-K	X	Option not administered or data not available
Yemen (6)	SQG-05F	D	TV
Yemen (6)	SQG-05G	D	Satellite dish
Yemen (6)	SQG-05H	D	Private car
Yemen (6)	SQG-05I-K	X	Option not administered or data not available

SQG-06A-C**Question:**

How often do you use a computer in each of these places?

A: At home

B: At school

C: Some other place

1 = Every day or almost every day

2 = Once or twice week

3 = Once or a twice a month

4 = Never or almost never

Variable Name(s): ASBG06A, ASBG06B, ASBG06C

Country	Item ID	Code	Documentation
Alberta, Canada	SQG-06C	D	At the public library
Ontario, Canada	SQG-06C	D	At the public library

SQMS-03A-G**Question:**

How much do you agree with these statements about mathematics?

A: I usually do well in mathematics

B: Mathematics is harder for me than for many of my classmates

C: I am just not good at mathematics

D: I learn things quickly in mathematics

E: I am good at working out difficult mathematics problems

F: My teacher tells me I am good at mathematics

G: Mathematics is harder for me than any other subject

1 = Agree a lot

2 = Agree a little

3 = Disagree a little

4 = Disagree a lot

Variable Name(s): ASBM03A, ASBM03B, ASBM03C, ASBM03D, ASBM03E, ASBM03F, ASBM03G

Country	Item ID	Code	Documentation
Belgium (Flemish)	SQMS-03E	X	Option not administered or data not available

SQMS-04A-G**Question:**

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

- A: I enjoy learning science
 - B: I wish I did not have to study science
 - C: I read about science in my spare time
 - D: Science is boring
 - E: I learn many interesting things in science
 - F: I like science
 - G: It is important to do well in science
- 1 = Agree a lot
 2 = Agree a little
 3 = Disagree a little
 4 = Disagree a lot

Variable Name(s): ASBS04A, ASBS04B, ASBS04C, ASBS04D, ASBS04E, ASBS04F, ASBS04G

Country	Item ID	Code	Documentation
Kazakhstan	SQMS-04C	D	I read about nature in my spare time

ITLANG**Question:**

LANGUAGE OF TEST

Variable Name(s): ITLANG

Country	Item ID	Code	Documentation
Abu Dhabi, UAE	ITLANG	D	1 = Arabic 2 = English
Alberta, Canada	ITLANG	D	1 = English 2 = French
Armenia	ITLANG	D	1 = Armenian
Australia	ITLANG	D	1 = English
Austria	ITLANG	D	1 = German
Azerbaijan	ITLANG	D	1 = Azerbaijani
Bahrain	ITLANG	D	1 = Arabic 2 = English
Belgium (Flemish)	ITLANG	D	1 = Dutch
Botswana	ITLANG	D	1 = English
Chile	ITLANG	D	1 = Spanish
Chinese Taipei	ITLANG	D	1 = Mandarin
Croatia	ITLANG	D	1 = Croatian / Czech / Italian
Czech Republic	ITLANG	D	1 = Czech
Denmark	ITLANG	D	1 = Danish
Dubai, UAE	ITLANG	D	1 = Arabic 2 = English
England	ITLANG	D	1 = English
Finland	ITLANG	D	1 = Finnish 2 = Swedish
Florida, US	ITLANG	D	1 = English
Georgia	ITLANG	D	1 = Georgian
Germany	ITLANG	D	1 = German
Honduras	ITLANG	D	1 = Spanish
Hong Kong SAR	ITLANG	D	1 = Chinese 2 = English

SECTION 1: FOURTH GRADE – STUDENT QUESTIONNAIRE

Hungary	ITLANG	D	1 = Hungarian
Iran, Islamic Rep. of	ITLANG	D	1 = Farsi
Ireland	ITLANG	D	1 = English 2 = Irish
Italy	ITLANG	D	1 = Italian 2 = German
Japan	ITLANG	D	1 = Japanese
Kazakhstan	ITLANG	D	1 = Kazakh 2 = Russian
Korea, Rep. of	ITLANG	D	1 = Korean
Kuwait	ITLANG	D	1 = Arabic
Lithuania	ITLANG	D	1 = Lithuanian
Malta	ITLANG	D	1 = English
Morocco	ITLANG	D	1 = Arabic
Netherlands	ITLANG	D	1 = Dutch
New Zealand	ITLANG	D	1 = English
North Carolina, US	ITLANG	D	1 = English
Northern Ireland	ITLANG	D	1 = English
Norway	ITLANG	D	1 = Norwegian, Bokmal 2 = Norwegian, Nynorsk
Oman	ITLANG	D	1 = Arabic 2 = English
Ontario, Canada	ITLANG	D	1 = English 2 = French
Poland	ITLANG	D	1 = Polish
Portugal	ITLANG	D	1 = Portuguese
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 2 = English
Serbia	ITLANG	D	1 = Serbian language

SECTION 1: FOURTH GRADE – STUDENT QUESTIONNAIRE

Singapore	ITLANG	D	1 = English
Slovak Republic	ITLANG	D	1 = Slovak language 2 = Hungarian language
Slovenia	ITLANG	D	1 = Slovene
Spain	ITLANG	D	1 = Castilian 2 = Basque 3 = Catalan 4 = Galician 5 = Valencian
Sweden	ITLANG	D	1 = Swedish
Thailand	ITLANG	D	1 = Thai
Tunisia	ITLANG	D	1 = Arabic
Turkey	ITLANG	D	1 = Turkish
United Arab Emirates	ITLANG	D	1 = Arabic 2 = English
United States	ITLANG	D	1 = English
Yemen	ITLANG	D	1 = Arabic
Yemen (6)	ITLANG	D	1 = Arabic

Section 2

Fourth Grade – Teacher Questionnaire

TQG-04**Question:**

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

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

Variable Name(s): ATBG04

Country	Item ID	Code	Documentation
Abu Dhabi, UAE	TQG-04	D	Nationally defined options: 1 = Did not complete secondary school 2 = Secondary school 3 = Teacher Training Certificate, Apprenticeship or Traineeship 4 = A college diploma 5 = Bachelor's degree 6 = Master's degree or higher
Alberta, Canada	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = College or cégep 4 = Business, trade or vocational school 5 = University - Bachelor's degree 6 = University - Master's or PhD or equivalent
Armenia	TQG-04	D	National options recoded for international comparability: 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 6 = Higher education / Ph.D. or higher
Australia	TQG-04	D	National options recoded for international comparability: 1 = Did not finish secondary school 2 = Secondary school 3 = TAFE training certificate, apprenticeship or traineeship 4 = TAFE or College Diploma (e.g., Diploma in Information Technology, Diploma in Veterinary Nursing) 5 = Undergraduate degree 6 = Postgraduate or Graduate Diploma (e.g., Diploma of Education) / Master's degree or higher
Austria	TQG-04	D	National options recoded for international comparability: 1 = Option not administered or data not available 2 = School with school-leaving exam (e.g., AHS, BHS, HTL, HAK) 3 = Option not administered or data not available 4 = Academy of pedagogy 5 = University or college (Bachelor's degree) 6 = University or college (Diploma, Master's degree or PhD)
Azerbaijan	TQG-04	D	Nationally defined options: 1 = Did not complete general secondary education or secondary vocational education 2 = General secondary education or secondary vocational education 3 = Technical vocational education 4 = Professional education 5 = University education, first degree (Bachelor's degree) 6 = University education, Master's degree or higher

SECTION 2: FOURTH GRADE – TEACHER QUESTIONNAIRE

Bahrain	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary education 2 = Secondary education 3 = Diploma 4 = Option not administered or data not available 5 = Bachelor's degree 6 = Post-graduate diploma / Master's or higher
Belgium (Flemish)	TQG-04	D	National options recoded for international comparability: 1 = Secondary education not finished 2 = Secondary education 3 = Specialization year or 7th year secondary education 4 = Option not administered or data not available 5 = Higher education, 1st cycle / Higher education, 2nd cycle or university education 6 = Option not administered or data not available
Botswana	TQG-04	D	Nationally defined options: 1 = Did not complete Senior Secondary 2 = Senior Secondary 3 = Primary Teaching Certificate 4 = Diploma 5 = First degree 6 = Masters degree or higher
Chile	TQG-04	D	Nationally defined options: 1 = Did not finish secondary school 2 = Secondary school 3 = Post secondary studies at a center of technical education 4 = Post secondary studies at a professional institute 5 = Post secondary studies at a university (licentiate or equivalent) 6 = Post graduate studies (master or doctorate)
Chinese Taipei	TQG-04	D	Nationally defined options: 1 = Junior high school 2 = Senior high school or vocational high school 3 = Five-year or two-year junior college 4 = Two-year or four-year vocational college 5 = Comprehensive university or college, Bachelor degree 6 = Master degree or higher
Croatia	TQG-04	D	Nationally defined options: 1 = Did not complete high school 2 = High school 3 = Professional training after completing high school 4 = Non-university post-secondary education (two or three years) or professional studies 5 = University undergraduate education (Bachelor's degree, BA) 6 = Master's degree (MA) and/or Doctorate of Science (PhD)
Czech Republic	TQG-04	D	Nationally defined options: 1 = Did not complete upper secondary education 2 = Upper secondary education 3 = Extension studies 4 = Higher professional school or conservatory 5 = University - Bachelor degree 6 = University - Master degree or higher
Denmark	TQG-04	D	Nationally defined options: 1 = Did not complete Gymnasium, HF, HHX or HTX 2 = Gymnasium, HF, HHX, HTX 3 = Short cycle higher education of less than 2 years (e.g., supplementary courses at the upper secondary level, workshops) 4 = Short or medium cycle higher education of at least 2 years 5 = Higher education of at least 3 years 6 = Long cycle higher education of 5 years or more (e.g., candidate, Ph.D. etc.)

SECTION 2: FOURTH GRADE - TEACHER QUESTIONNAIRE

Dubai, UAE	TQG-04	D	Nationally defined options: 1 = Did not complete secondary school 2 = Secondary school 3 = Teacher Training Certificate, Apprenticeship or Traineeship 4 = A college diploma 5 = Bachelor's degree 6 = Master's degree or higher
England	TQG-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
Finland	TQG-04	D	Nationally defined options: 1 = No upper secondary degree 2 = Upper secondary degree, academic or vocational 3 = Post-secondary vocational degree 4 = Higher vocational degree 5 = Lower degree at the university or polytechnic, 3 years 6 = Higher degree at the university or polytechnic, 5 years, or post-graduate degree at the university
Florida, US	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in vocational/technical program 5 = Academic Associates degree (AA) 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)
Georgia	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary school 2 = Secondary school (11 years) / Secondary vocational school (after 9th grade) 3 = Post-secondary vocational school (after 11th grade) 4 = High vocational school 5 = Bachelor's degree (4 years) 6 = Master's degree or PhD (also includes former 5 years of university education)
Germany	TQG-04	D	National options recoded for international comparability: 1 = I do not have a University of Applied Science entrance qualification/a degree from vocational school (apprenticeship, training)/ technical college/professional school/ foreman school or technical school or from a school in the health sector 2 = "Abitur" certificate/higher education entrance qualification 3 = Option not administered or data not available 4 = University of Applied Science entrance qualification/a degree from vocational school (apprenticeship, training)/ technical college /professional school/foremanschool or technical school or from a school in the health sector 5 = University degree (bachelor)/degree from a University of cooperative education/diploma (University of Applied Science)/degree from a University of Applied Science / University degree (masters, diploma, state examination) 6 = Above University degree (masters, diploma, state examination), e.g., PhD

SECTION 2: FOURTH GRADE – TEACHER QUESTIONNAIRE

Honduras	TQG-04	D	Nationally defined options: 1 = Did not complete High-School 2 = High-School 3 = Non-university technical education 4 = Technical university 5 = Undergraduate university education (BA, Engineering, etc.) 6 = Master or higher
Hong Kong SAR	TQG-04	D	Nationally defined options: 1 = Did not complete secondary education 2 = Secondary education (F.5, F.6, or F.7) 3 = Vocational training after secondary education 4 = Certificate in Education (awarded by the Institute of Education or the former Colleges of Education), a diploma, or an associate degree 5 = Bachelor's degree 6 = Master's degree or above
Hungary	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary school 2 = Secondary school 3 = Vocational programs (usually two years) based on Maturity examination 4 = Accredited post secondary vocational programs 5 = College, or university BA level 6 = University, or university MA level / Higher than university or university MA level (e.g., PhD, University post-graduate programme)
Iran, Islamic Rep. of	TQG-04	D	Nationally defined options: 1 = Lower than high school education 2 = High school education 3 = Pre-university college 4 = Two years degree in technical subjects or in theoretical subjects 5 = First degree 6 = Master degree or higher
Ireland	TQG-04	D	Nationally defined options: 1 = Did not complete Leaving Cert. 2 = Leaving Cert. 3 = A post-Leaving Cert. course or apprenticeship 4 = A third level certificate or diploma (not to degree level) 5 = A third level degree 6 = A postgraduate degree (Masters or PhD)
Italy	TQG-04	D	National options recoded for international comparability: 1 = Option not administered or data not available 2 = Upper secondary education diploma 3 = 2nd level regional vocational training diploma 4 = Academy of art, Academy of dramatic art, Design Institute, Conservatoire Diploma 5 = University degree 6 = Post-university degree (e.g., doctorate, post-graduate school, master)
Japan	TQG-04	D	Nationally defined options: 1 = Did not complete the upper secondary school 2 = Upper secondary school 3 = Junior college 4 = Specific college (e.g., Meteorological College, National Defence Academy) 5 = University or college 6 = Graduate school or higher

SECTION 2: FOURTH GRADE - TEACHER QUESTIONNAIRE

Kazakhstan	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary education 2 = Secondary general education or first-level vocational education 3 = Second-level vocational education / Secondary level vocational education 4 = Option not administered or data not available 5 = Higher education (bachelor or professional degree) 6 = Second higher education, candidate / master or doctor (PhD)
Korea, Rep. of	TQG-04	D	National options recoded for international comparability: 1 = Did not complete the high school 2 = High school 3 = Option not administered or data not available 4 = College of 2 or 3 years 5 = University of 4 years 6 = Graduate school
Kuwait	TQG-04	D	Nationally defined options: 1 = Did not complete secondary school 2 = Secondary school 3 = Post-secondary education (Diploma) 4 = Higher education diploma 5 = University education 6 = Master's degree
Lithuania	TQG-04	D	Nationally defined options: 1 = Did not complete secondary education 2 = Secondary education 3 = Post-secondary non-tertiary education (1-2 years) 4 = Higher non-university education (college) 5 = Higher education - Bachelor's degree or equivalent 6 = Higher education - Master's degree or higher
Malta	TQG-04	D	Nationally defined options: 1 = Did not complete upper secondary education (advanced level / vocational certificate or diploma from MCAST/ITS) 2 = Upper secondary education (advanced level / vocational certificate or diploma from MCAST/ITS) 3 = Post-secondary education (higher vocational diploma / higher national vocational diploma from MCAST/ITS) 4 = Certificate / diploma from university / vocational degree from MCAST/ITS 5 = Bachelor's degree 6 = Postgraduate degree (Master's, PhD)
Morocco	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary preparatory / Secondary preparatory 2 = Qualifying secondary (high school) 3 = Option not administered or data not available 4 = Option not administered or data not available 5 = Bachelor's Degree 6 = Master's degree / Doctorate
Netherlands	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary education 2 = Secondary general education / secondary vocational education 3 = Option not administered or data not available 4 = Option not administered or data not available 5 = Higher vocational education 6 = University / PhD

SECTION 2: FOURTH GRADE – TEACHER QUESTIONNAIRE

New Zealand	TQG-04	D	National options recoded for international comparability: 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 or other national or vocational diploma 5 = Bachelor's degree 6 = Bachelor's Honours, Post-graduate diploma, or Master's degree / PhD
North Carolina, US	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in vocational/technical program 5 = Academic Associates degree (AA) 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)
Northern Ireland	TQG-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, BTEC Higher education or Certificate of Education 5 = Bachelor's degree 6 = Postgraduate degree
Norway	TQG-04	D	Nationally defined options: 1 = Did not complete upper secondary school 2 = Upper secondary school 3 = Education beyond upper secondary school, but not university or college 4 = University or college education of less than three years 5 = University or college education of three years or more 6 = University or college and research education (PhD)
Oman	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary school 2 = Secondary school 3 = Diploma 4 = Option not administered or data not available 5 = University, first degree 6 = Beyond the first degree (Master's degree or higher)
Ontario, Canada	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = College or cégep 4 = Business, trade or vocational school 5 = University - Bachelor's degree 6 = University - Master's or PhD or equivalent
Poland	TQG-04	D	Nationally defined options: 1 = Did not complete secondary school 2 = Secondary school 3 = Post secondary non-tertiary school 4 = Teacher college 5 = Higher school, first degree 6 = Higher school, second degree or higher
Portugal	TQG-04	D	National options recoded for international comparability: 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 = Associate's degree 5 = Bachelor's degree 6 = Master's degree or doctorate

SECTION 2: FOURTH GRADE - TEACHER QUESTIONNAIRE

Qatar	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary level education 2 = Secondary level education 3 = Diploma level education (post-secondary but before university) 4 = Option not administered or data not available 5 = University degree 6 = Post university degree or higher
Quebec, Canada	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = College or cégep 4 = Business, trade or vocational school 5 = University - Bachelor's degree 6 = University - Master's or PhD or equivalent
Romania	TQG-04	D	Nationally defined options: 1 = Did not complete upper secondary education 2 = Upper secondary education 3 = Post-high school education 4 = Higher education - short duration 5 = Higher education - long duration 6 = Post university studies
Russian Federation	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary education 2 = Secondary general education 3 = Initial vocational education / Secondary vocational education 4 = Option not administered or data not available 5 = Option not administered or data not available 6 = Higher education (bachelor or master degree, specialist) / Second university degree, candidate or doctor of sciences
Saudi Arabia	TQG-04	D	National options recoded for international comparability: 1 = Option not administered or data not available 2 = Secondary education 3 = Teaching diploma 4 = Option not administered or data not available 5 = Bachelor degree 6 = Master degree / Doctorate / Post-doctorate degree
Serbia	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary education 2 = Secondary education 3 = College education 4 = Option not administered or data not available 5 = Higher education, Bachelor's degree 6 = Specialization, Master's degree or PhD
Singapore	TQG-04	D	Nationally defined options: 1 = Did not complete Upper Secondary 2 = Upper Secondary 3 = Post-secondary Non-tertiary (e.g., JC, CI, ITE) 4 = Polytechnic 5 = University First Degree 6 = University Second Degree or higher (e.g., Master's, PhD)
Slovak Republic	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary school 2 = Secondary school 3 = Post-secondary qualification 4 = Higher professional education 5 = Bachelor's degree 6 = Master's degree / Higher studies/ PhD

SECTION 2: FOURTH GRADE – TEACHER QUESTIONNAIRE

Slovenia	TQG-04	D	National options recoded for international comparability: 1 = Option not administered or data not available 2 = Higher secondary school 3 = Option not administered or data not available 4 = 2 to 3 years of university studies 5 = 4 years of university studies 6 = Master's degree or Ph.D.
Spain	TQG-04	D	Nationally defined options: 1 = Did not complete secondary or vocational education 2 = Secondary or vocational education 3 = Vocational education, second degree 4 = Vocational education, higher degree 5 = Diploma or university degree 6 = Master's degree or PhD
Sweden	TQG-04	D	Nationally defined options: 1 = Did not complete secondary school 2 = Secondary school 3 = Tertiary education, not university or college 4 = Higher education up to 2 years (e.g., professional university or college degree) 5 = University or college degree 3-5 years (e.g., bachelor or master degree) 6 = Postgraduate education (licentiate or PhD degree)
Thailand	TQG-04	D	National options recoded for international comparability: 1 = Did not complete upper secondary school or vocational certificate 2 = Upper secondary school or vocational certificate 3 = Diploma or high vocational certificate 4 = Option not administered or data not available 5 = Bachelor's degree (4 years) / Bachelor's degree (courses of 5 years or more) 6 = Master's degree or higher
Tunisia	TQG-04	D	Nationally defined options: 1 = Did not complete secondary school 2 = Secondary education 3 = Professional training after secondary education (baccalaureate) 4 = 1st cycle of university education 5 = 2nd cycle of university education 6 = 3rd cycle of university education or higher
Turkey	TQG-04	D	National options recoded for international comparability: 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 (BA) 6 = Tertiary education, second Degree (MS/MA, PhD)
United Arab Emirates	TQG-04	D	Nationally defined options: 1 = Did not complete secondary school 2 = Secondary school 3 = Teacher Training Certificate, Apprenticeship or Traineeship 4 = A college diploma 5 = Bachelor's degree 6 = Master's degree or higher
United States	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in vocational/technical program 5 = Academic Associates degree (AA) 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)

SECTION 2: FOURTH GRADE - TEACHER QUESTIONNAIRE

Yemen	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary school 2 = Secondary school 3 = Post-secondary diploma 4 = Option not administered or data not available 5 = University (Bachelor's degree) 6 = Master's degree
Yemen (6)	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary school 2 = Secondary school 3 = Post Secondary diploma 4 = Option not administered or data not available 5 = University (Bachelor's degree) 6 = Master's degree

TQG-05AA-AF**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: <language of test>

F: Other

1 = Yes

2 = No

Variable Name(s): ATBG05AA, ATBG05AB, ATBG05AC, ATBG05AD, ATBG05AE, ATBG05AF

Country	Item ID	Code	Documentation
Australia	TQG-05AA	D	Education- Primary
Austria	TQG-05AA	D	Education - Primary School / Education for special schools
Austria	TQG-05AB	D	Education - secondary school / Education for higher schools / Education for special schools / Teaching degree / University degree in German, Maths or Science
Austria	TQG-05AC-AE	X	Option not administered or data not available
Austria	TQG-05AF	D	I do not have a teacher education
Belgium (Flemish)	TQG-05AA	D	Professional bachelor degree in primary education
Belgium (Flemish)	TQG-05AA-AF	D	Stem of the question changed: Which teacher training did you complete with a diploma?
Belgium (Flemish)	TQG-05AB	D	Professional bachelor degree in secondary education
Belgium (Flemish)	TQG-05AC-AF	X	Option not administered or data not available
Croatia	TQG-05AA	D	Elementary education: Faculty of education
Croatia	TQG-05AB-AC,AE	X	Option not administered or data not available
Czech Republic	TQG-05AA-AF	D	University
Denmark	TQG-05AA-AF	D	Higher education
Finland	TQG-05AB	X	Option not administered or data not available
Florida, US	TQG-05AA-AF	D	College or university
Germany	TQG-05AA	D	Completed courses for primary school/completed courses for lower grades
Germany	TQG-05AA-AF	D	Stem of the question changed: What were your main areas of study?
Germany	TQG-05AB	D	Completed courses for higher/secondary education I or II / completed courses for vocational schools
Germany	TQG-05AD	D	Biology / Geography / Chemistry / Physics / Science

SECTION 2: FOURTH GRADE - TEACHER QUESTIONNAIRE

Germany	TQG-05AF	D	Completed courses for special needs school / Foreign languages / Other subjects
Honduras	TQG-05AA-AF	D	University education
Hungary	TQG-05AA	D	Primary school teacher (grade 1-4) / Primary school teacher (grade 5-8) of any specialization
Hungary	TQG-05AA-AF	D	Tertiary education
Hungary	TQG-05AB	D	Secondary school teacher of any specialization
Ireland	TQG-05AA-AF	D	Third level education
Italy	TQG-05AE	D	Literature
Kazakhstan	TQG-05AA-AF	D	Professional education
Korea, Rep. of	TQG-05AA-AF	D	University (or the graduate school)
Lithuania	TQG-05AA-AF	D	Further post-secondary or higher education
Malta	TQG-05AA-AF	D	Tertiary
Malta	TQG-05AF	D	Other / Maltese
Morocco	TQG-05AA-AF	D	University studies
Netherlands	TQG-05AA	D	4-year teacher training for primary school teachers (PABO) / 2-year PABO / Teacher training for kindergarten teachers (PO)
Netherlands	TQG-05AA-AF	D	Stem of the question changed: Which teacher training did you complete with a diploma?
Netherlands	TQG-05AB	D	Teacher training for secondary school teachers
Netherlands	TQG-05AC-AE	X	Option not administered or data not available
Netherlands	TQG-05AF	D	Not yet finished
North Carolina, US	TQG-05AA-AF	D	College or university
Portugal	TQG-05AA-AF	D	Superior education
Serbia	TQG-05AA-AF	D	College or higher education
Singapore	TQG-05AA	D	Education - Primary
Slovenia	TQG-05AA-AF	D	University
Spain	TQG-05AA	D	Early childhood education / Primary education
Spain	TQG-05AA-AF	D	University education
Thailand	TQG-05AA-AF	D	Higher education
Tunisia	TQG-05AA-AF	D	University
Turkey	TQG-05AA-AF	D	Higher education

SECTION 2: FOURTH GRADE – TEACHER QUESTIONNAIRE

United States TQG-05AA-AF D College or university

TQG-05BA-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): ATBG05BA, ATBG05BB, ATBG05BC, ATBG05BD

Country	Item ID	Code	Documentation
Austria	TQG-05BA-BD	X	Question not administered or data not available
Belgium (Flemish)	TQG-05BA-BD	X	Question not administered or data not available
Italy	TQG-05BA-BD	D	Stem of the question changed: If your major or main area of study was education, did you attend a training course in any of the following?

TQG-12A-B**Question:**

- A: How many students are in this class?
 B: How many of the students in #G12A are in <fourth grade>?

Variable Name(s): ATBG12A, ATBG12B

Country	Item ID	Code	Documentation
Austria	TQG-12B	D	Gang punched to teachers' responses to question G12A "How many students are in this class?"
Chile	TQG-12B	D	Gang punched to teachers' responses to question G12A "How many students are in this class?"
Hungary	TQG-12B	D	Gang punched to teachers' responses to question G12A "How many students are in this class?"
Italy	TQG-12B	D	Gang punched to teachers' responses to question G12A "How many students are in this class?"
Korea, Rep. of	TQG-12B	D	Gang punched to teachers' responses to question G12A "How many students are in this class?"
Malta	TQG-12B	D	Gang punched to teachers' responses to question G12A "How many students are in this class?"
Netherlands	TQG-12B	D	Gang punched to teachers' responses to question G12A "How many students are in this class?"
Russian Federation	TQG-12B	D	Gang punched to teachers' responses to question G12A "How many students are in this class?"
Saudi Arabia	TQG-12B	D	Gang punched to teachers' responses to question G12A "How many students are in this class?"
Singapore	TQG-12B	D	Gang punched to teachers' responses to question G12A "How many students are in this class?"

TQG-14A-C**Question:**

- Which of the following subjects do you teach to this class?
 A: I teach the class <language of test>/reading
 B: I teach the class mathematics
 C: I teach the class science
 1 = Yes
 2 = No

Variable Name(s): ATBG14A, ATBG14B, ATBG14C

Country	Item ID	Code	Documentation
Kazakhstan	TQG-14C	D	I teach "Knowledge of the World"
New Zealand	TQG-14A-C	D	Stem of the question changed: Which of the following subjects do you teach to at least some of the students in this class?

TQG-16A-F**Question:**

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

A: Students lacking prerequisite knowledge or skills

B: Students suffering from lack of basic nutrition

C: Students suffering from not enough sleep

D: Students with special needs (e.g., physical disabilities, mental or emotional/ psychological impairment)

E: Disruptive students

F: Uninterested students

1 = Not applicable

2 = Not at all

3 = Some

4 = A lot

Variable Name(s): ATBG16A, ATBG16B, ATBG16C, ATBG16D, ATBG16E, ATBG16F

Country	Item ID	Code	Documentation
Austria	TQG-16B	X	Option not administered or data not available
Hungary	TQG-16A-F	D	Nationally defined categories: 1 = Does not occur in this class 2 = Not at all 3 = Some 4 = A lot

TQM-03A-H**Question:**

In teaching mathematics to this class, how often do you usually ask students to do the following?

A: Listen to me explain how to solve problems

B: Memorize rules, procedures, and facts

C: Work problems (individually or with peers) with my guidance

D: Work problems together in the whole class with direct guidance from me

E: Work problems (individually or with peers) while I am occupied by other tasks

F: Explain their answers

G: Relate what they are learning in mathematics to their daily lives

H: Take a written test or quiz

1 = Every or almost every lesson

2 = About half the lessons

3 = Some lessons

4 = Never

Variable Name(s): ATBM03A, ATBM03B, ATBM03C, ATBM03D, ATBM03E, ATBM03F, ATBM03G, ATBM03H

Country	Item ID	Code	Documentation
Austria	TQM-03H	D	Fill in worksheets

TQM-06CA-CC**Question:**

How often do you have the students do the following computer activities during mathematics lessons?

A: Explore mathematics principles and concepts

B: Practice skills and procedures

C: Look up ideas and information

1 = Every or almost every day

2 = Once or twice a week

3 = Once or twice a month

4 = Never or almost never

Variable Name(s): ATBM06CA, ATBM06CB, ATBM06CC

Country	Item ID	Code	Documentation
Korea, Rep. of	TQM-06CA-CC	D	Nationally defined categories: 1 = Every or almost every lesson 2 = Once or twice a week 3 = Once or twice a month 4 = Never or almost never

TQM-07AA-AH**Question:**

The following list includes the main topics addressed by the TIMSS mathematics test. Choose the response that best describes when the students in this class have been taught each topic. If a topic was in the curriculum before the <fourth grade>, please choose "Mostly taught before this year." 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: Concepts of whole numbers, including place value and ordering

B: Adding, subtracting, multiplying, and/or dividing with whole numbers

C: Concepts of fractions (fractions as parts of a whole or of a collection, or as a location on a number line; comparing and ordering fractions)

D: Adding and subtracting with fractions

E: Concepts of decimals, including place value and ordering

F: Adding and subtracting with decimals

G: Number sentences (finding the missing number, modeling simple situations with number sentences)

H: Number patterns (extending number patterns and finding missing terms)

1 = Mostly taught before this year

2 = Mostly taught this year

3 = Not yet taught or just introduced

Variable Name(s): ATBM07AA, ATBM07AB, ATBM07AC, ATBM07AD, ATBM07AE, ATBM07AF, ATBM07AG, ATBM07AH

Country	Item ID	Code	Documentation
Kazakhstan	TQM-07AA-AH	X	Question not administered or data not available
Russian Federation	TQM-07AA-AH	X	Question not administered or data not available

TQM-07BA-BG**Question:**

The following list includes the main topics addressed by the TIMSS mathematics test. Choose the response that best describes when the students in this class have been taught each topic. If a topic was in the curriculum before the <fourth grade>, please choose “Mostly taught before this year.” 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: Lines: measuring, estimating length of; parallel and perpendicular lines

B: Comparing and drawing angles

C: Using informal coordinate systems to locate points in a plane (e.g., in square B4)

D: Elementary properties of common geometric shapes

E: Reflections and rotations

F: Relationships between two-dimensional and three-dimensional shapes

G: Finding and estimating areas, perimeters, and volumes

1 = Mostly taught before this year

2 = Mostly taught this year

3 = Not yet taught or just introduced

1 = Mostly taught before this year

2 = Mostly taught this year

3 = Not yet taught or just introduced

Variable Name(s): ATBM07BA, ATBM07BB, ATBM07BC, ATBM07BD, ATBM07BE, ATBM07BF, ATBM07BG

Country	Item ID	Code	Documentation
Kazakhstan	TQM-07BA-BG	X	Question not administered or data not available
Russian Federation	TQM-07BA-BG	X	Question not administered or data not available

TQM-07CA-CC**Question:**

The following list includes the main topics addressed by the TIMSS mathematics test. Choose the response that best describes when the students in this class have been taught each topic. If a topic was in the curriculum before the <fourth grade>, please choose “Mostly taught before this year.” 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: Drawing conclusions from data displays

C: Displaying data using tables, pictographs, and bar graphs

1 = Mostly taught before this year

2 = Mostly taught this year

3 = Not yet taught or just introduced

Variable Name(s): ATBM07CA, ATBM07CB, ATBM07CC

Country	Item ID	Code	Documentation
Kazakhstan	TQM-07CA-CC	X	Question not administered or data not available
Russian Federation	TQM-07CA-CC	X	Question not administered or data not available

TQM-10A-C**Question:**

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

- A: Evaluation of students' ongoing work
- B: Classroom tests (for example, teacher-made or textbook tests)
- C: National or regional achievement tests
- 1 = Major emphasis
- 2 = Some emphasis
- 3 = Little or no emphasis

Variable Name(s): ATBM10A, ATBM10B, ATBM10C

Country	Item ID	Code	Documentation
Poland	TQM-10C	D	External achievement tests

TQM-12AA-AH**Question:**

How well prepared do you feel you are to teach the following mathematics topics? If a topic is not in the <fourth-grade> curriculum or you are not responsible for teaching this topic, please choose "Not applicable."

- A: Concepts of whole numbers, including place value and ordering
- B: Adding, subtracting, multiplying and/or dividing with whole numbers
- C: Concepts of fractions (fractions as parts of a whole or of a collection, or as a location on a number line; comparing and ordering fractions)
- D: Adding and subtracting with fractions
- E: Concepts of decimals, including place value and ordering
- F: Adding and subtracting with decimals
- G: Number sentences (finding the missing number, modeling simple situations with number sentences)
- H: Number patterns (extending number patterns and finding missing terms)
- 1 = Not applicable
- 2 = Very well prepared
- 3 = Somewhat prepared
- 4 = Not well prepared

Variable Name(s): ATBM12AA, ATBM12AB, ATBM12AC, ATBM12AD, ATBM12AE, ATBM12AF, ATBM12AG, ATBM12AH

Country	Item ID	Code	Documentation
Austria	TQM-12AA-AH	X	Question not administered or data not available
Hungary	TQM-12AA-AH	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
Kazakhstan	TQM-12AA-AH	X	Question not administered or data not available
Russian Federation	TQM-12AA-AH	X	Question not administered or data not available

TQM-12BA-BG**Question:**

How well prepared do you feel you are to teach the following mathematics topics? If a topic is not in the <fourth-grade> curriculum or you are not responsible for teaching this topic, please choose “Not applicable.”

A: Lines: measuring, estimating length of; parallel and perpendicular lines

B: Comparing and drawing angles

C: Using informal coordinate systems to locate points in a plane (e.g., in square B4)

D: Elementary properties of common geometric shapes

E: Reflections and rotations

F: Relationships between two-dimensional and three-dimensional shapes

G: Finding and estimating areas, perimeters, and volumes

1 = Not applicable

2 = Very well prepared

3 = Somewhat prepared

4 = Not well prepared

Variable Name(s): ATBM12BA, ATBM12BB, ATBM12BC, ATBM12BD, ATBM12BE, ATBM12BF, ATBM12BG

Country	Item ID	Code	Documentation
Hungary	TQM-12BA-BG	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
Kazakhstan	TQM-12BA-BG	X	Question not administered or data not available
Russian Federation	TQM-12BA-BG	X	Question not administered or data not available

TQM-12CA-CC**Question:**

How well prepared do you feel you are to teach the following mathematics topics? If a topic is not in the <fourth-grade> curriculum or you are not responsible for teaching this topic, please choose “Not applicable.”

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

B: Drawing conclusions from data displays

C: Displaying data using tables, pictographs, and bar graphs

1 = Not applicable

2 = Very well prepared

3 = Somewhat prepared

4 = Not well prepared

Variable Name(s): ATBM12CA, ATBM12CB, ATBM12CC

Country	Item ID	Code	Documentation
Hungary	TQM-12CA-CC	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
Kazakhstan	TQM-12CA-CC	X	Question not administered or data not available
Russian Federation	TQM-12CA-CC	X	Question not administered or data not available

TQS-03A-J**Question:**

In teaching science to the students in this class, how often do you usually ask them to do the following?

- A: Observe natural phenomena such as the weather or a plant growing and describe what they see
 - B: Watch me demonstrate an experiment or investigation
 - C: Design or plan experiments or investigations
 - D: Conduct experiments or investigations
 - E: Read their textbooks or other resource materials
 - F: Have students memorize facts and principles
 - G: Give explanations about something they are studying
 - H: Relate what they are learning in science to their daily lives
 - I: Do field work outside the class
 - J: Take a written test or quiz
- 1 = Every or almost every lesson
 2 = About half the lessons
 3 = Some lessons
 4 = Never

Variable Name(s): ATBS03A, ATBS03B, ATBS03C, ATBS03D, ATBS03E, ATBS03F, ATBS03G, ATBS03H, ATBS03I, ATBS03J

Country	Item ID	Code	Documentation
Austria	TQS-03J	D	Fill in worksheets

TQS-05CA-CD**Question:**

How often do you have the students do the following computer activities during science lessons?

- A: Practice skills and procedures
 - B: Look up ideas and information
 - C: Do scientific procedures or experiments
 - D: Study natural phenomena through simulations
- 1 = Every or almost every day
 2 = Once or twice a week
 3 = Once or twice a month
 4 = Never or almost never

Variable Name(s): ATBS05CA, ATBS05CB, ATBS05CC, ATBS05CD

Country	Item ID	Code	Documentation
Korea, Rep. of	TQS-05CA-CD	D	Nationally defined categories: 1 = Every or almost every lesson 2 = Once or twice a week 3 = Once or twice a month 4 = Never or almost never

TQS-06AA-AF**Question:**

The following list includes the main topics addressed by the TIMSS science test. Choose the response that best describes when the students in this class have been taught each topic. If a topic was in the curriculum before the <fourth grade>, please choose “Mostly taught before this year.” 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: Major body structures and their functions in humans and other organisms (plants and animals)

B: Life cycles and reproduction in plants and animals

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

D: Relationships in a given 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 = Mostly taught before this year

2 = Mostly taught this year

3 = Not yet taught or just introduced

Variable Name(s): ATBS06AA, ATBS06AB, ATBS06AC, ATBS06AD, ATBS06AE, ATBS06AF

Country	Item ID	Code	Documentation
Kazakhstan	TQS-06AA-AF	X	Question not administered or data not available
Russian Federation	TQS-06AA-AF	X	Question not administered or data not available

TQS-06BA-BH**Question:**

The following list includes the main topics addressed by the TIMSS science test. Choose the response that best describes when the students in this class have been taught each topic. If a topic was in the curriculum before the <fourth grade>, please choose “Mostly taught before this year.” 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: States of matter (solids, liquids, gases) and differences in their physical properties (shape, volume), including changes in state of matter by heating and cooling

B: Classification of objects/materials based on physical properties (e.g., weight/mass, volume, magnetic attraction)

C: Forming and separating mixtures

D: Familiar changes in materials (e.g., decaying, burning, rusting, cooking)

E: Common energy sources/forms and their practical uses (e.g., the Sun, electricity, water, wind)

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

G: Electrical circuits and properties of magnets

H: 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): ATBS06BA, ATBS06BB, ATBS06BC, ATBS06BD, ATBS06BE, ATBS06BF, ATBS06BG, ATBS06BH

Country	Item ID	Code	Documentation
Kazakhstan	TQS-06BA-BH	X	Question not administered or data not available
Russian Federation	TQS-06BA-BH	X	Question not administered or data not available

TQS-06CA-CF**Question:**

The following list includes the main topics addressed by the TIMSS science test. Choose the response that best describes when the students in this class have been taught each topic. If a topic was in the curriculum before the <fourth grade>, please choose "Mostly taught before this year." 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: Water on Earth (location, types, and movement) and air (composition, proof of its existence, uses)

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

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

D: Fossils of animals and plants (age, location, formation)

E: Earth's solar system (planets, Sun, moon)

F: Day, night, and shadows due to Earth's rotation and its relationship to the Sun

1 = Mostly taught before this year

2 = Mostly taught this year

3 = Not yet taught or just introduced

Variable Name(s): ATBS06CA, ATBS06CB, ATBS06CC, ATBS06CD, ATBS06CE, ATBS06CF

Country	Item ID	Code	Documentation
Kazakhstan	TQS-06CA-CF	X	Question not administered or data not available
Russian Federation	TQS-06CA-CF	X	Question not administered or data not available

TQS-07A-D**Question:**

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

Variable Name(s): ATBS07A, ATBS07B, ATBS07C, ATBS07D

Country	Item ID	Code	Documentation
Kazakhstan	TQS-07A	D	Biology
Kazakhstan	TQS-07C	D	Geography
Serbia	TQS-07B	D	Physical and chemical phenomena

TQS-09A-C**Question:**

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

- A: Evaluation of students' ongoing work
 B: Classroom tests (for example, teacher-made or textbook tests)
 C: National or regional achievement tests
 1 = Major emphasis
 2 = Some emphasis
 3 = Little or no emphasis

Variable Name(s): ATBS09A, ATBS09B, ATBS09C

Country	Item ID	Code	Documentation
Poland	TQS-09C	D	External achievement tests

TQS-11AA-AF**Question:**

How well prepared do you feel you are to teach the following science topics? If a topic is not in the <fourth-grade> curriculum or you are not responsible for teaching this topic, please choose "Not applicable."

- A: Major body structures and their functions in humans and other organisms (plants and animals)
 B: Life cycles and reproduction in plants and animals
 C: Physical features, behavior, and survival of organisms living in different environments
 D: Relationships in a given 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): ATBS11AA, ATBS11AB, ATBS11AC, ATBS11AD, ATBS11AE, ATBS11AF

Country	Item ID	Code	Documentation
Austria	TQS-11AA-AF	X	Question not administered or data not available
Hungary	TQS-11AA-AF	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
Kazakhstan	TQS-11AA-AF	X	Question not administered or data not available
Russian Federation	TQS-11AA-AF	X	Question not administered or data not available

TQS-11BA-BH**Question:**

How well prepared do you feel you are to teach the following science topics? If a topic is not in the <fourth-grade> curriculum or you are not responsible for teaching this topic, please choose "Not applicable."

A: States of matter (solids, liquids, gases) and differences in their physical properties (shape, volume), including changes in state of matter by heating and cooling

B: Classification of objects/materials based on physical properties (e.g., weight/mass, volume, magnetic attraction)

C: Forming and separating mixtures

D: Familiar changes in materials (e.g., decaying, burning, rusting, cooking)

E: Common energy sources/forms and their practical uses (e.g., the Sun, electricity, water, wind)

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

G: Electrical circuits and properties of magnets

H: 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): ATBS11BA, ATBS11BB, ATBS11BC, ATBS11BD, ATBS11BE, ATBS11BF, ATBS11BG, ATBS11BH

Country	Item ID	Code	Documentation
Hungary	TQS-11BA-BH	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
Kazakhstan	TQS-11BA-BH	X	Question not administered or data not available
Russian Federation	TQS-11BA-BH	X	Question not administered or data not available

TQS-11CA-CF**Question:**

How well prepared do you feel you are to teach the following science topics? If a topic is not in the <fourth-grade> curriculum or you are not responsible for teaching this topic, please choose “Not applicable.”

A: Water on Earth (location, types, and movement) and air (composition, proof of its existence, uses)

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

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

D: Fossils of animals and plants (age, location, formation)

E: Earth’s solar system (planets, Sun, moon)

F: Day, night, and shadows due to Earth’s rotation and its relationship to the Sun

1 = Not applicable

2 = Very well prepared

3 = Somewhat prepared

4 = Not well prepared

Variable Name(s): ATBS11CA, ATBS11CB, ATBS11CC, ATBS11CD, ATBS11CE, ATBS11CF

Country	Item ID	Code	Documentation
Belgium (Flemish)	TQS-11CF	X	Option not administered or data not available
Kazakhstan	TQS-11CA-CF	X	Question not administered or data not available
Russian Federation	TQS-11CA-CF	X	Question not administered or data not available

ITCOURSE**Question:**

TYPE OF COURSE

Variable Name(s): ITCOURSE

Country	Item ID	Code	Documentation
Abu Dhabi, UAE	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Alberta, Canada	ITCOURSE	D	1 = Mathematics 6 = Science 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
Azerbaijan	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Bahrain	ITCOURSE	D	1 = Mathematics 6 = Science
Belgium (Flemish)	ITCOURSE	D	7 = Mathematics and Science
Botswana	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Chile	ITCOURSE	D	7 = Mathematics and Science
Chinese Taipei	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Croatia	ITCOURSE	D	7 = Mathematics and Science
Czech Republic	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Denmark	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Dubai, UAE	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science

SECTION 2: FOURTH GRADE – TEACHER QUESTIONNAIRE

England	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Finland	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Florida, US	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Georgia	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Germany	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Honduras	ITCOURSE	D	7 = Mathematics and Science
Hong Kong SAR	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Hungary	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Iran, Islamic Rep. of	ITCOURSE	D	7 = Mathematics and Science
Ireland	ITCOURSE	D	7 = Mathematics and Science
Italy	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Japan	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Kazakhstan	ITCOURSE	D	7 = Mathematics and Science
Korea, Rep. of	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Kuwait	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Lithuania	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Malta	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

SECTION 2: FOURTH GRADE - TEACHER QUESTIONNAIRE

New Zealand	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
North Carolina, US	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Northern Ireland	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Norway	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Oman	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Ontario, Canada	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Poland	ITCOURSE	D	7 = Mathematics and Science
Portugal	ITCOURSE	D	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
Romania	ITCOURSE	D	7 = Mathematics and Science
Russian Federation	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Saudi Arabia	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Serbia	ITCOURSE	D	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	1 = Mathematics 6 = Science 7 = Mathematics and Science
Spain	ITCOURSE	D	7 = Mathematics and Science
Sweden	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science

SECTION 2: FOURTH GRADE – TEACHER QUESTIONNAIRE

Thailand	ITCOURSE	D	7 = Mathematics and Science
Tunisia	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science
Turkey	ITCOURSE	D	7 = Mathematics and Science
United Arab Emirates	ITCOURSE	D	1 = Mathematics 6 = Science 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
Yemen (6)	ITCOURSE	D	1 = Mathematics 6 = Science 7 = Mathematics and Science

Section 3

Fourth Grade – School Questionnaire

SCQ-01**Question:**

What is the total enrollment of students in your school as of <first day of month PIRLS/TIMSS testing begins, 2010/2011>?

Variable Name(s): ACBG01

Country	Item ID	Code	Documentation
Abu Dhabi, UAE	SCQ-01	D	March 1, 2011
Alberta, Canada	SCQ-01	D	March 1, 2011
Armenia	SCQ-01	D	At the time the TIMSS 2011 testing takes place in 2010/2011
Australia	SCQ-01	D	November 1, 2010
Austria	SCQ-01	D	March 1, 2011
Azerbaijan	SCQ-01	D	April 1, 2011
Bahrain	SCQ-01	D	October 1, 2011
Belgium (Flemish)	SCQ-01	D	On the day the TIMSS-test is administered
Botswana	SCQ-01	D	November 1, 2010
Chile	SCQ-01	D	November 1, 2010
Chinese Taipei	SCQ-01	D	May 16, 2011
Croatia	SCQ-01	D	May 1, 2011
Czech Republic	SCQ-01	D	April 1, 2011
Denmark	SCQ-01	D	March 1, 2011
Dubai, UAE	SCQ-01	D	March 1, 2011
England	SCQ-01	D	May 1, 2011
Finland	SCQ-01	D	March 1, 2011
Florida, US	SCQ-01	D	April 1, 2011
Georgia	SCQ-01	D	May 1, 2011
Germany	SCQ-01	D	May 1, 2011
Honduras	SCQ-01	D	October 28, 2010
Hong Kong SAR	SCQ-01	D	April 1, 2011
Hungary	SCQ-01	D	March 1, 2011

SECTION 3: FOURTH GRADE – SCHOOL QUESTIONNAIRE

Iran, Islamic Rep. of	SCQ-01	D	The Persian calendar used. The date corresponds to May 1, 2011.
Ireland	SCQ-01	D	March 1, 2011
Italy	SCQ-01	D	March 1, 2011
Japan	SCQ-01	D	March 1, 2011
Kazakhstan	SCQ-01	D	April 1, 2011
Korea, Rep. of	SCQ-01	D	December 1, 2010
Kuwait	SCQ-01	D	May 1, 2011
Lithuania	SCQ-01	D	March 1, 2011
Malta	SCQ-01	D	April 1, 2011
Morocco	SCQ-01	D	May 2011
Netherlands	SCQ-01	D	On the day the TIMSS-test is administered
New Zealand	SCQ-01	D	October 1, 2011
North Carolina, US	SCQ-01	D	April 1, 2011
Northern Ireland	SCQ-01	D	May 1, 2011
Norway	SCQ-01	D	March 1, 2011
Oman	SCQ-01	D	April 1, 2011
Ontario, Canada	SCQ-01	D	March 1, 2011
Poland	SCQ-01	D	April 1, 2011
Portugal	SCQ-01	D	April 1, 2011
Qatar	SCQ-01	D	April 1, 2011
Quebec, Canada	SCQ-01	D	March 1, 2011
Romania	SCQ-01	D	May 1, 2011
Russian Federation	SCQ-01	D	April 1, 2011
Saudi Arabia	SCQ-01	D	May 21, 2011
Serbia	SCQ-01	D	May 1, 2011
Singapore	SCQ-01	D	October 1, 2010
Slovak Republic	SCQ-01	D	May 1, 2011
Slovenia	SCQ-01	D	This school year
Spain	SCQ-01	D	March 1, 2011
Sweden	SCQ-01	D	March 1, 2011

SECTION 3: FOURTH GRADE – SCHOOL QUESTIONNAIRE

Thailand	SCQ-01	D	February 1, 2011
Tunisia	SCQ-01	D	May 1, 2011
Turkey	SCQ-01	D	April 1, 2011
United Arab Emirates	SCQ-01	D	March 1, 2011
United States	SCQ-01	D	April 1, 2011
Yemen	SCQ-01	D	April 1, 2011
Yemen (6)	SCQ-01	D	April 1, 2011

SCQ-02**Question:**

What is the total enrollment of <fourth-grade> students in your school as of <first day of month PIRLS/TIMSS testing begins, 2010/2011>?

Variable Name(s): ACBG02

Country	Item ID	Code	Documentation
Abu Dhabi, UAE	SCQ-02	D	March 1, 2011
Alberta, Canada	SCQ-02	D	March 1, 2011
Armenia	SCQ-02	D	At the time the TIMSS 2011 testing takes place in 2010/2011
Australia	SCQ-02	D	November 1, 2010
Austria	SCQ-02	D	March 1, 2011
Azerbaijan	SCQ-02	D	April 1, 2011
Bahrain	SCQ-02	D	October 1, 2011
Belgium (Flemish)	SCQ-02	D	On the day the TIMSS-test is administered
Botswana	SCQ-02	D	November 1, 2010
Chile	SCQ-02	D	November 1, 2010
Chinese Taipei	SCQ-02	D	May 16, 2011
Croatia	SCQ-02	D	May 1, 2011
Czech Republic	SCQ-02	D	April 1, 2011
Denmark	SCQ-02	D	March 1, 2011
Dubai, UAE	SCQ-02	D	March 1, 2011
England	SCQ-02	D	May 1, 2011
Finland	SCQ-02	D	March 1, 2011
Florida, US	SCQ-02	D	April 1, 2011
Georgia	SCQ-02	D	May 1, 2011
Germany	SCQ-02	D	May 1, 2011
Honduras	SCQ-02	D	October 28, 2010
Hong Kong SAR	SCQ-02	D	April 1, 2011
Hungary	SCQ-02	D	March 1, 2011
Iran, Islamic Rep. of	SCQ-02	D	The Persian calendar used. The date corresponds to May 1, 2011.

SECTION 3: FOURTH GRADE – SCHOOL QUESTIONNAIRE

Ireland	SCQ-02	D	March 1, 2011
Italy	SCQ-02	D	March 1, 2011
Japan	SCQ-02	D	March 1, 2011
Kazakhstan	SCQ-02	D	April 1, 2011
Korea, Rep. of	SCQ-02	D	December 1, 2010
Kuwait	SCQ-02	D	May 1, 2011
Lithuania	SCQ-02	D	March 1, 2011
Malta	SCQ-02	D	April 1, 2011
Morocco	SCQ-02	D	May 2011
Netherlands	SCQ-02	D	On the day the TIMSS-test is administered
New Zealand	SCQ-02	D	October 1, 2011
North Carolina, US	SCQ-02	D	April 1, 2011
Northern Ireland	SCQ-02	D	May 1, 2011
Norway	SCQ-02	D	March 1, 2011
Oman	SCQ-02	D	April 1, 2011
Ontario, Canada	SCQ-02	D	March 1, 2011
Poland	SCQ-02	D	April 1, 2011
Portugal	SCQ-02	D	April 1, 2011
Qatar	SCQ-02	D	April 1, 2011
Quebec, Canada	SCQ-02	D	March 1, 2011
Romania	SCQ-02	D	May 1, 2011
Russian Federation	SCQ-02	D	April 1, 2011
Saudi Arabia	SCQ-02	D	May 21, 2011
Serbia	SCQ-02	D	May 1, 2011
Singapore	SCQ-02	D	October 1, 2010
Slovak Republic	SCQ-02	D	May 1, 2011
Slovenia	SCQ-02	D	Stem of the question changed: What is the total enrollment of fourth-grade students in your school?
Spain	SCQ-02	D	March 1, 2011
Sweden	SCQ-02	D	March 1, 2011

SECTION 3: FOURTH GRADE – SCHOOL QUESTIONNAIRE

Thailand	SCQ-02	D	February 1, 2011
Tunisia	SCQ-02	D	May 1, 2011
Turkey	SCQ-02	D	April 1, 2011
United Arab Emirates	SCQ-02	D	March 1, 2011
United States	SCQ-02	D	April 1, 2011
Yemen	SCQ-02	D	April 1, 2011
Yemen (6)	SCQ-02	D	April 1, 2011

SCQ-05A-C**Question:**

A: 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

B: Which best describes the immediate area in which your school is located?

- 1 = Urban–Densely populated
- 2 = Suburban–On fringe or outskirts of urban area
- 3 = Medium size city or large town
- 4 = Small town or village
- 5 = Remote rural

C: Which best characterizes the average income level of the school's immediate area?

- 1 = High
- 2 = Medium
- 3 = Low

Variable Name(s): ACBG05A, ACBG05B, ACBG05C

Country	Item ID	Code	Documentation
Australia	SCQ-05A	D	National options recoded for international comparability: 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
Botswana	SCQ-05A	D	National options recoded for international comparability: 1 = Option not administered or data not available 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
Chinese Taipei	SCQ-05B	D	National options recoded for international comparability: 1 = Urban–Densely populated 2 = Suburban–On fringe or outskirts of urban area 3 = Medium size city or large town 4 = Small town or village 5 = Remote rural / Off-shore islands
Malta	SCQ-05A	D	National options recoded for international comparability: 1 = Option not administered or data not available 2 = Option not administered or data not available 3 = More than 50,000 people 4 = 15,001 to 50,000 people 5 = 3,001 to 15,000 people 6 = 3,000 people or fewer
Singapore	SCQ-05A	D	Gang punched to "More than 500,000 people"
Singapore	SCQ-05B	D	Gang punched to "Urban–Densely populated"
Slovak Republic	SCQ-05B	D	National options recoded for international comparability: 1 = Urban–Densely populated 2 = Suburban–On fringe or outskirts of urban area 3 = Medium size town 4 = Small town / Village 5 = Option not administered or data not available

SCQ-06A**Question:**

How many days per year is your school open for instruction?

Variable Name(s): ACBG06A

Country	Item ID	Code	Documentation
Austria	SCQ-06A	D	Gang punched to "184"
Singapore	SCQ-06A	D	Gang punched to "189"
Slovenia	SCQ-06A	D	Gang punched to "190 days"

SCQ-06BA-BB**Question:**

What is the total instructional time, excluding breaks, in a typical day?

Variable Name(s): ACBG06BA, ACBG06BB

Country	Item ID	Code	Documentation
Slovenia	SCQ-06BA-BB	D	Gang punched to "3 hours and 36 minutes"

SCQ-06C**Question:**

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): ACBG06C

Country	Item ID	Code	Documentation
Austria	SCQ-06C	D	National options recoded for international comparability: 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
Belgium (Flemish)	SCQ-06C	D	National options recoded for international comparability: 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
Czech Republic	SCQ-06C	D	Gang punched to "5 days"
Netherlands	SCQ-06C	D	National options recoded for international comparability: 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
Singapore	SCQ-06C	D	Gang punched to "5 days"
Slovenia	SCQ-06C	D	Gang punched to "5 days"

SCQ-09A-B**Question:**

Does your school have a school library?

1 = Yes

2 = No

A: Approximately how many books with different titles does your school library have (exclude magazines and periodicals)?

1 = 250 or fewer

2 = 251–500

3 = 501–2,000

4 = 2,001–5,000

5 = 5,001–10,000

6 = More than 10,000

B: Approximately how many titles of magazines and other periodicals does your school library have?

1 = 0

2 = 1–5

3 = 6–10

4 = 11–30

5 = 31 or more

Variable Name(s): ACBG09, ACBG09A, ACBG09B

Country	Item ID	Code	Documentation
Netherlands	SCQ-09A-B	X	Question not administered or data not available

SCQ-10BA-BD**Question:**

How much is your school's capacity to provide instruction affected by a shortage or inadequacy of the following?

A: Teachers with a specialization in reading

B: Computer software for reading instruction

C: Library books

D: Audio-visual resources for reading instruction

1 = Not at all

2 = A little

3 = Some

4 = A lot

Variable Name(s): ACBG10BA, ACBG10BB, ACBG10BC, ACBG10BD

Country	Item ID	Code	Documentation
Turkey	SCQ-10BA	D	Teachers with a specialization in Turkish

SCQ-13BA-BB**Question:**

To what degree is each of the following a problem among teachers in your school?

A: Arriving late or leaving early

B: Absenteeism

1 = Not a problem

2 = Minor problem

3 = Moderate problem

4 = Serious problem

Variable Name(s): ACBG13BA, ACBG13BB

Country	Item ID	Code	Documentation
New Zealand	SCQ-13BA-BB	X	Question not administered or data not available

SCQ-14A-D**Question:**

In your school, are any of the following used to evaluate the practice of <fourth-grade> 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): ACBG14A, ACBG14B, ACBG14C, ACBG14D

Country	Item ID	Code	Documentation
Austria	SCQ-14A-D	D	National categories recoded for international comparability: 1 = Yes, often / yes, sometimes 2 = No, never

SCQ-16A-H**Question:**

About how many of the students in your school can do the following when they begin primary/ elementary school?

- A: Recognize most of the letters of the alphabet
 - B: Read some words
 - C: Read sentences
 - D: Write letters of the alphabet
 - E: Write some words
 - F: Count up to 100 or higher
 - G: Recognize all 10 written numbers from 1–10
 - H: Write all 10 numbers from 1–10
- 1 = Less than 25%
 2 = 25–50%
 3 = 51–75%
 4 = More than 75%

Variable Name(s): ACBG16A, ACBG16B, ACBG16C, ACBG16D, ACBG16E, ACBG16F, ACBG16G, ACBG16H

Country	Item ID	Code	Documentation
Chinese Taipei	SCQ-16D	D	Write letters of the phonetic symbols
Ireland	SCQ-16A-H	X	Question not administered or data not available

SCQ-17A-N**Question:**

At which grade do the following reading skills and strategies first receive a major emphasis in instruction in your school?

- A: Knowing letters of the alphabet
 - B: Knowing letter-sound relationships
 - C: Reading words
 - D: Reading isolated sentences
 - E: Reading connected text
 - F: Locating information within the text
 - G: Identifying the main idea of a text
 - H: Explaining or supporting understanding of a text
 - I: Comparing a text with personal experience
 - J: Comparing different texts
 - K: Making predictions about what will happen next in a text
 - L: Making generalizations and drawing inferences based on a text
 - M: Describing the style or structure of a text
 - N: Determining the author's perspective or intention
- 1 = <First grade> or earlier
 2 = <Second grade>
 3 = <Third grade>
 4 = <Fourth grade>
 5 = Not in these grades

Variable Name(s): ACBG17A, ACBG17B, ACBG17C, ACBG17D, ACBG17E, ACBG17F, ACBG17G, ACBG17H, ACBG17I, ACBG17J, ACBG17K, ACBG17L, ACBG17M, ACBG17N

Country	Item ID	Code	Documentation
Abu Dhabi, UAE	SCQ-17A-N	D	Nationally defined categories: 1 = Grade 1 or earlier 2 = Grade 2 3 = Grade 3 4 = Grade 4 5 = Grade 5 or later
Alberta, Canada	SCQ-17A-N	D	Nationally defined categories: 1 = Grade 1 or earlier 2 = Grade 2 3 = Grade 3 4 = Grade 4 5 = Not in these grades
Armenia	SCQ-17A-N	D	Nationally defined categories: 1 = First grade or earlier 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades
Australia	SCQ-17A-N	D	Nationally defined categories: 1 = Year 1 or earlier 2 = Year 2 3 = Year 3 4 = Year 4 5 = Not in these Years
Austria	SCQ-17A-N	D	Nationally defined categories: 1 = Grade 1 or earlier 2 = Grade 2 3 = Grade 3 4 = Grade 4 5 = Not in these grades

SECTION 3: FOURTH GRADE – SCHOOL QUESTIONNAIRE

Azerbaijan	SCQ-17A-N	D	Nationally defined categories: 1 = First grade or earlier 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades
Bahrain	SCQ-17A	D	Nationally defined categories: 1 = First grade or earlier 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades
Belgium (Flemish)	SCQ-17A-N	X	Question not administered or data not available
Botswana	SCQ-17A-N	D	Nationally defined categories: 1 = Standard 3 or earlier 2 = Standard 4 3 = Standard 5 4 = Standard 6 5 = Not in these grades
Chile	SCQ-17A-N	D	Nationally defined categories: 1 = First grade or earlier 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades
Chinese Taipei	SCQ-17A	D	Knowing letters of the phonetic symbols
Chinese Taipei	SCQ-17A-N	D	Nationally defined options: 1 = First grade or earlier 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades
Chinese Taipei	SCQ-17B	D	Knowing letter-sound relationships of the phonetic symbols
Croatia	SCQ-17A-N	D	Nationally defined categories: 1 = First grade or earlier 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades
Czech Republic	SCQ-17A-N	D	Nationally defined categories: 1 = Grade 1 2 = Grade 2 3 = Grade 3 4 = Grade 4 5 = Not in these grades
Denmark	SCQ-17A-N	D	Nationally defined categories: 1 = 1st grade or earlier 2 = 2nd grade 3 = 3rd grade 4 = 4th grade 5 = Not in these grades

SECTION 3: FOURTH GRADE – SCHOOL QUESTIONNAIRE

Dubai, UAE	SCQ-17A-N	D	Nationally defined categories: 1 = Grade 1 or earlier 2 = Grade 2 3 = Grade 3 4 = Grade 4 5 = Grade 5 or later
England	SCQ-17A-N	D	Nationally defined categories: 1 = Year 2 2 = Year 3 3 = Year 4 4 = Year 5 5 = Not in these years
Finland	SCQ-17A-N	D	Nationally defined categories: 1 = First grade or earlier 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades
Florida, US	SCQ-17A-N	D	Nationally defined categories: 1 = First grade or earlier 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades
Georgia	SCQ-17A-N	D	Nationally defined categories: 1 = 1st grade 2 = 2nd grade 3 = 3rd grade 4 = 4th grade 5 = Not in these grades
Germany	SCQ-17A-N	D	Nationally defined categories: 1 = First form or earlier 2 = Second form 3 = Third form 4 = Fourth form 5 = Not in these forms
Honduras	SCQ-17A-N	D	Nationally defined categories: 1 = First grade or earlier 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades
Hong Kong SAR	SCQ-17A-N	D	Nationally defined categories: 1 = Primary 1 or earlier 2 = Primary 2 3 = Primary 3 4 = Primary 4 5 = Not in these grades
Hungary	SCQ-17A-N	D	Nationally defined categories: 1 = First grade or earlier 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades

SECTION 3: FOURTH GRADE – SCHOOL QUESTIONNAIRE

Iran, Islamic Rep. of	SCQ-17A-N	D	Nationally defined categories: 1 = First grade or earlier 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades
Ireland	SCQ-17A-N	D	Nationally defined categories: 1 = First class or earlier 2 = Second class 3 = Third class 4 = Fourth class 5 = Not in these classes
Italy	SCQ-17A-N	D	Nationally defined categories: 1 = First grade (or pre-primary school) 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades
Japan	SCQ-17A-N	D	Nationally defined categories: 1 = First grade or earlier 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades
Kazakhstan	SCQ-17A-N	D	Nationally defined categories: 1 = 1st grade or earlier 2 = 2nd grade 3 = 3rd grade 4 = 4th grade 5 = In other grades
Korea, Rep. of	SCQ-17A-N	D	Nationally defined categories: 1 = Grade 1 or earlier 2 = Grade 2 3 = Grade 3 4 = Grade 4 5 = Not in these grades
Kuwait	SCQ-17A-N	D	Nationally defined categories: 1 = First grade or earlier 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades
Lithuania	SCQ-17A-N	D	Nationally defined categories: 1 = First grade or earlier 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades
Malta	SCQ-17A-N	D	Stem of the question changed: In which Year do the following reading skills and strategies first receive a major emphasis in English instruction in your school? Nationally defined categories: 1 = Year 2 or earlier 2 = Year 3 3 = Year 4 4 = Year 5 5 = Not in these grades

SECTION 3: FOURTH GRADE – SCHOOL QUESTIONNAIRE

Morocco	SCQ-17A-N	D	Nationally defined options: 1 = First grade of primary school 2 = Second grade of primary school 3 = Third grade of primary school 4 = Fourth grade of primary school 5 = Not in these grades
Netherlands	SCQ-17A-N	X	Question not administered or data not available
New Zealand	SCQ-17A-N	X	Question not administered or data not available
North Carolina, US	SCQ-17A-N	D	Nationally defined categories: 1 = First grade or earlier 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades
Northern Ireland	SCQ-17A-N	D	Nationally defined categories: 1 = Year 3 or earlier 2 = Year 4 3 = Year 5 4 = Year 6 5 = Not in these year groups
Norway	SCQ-17A-N	D	Nationally defined categories: 1 = First grade or earlier 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades
Oman	SCQ-17A-N	D	Nationally defined categories: 1 = First grade or earlier 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades
Ontario, Canada	SCQ-17A-N	D	Nationally defined categories: 1 = Grade 1 or earlier 2 = Grade 2 3 = Grade 3 4 = Grade 4 5 = Not in these grades
Poland	SCQ-17A-N	D	Nationally defined categories: 1 = Zero grade 2 = First grade 3 = Second grade 4 = Third grade
Portugal	SCQ-17A-N	D	Nationally defined categories: 1 = Zero grade 2 = First grade 3 = Second grade 4 = Third grade 5 = Not in these grades
Qatar	SCQ-17A-N	D	Nationally defined categories: 1 = First grade or earlier 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades

SECTION 3: FOURTH GRADE – SCHOOL QUESTIONNAIRE

Quebec, Canada	SCQ-17A-N	D	Nationally defined categories: 1 = Grade 1 or earlier 2 = Grade 2 3 = Grade 3 4 = Grade 4 5 = Not in these grades
Romania	SCQ-17A-N	D	Nationally defined categories: 1 = Grade 1 or earlier 2 = Grade 2 3 = Grade 3 4 = Grade 4 5 = Not in these grades
Russian Federation	SCQ-17A-N	D	Nationally defined categories: 1 = 1st grade or earlier 2 = 2nd grade 3 = 3rd grade 4 = 4th grade 5 = In other grades
Saudi Arabia	SCQ-17A-N	D	Nationally defined categories: 1 = First grade or earlier 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades
Serbia	SCQ-17A-N	D	Nationally defined categories: 1 = First grade or earlier 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades
Singapore	SCQ-17A-N	D	Nationally defined categories: 1 = Primary 1 or earlier 2 = Primary 2 3 = Primary 3 4 = Primary 4 5 = Not in these levels
Slovak Republic	SCQ-17A-N	D	Nationally defined categories: 1 = 1st grade or earlier 2 = 2nd grade 3 = 3rd grade 4 = 4th grade 5 = Not in these grades
Slovenia	SCQ-17A-N	D	Nationally defined categories: 1 = First grade or earlier 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades
Spain	SCQ-17A-N	D	Nationally defined categories: 1 = 1st course or earlier 2 = 2nd course 3 = 3rd course 4 = 4th course 5 = None of these courses

SECTION 3: FOURTH GRADE – SCHOOL QUESTIONNAIRE

Sweden	SCQ-17A-N	D	Nationally defined categories: 1 = Grade 1 or earlier 2 = Grade 2 3 = Grade 3 4 = Grade 4 5 = Not in these grades
Thailand	SCQ-17A-N	D	Nationally defined categories: 1 = 1st grade or earlier 2 = 2nd grade 3 = 3rd grade 4 = 4th grade 5 = Not in these grades
Tunisia	SCQ-17A-N	D	Nationally defined categories: 1 = 1st grade or earlier 2 = 2nd grade 3 = 3rd grade 4 = 4th grade 5 = Not in these grades
Turkey	SCQ-17A-N	D	Nationally defined categories: 1 = First grade or earlier 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades
United Arab Emirates	SCQ-17A-N	D	Nationally defined categories: 1 = Grade 1 or earlier 2 = Grade 2 3 = Grade 3 4 = Grade 4 5 = Grade 5 or later
United States	SCQ-17A-N	D	Nationally defined categories: 1 = First grade or earlier 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades
Yemen	SCQ-17A-N	D	Nationally defined categories: 1 = First grade or earlier 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades
Yemen (6)	SCQ-17A-N	D	Nationally defined categories: 1 = First grade or earlier 2 = Second grade 3 = Third grade 4 = Fourth grade 5 = Not in these grades

SCQ-18A-C**Question:**

Compared with other areas of the curriculum (e.g., mathematics and science), how much emphasis does your school place on teaching the following language and literacy skills to students in <grades 1 to 4>?

A: Reading

B: Writing (not handwriting)

C: Speaking/listening (oral language)

1 = More emphasis

2 = Same emphasis

3 = Less emphasis

Variable Name(s): ACBG18A, ACBG18B, ACBG18C

Country	Item ID	Code	Documentation
Abu Dhabi, UAE	SCQ-18A-C	D	Grades 1 to 4
Alberta, Canada	SCQ-18A-C	D	Grades 1 to 4
Armenia	SCQ-18A-C	D	First grade to fourth grade
Australia	SCQ-18A-C	D	Year 1 to Year 4
Austria	SCQ-18A-C	D	Grades 1 to 4
Azerbaijan	SCQ-18A-C	D	Grades 1 to 4
Bahrain	SCQ-18A	D	Grades 1 to 4
Belgium (Flemish)	SCQ-18A-C	X	Question not administered or data not available
Botswana	SCQ-18A-C	D	Standards 3 to 6
Chile	SCQ-18A-C	D	Grades 1 to 4
Chinese Taipei	SCQ-18A-C	D	Grades 1 to 4
Croatia	SCQ-18A-C	D	Grades 1 to 4
Czech Republic	SCQ-18A-C	D	Grades 1 to 4
Denmark	SCQ-18A-C	D	Grades 1 to 4
Dubai, UAE	SCQ-18A-C	D	Grades 1 to 4
England	SCQ-18A-C	D	Years 2-5
Finland	SCQ-18A-C	D	Grades 1 to 4
Florida, US	SCQ-18A-C	D	Grades 1 to 4
Georgia	SCQ-18A-C	D	From grade 1 to grade 4
Germany	SCQ-18A-C	D	Grades 1 to 4
Honduras	SCQ-18A-C	D	Grades 1 to 6
Hong Kong SAR	SCQ-18A-C	D	Primary 1 to 4

SECTION 3: FOURTH GRADE – SCHOOL QUESTIONNAIRE

Hungary	SCQ-18A-C	D	Grades 1-4
Iran, Islamic Rep. of	SCQ-18A-C	D	Grades 1 to 4
Ireland	SCQ-18A-C	D	First to fourth class
Italy	SCQ-18A-C	D	First grade to fourth grade
Japan	SCQ-18A-C	D	Grades 1 to 4
Kazakhstan	SCQ-18A-C	D	Primary school
Korea, Rep. of	SCQ-18A-C	D	Grades 1 to 4
Kuwait	SCQ-18A-C	D	Grades 1 to 4
Lithuania	SCQ-18A-C	D	1st grade to 4th grade
Malta	SCQ-18A-C	D	Stem of the question changed: Compared with other areas of the curriculum (e.g., mathematics and science), how much emphasis does your school place on teaching the following English language and literacy skills to students in Years 1 to 5?
Morocco	SCQ-18A-C	D	From the first grade of primary school to the fourth grade
Netherlands	SCQ-18A-C	X	Question not administered or data not available
New Zealand	SCQ-18A-C	X	Question not administered or data not available
North Carolina, US	SCQ-18A-C	D	Grades 1 to 4
Northern Ireland	SCQ-18A-C	D	Years 1 to 6
Norway	SCQ-18A-C	D	Grades 1 to 4
Oman	SCQ-18A-C	D	Grades 1 to 4
Ontario, Canada	SCQ-18A-C	D	Grades 1 to 4
Poland	SCQ-18A-C	D	The period of integrated education (grades 1 to 3)
Portugal	SCQ-18A-C	D	1st cycle
Qatar	SCQ-18A-C	D	Grades 1 to 4
Quebec, Canada	SCQ-18A-C	D	Grades 1 to 4
Romania	SCQ-18A-C	D	Grades 1 to 4
Russian Federation	SCQ-18A-C	D	Primary school
Saudi Arabia	SCQ-18A-C	D	Grades 1 to 4
Serbia	SCQ-18A-C	D	Grades 1 to 4
Singapore	SCQ-18A-C	D	Primary 1 to Primary 4
Slovak Republic	SCQ-18A-C	D	1st to 4th grade

SECTION 3: FOURTH GRADE – SCHOOL QUESTIONNAIRE

Slovenia	SCQ-18A-C	D	Grades 1 to 4
Spain	SCQ-18A-C	D	1st to 4th year
Sweden	SCQ-18A-C	D	Grades 1 to 4
Thailand	SCQ-18A-C	D	Grades 1 to 4
Tunisia	SCQ-18A-C	D	Grades 1 to 4
Turkey	SCQ-18A-C	D	Grades 1 to 4
United Arab Emirates	SCQ-18A-C	D	Grades 1 to 4
United States	SCQ-18A-C	D	Grades 1 to 4
Yemen	SCQ-18A-C	D	Grades 1 to 4
Yemen (6)	SCQ-18A-C	D	Grades 1 to 6

SCQ-19

Question:

For students in <fourth grade> and below, does your school make provisions for reading instruction in mother tongue for students whose mother tongue is not <language of test>?

1 = Yes

2 = No

Variable Name(s): ACBG19

Country	Item ID	Code	Documentation
Australia	SCQ-19	D	Stem of the question changed: For students in Year 4 and below, does your school make provisions for reading instruction in other languages for students whose first language is not English?
Lithuania	SCQ-19	D	For students in primary classes
Netherlands	SCQ-19	X	Question not administered or data not available
New Zealand	SCQ-19	X	Question not administered or data not available
Singapore	SCQ-19	D	Gang punched to "Yes"
Yemen	SCQ-19	X	Question not administered or data not available
Yemen (6)	SCQ-19	X	Question not administered or data not available

Section 4

Eighth Grade – Student Questionnaire

SQIS-02A-B / SQSS-02A-B**Question:**

When were you born?

A: Month B: Year
 1 = January 1 = 1993
 2 = February 2 = 1994
 3 = March 3 = 1995
 4 = April 4 = 1996
 5 = May 5 = 1997
 6 = June 6 = 1998
 7 = July 7 = 1999
 8 = August 8 = 2000
 9 = September 9 = 2001
 10 = October 10 = Other
 11 = November
 12 = December

Variable Name(s): BSBG02A, BSBG02B

Country	Item ID	Code	Documentation
Chinese Taipei	SQIS-02B	D	Corresponding years of the Republican calendar used
Iran, Islamic Rep. of	SQIS-02A-B	D	Corresponding years and months of the Persian calendar used

SQIS-03 / SQSS-03**Question:**

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

1 = Always
 2 = Almost always
 3 = Sometimes
 4 = Never

Variable Name(s): BSBG03

Country	Item ID	Code	Documentation
Chinese Taipei	SQIS-03	D	National options recoded for international comparability: 1 = Always 2 = Almost always / Often 3 = Sometimes 4 = Never

SQIS-05A-K / SQSS-05A-K**Question:**

Do you have any of these things at your home?

A: Computer

B: Study desk/table for your use

C: Books of your very own (do not count your school books)

D: Your own room

E: Internet connection

F: <country-specific indicator of wealth>

G: <country-specific indicator of wealth>

H: <country-specific indicator of wealth>

I: <country-specific indicator of wealth>

J: <country-specific indicator of wealth>

K: <country-specific indicator of wealth>

1 = Yes

2 = No

Variable Name(s): BSBG05A, BSBG05B, BSBG05C, BSBG05D, BSBG05E, BSBG05F, BSBG05G, BSBG05H, BSBG05I, BSBG05J, BSBG05K

Country	Item ID	Code	Documentation
Abu Dhabi, UAE	SQIS-05F	D	Personal laptop
Abu Dhabi, UAE	SQIS-05G	D	iPod
Abu Dhabi, UAE	SQIS-05H	D	Blackberry or iPhone
Abu Dhabi, UAE	SQIS-05I	D	PlayStation Portable
Abu Dhabi, UAE	SQIS-05J-K	X	Option not administered or data not available
Alabama, US	SQIS-05F	D	Encyclopedia (a book or CD)
Alabama, US	SQIS-05G	D	Play Station®, Game Cube®, Xbox®, or other TV/Video Game system
Alabama, US	SQIS-05H	D	VCR, DVD, or Blu-ray player
Alabama, US	SQIS-05I-K	X	Option not administered or data not available
Alberta, Canada	SQIS-05F	D	A quiet place to study
Alberta, Canada	SQIS-05G	D	Books to help with your school work (e.g., dictionary, encyclopedia)
Alberta, Canada	SQIS-05H	D	DVD player
Alberta, Canada	SQIS-05I	D	iPod/MP3 player
Alberta, Canada	SQIS-05J	D	Video-game console (e.g., X-box, PlayStation, Wii)
Alberta, Canada	SQIS-05K	D	Works of art (e.g., paintings)
Armenia	SQSS-05F-K	X	Option not administered or data not available
Australia	SQIS-05F	D	Digital camera (not on a mobile phone)
Australia	SQIS-05G	D	Portable MP3 player (e.g., iPod)
Australia	SQIS-05H	D	Musical instruments (e.g., piano, violin, guitar)

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Australia	SQIS-05I-K	X	Option not administered or data not available
Bahrain	SQIS-05F	D	Mobile phone
Bahrain	SQIS-05G	D	BlackBerry®
Bahrain	SQIS-05H	D	Car
Bahrain	SQIS-05I	D	PSP® (PlayStation®Portable)
Bahrain	SQIS-05J	D	iPod™
Bahrain	SQIS-05K	D	PlayStation3® or Xbox™
Botswana	SQIS-05F	D	Calculator
Botswana	SQIS-05G	D	Dictionary
Botswana	SQIS-05H	D	Running tap water
Botswana	SQIS-05I	D	Electricity
Botswana	SQIS-05J	D	Television
Botswana	SQIS-05K	D	Radio
California, US	SQIS-05F	D	Encyclopedia (a book or CD)
California, US	SQIS-05G	D	Play Station®, Game Cube®, Xbox®, or other TV/Video Game system
California, US	SQIS-05H	D	VCR, DVD, or Blu-ray player
California, US	SQIS-05I-K	X	Option not administered or data not available
Chile	SQIS-05F	D	Shower with hot water
Chile	SQIS-05G	D	Telephone
Chile	SQIS-05H	D	Cable or Satellite TV
Chile	SQIS-05I	D	Dishwasher
Chile	SQIS-05J	D	Car (car, jeep, pick up light truck, van, etc.)
Chile	SQIS-05K	D	Microwave oven
Chinese Taipei	SQIS-05F	D	DVDs, software, and videos for mathematics and science learning
Chinese Taipei	SQIS-05G	D	Violin or piano
Chinese Taipei	SQIS-05H	D	Dishwasher
Chinese Taipei	SQIS-05I	D	Security system
Chinese Taipei	SQIS-05J	D	Two or more private cars belonging to parents
Chinese Taipei	SQIS-05K	D	Two or more bedrooms with their own bathroom
Colorado, US	SQIS-05F	D	Encyclopedia (a book or CD)

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Colorado, US	SQIS-05G	D	Play Station®, Game Cube®, Xbox®, or other TV/Video Game system
Colorado, US	SQIS-05H	D	VCR, DVD, or Blu-ray player
Colorado, US	SQIS-05I-K	X	Option not administered or data not available
Connecticut, US	SQIS-05F	D	Encyclopedia (a book or CD)
Connecticut, US	SQIS-05G	D	Play Station®, Game Cube®, Xbox®, or other TV/Video Game system
Connecticut, US	SQIS-05H	D	VCR, DVD, or Blu-ray player
Connecticut, US	SQIS-05I-K	X	Option not administered or data not available
Dubai, UAE	SQIS-05F	D	Personal laptop
Dubai, UAE	SQIS-05G	D	iPod
Dubai, UAE	SQIS-05H	D	Blackberry or iPhone
Dubai, UAE	SQIS-05I	D	PlayStation Portable
Dubai, UAE	SQIS-05J-K	X	Option not administered or data not available
England	SQIS-05F	D	Your own mobile phone
England	SQIS-05G	D	Encyclopedia (book or CD ROM)
England	SQIS-05H	D	Your own television
England	SQIS-05I	D	Your own DVD player
England	SQIS-05J	D	Any musical instrument
England	SQIS-05K	D	A dishwasher
Finland	SQSS-05F	D	Your own mobile phone
Finland	SQSS-05G	D	Your own computer for you to use
Finland	SQSS-05H	D	Your own TV
Finland	SQSS-05I	D	A musical instrument (e.g., piano, guitar)
Finland	SQSS-05J	D	Pet(s)
Finland	SQSS-05K	X	Option not administered or data not available
Florida, US	SQIS-05F	D	Encyclopedia (a book or CD)
Florida, US	SQIS-05G	D	Play Station®, Game Cube®, Xbox®, or other TV/Video Game system
Florida, US	SQIS-05H	D	VCR, DVD, or Blu-ray player
Florida, US	SQIS-05I-K	X	Option not administered or data not available
Georgia	SQSS-05F	D	Family owned car
Georgia	SQSS-05G	D	Washing machine

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Georgia	SQSS-05H	D	Summer-cottage
Georgia	SQSS-05I	D	DVD player
Georgia	SQSS-05J-K	X	Option not administered or data not available
Ghana	SQIS-05F	D	Calculator
Ghana	SQIS-05G	D	Dictionary
Ghana	SQIS-05H	D	Electricity
Ghana	SQIS-05I	D	Car / motorbike / bicycle
Ghana	SQIS-05J	D	Tap water
Ghana	SQIS-05K	D	Chalk / blackboard
Honduras	SQIS-05F	D	Telephone or cell phone
Honduras	SQIS-05G	D	TV
Honduras	SQIS-05H	D	Stereo sound equipment
Honduras	SQIS-05I	D	Washing machine
Honduras	SQIS-05J	D	Electric stove
Honduras	SQIS-05K	D	Car
Hong Kong SAR	SQIS-05F	D	Taking piano or other orchestral instrument lessons (e.g., violin, clarinet, saxophone, etc.)
Hong Kong SAR	SQIS-05G	D	Domestic help
Hong Kong SAR	SQIS-05H	D	Car
Hong Kong SAR	SQIS-05I	D	A private tutor
Hong Kong SAR	SQIS-05J	D	Travelling by plane with my parents at least twice last year
Hong Kong SAR	SQIS-05K	D	Going to art centres, museums, and cultural centres with my parents last year
Hungary	SQSS-05F	D	Digital camera (not part of a phone)
Hungary	SQSS-05G	D	Car owned by your family
Hungary	SQSS-05H	D	Dishwasher
Hungary	SQSS-05I	D	Your own iPod, MP3/MP4 player
Hungary	SQSS-05J	D	Home cinema system
Hungary	SQSS-05K	D	Your own bicycle
Indiana, US	SQIS-05F	D	Encyclopedia (a book or CD)
Indiana, US	SQIS-05G	D	Play Station®, Game Cube®, Xbox®, or other TV/Video Game system

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Indiana, US	SQIS-05H	D	VCR, DVD, or Blu-ray player
Indiana, US	SQIS-05I-K	X	Option not administered or data not available
Indonesia	SQSS-05F	D	Electricity
Indonesia	SQSS-05G	D	Refrigerator
Indonesia	SQSS-05H	D	Color television
Indonesia	SQSS-05I	D	Telephone
Indonesia	SQSS-05J	D	Radio
Indonesia	SQSS-05K	D	Motorcycle / car
Iran, Islamic Rep. of	SQIS-05F	D	Your own mobile phone
Iran, Islamic Rep. of	SQIS-05G	D	Handycam
Iran, Islamic Rep. of	SQIS-05H	D	Television
Iran, Islamic Rep. of	SQIS-05I	D	Any kind of audio visual player
Iran, Islamic Rep. of	SQIS-05J	D	Car
Iran, Islamic Rep. of	SQIS-05K	D	Piano
Israel	SQIS-05D,J-K	X	Option not administered or data not available
Israel	SQIS-05F	D	Your own mobile telephone
Israel	SQIS-05G	D	Flatscreen television (plasma, LCD)
Israel	SQIS-05H	D	Dishwasher
Israel	SQIS-05I	D	Games like Wii or PlayStation
Italy	SQIS-05F	D	Your own smart-phone
Italy	SQIS-05G	D	Air conditioning
Italy	SQIS-05H	D	Anti-theft device
Italy	SQIS-05I	D	Dishwasher
Italy	SQIS-05J	D	Hydro-massage bathtub
Italy	SQIS-05K	D	Your own musical instrument (except flute)
Japan	SQIS-05F	D	Calculator
Japan	SQIS-05G	D	Dictionary
Japan	SQIS-05H	D	Book or puzzle related to mathematics (except textbook, dictionary, workbook)
Japan	SQIS-05I	D	Astronomical telescope

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Japan	SQIS-05J	D	Terrestrial globe
Japan	SQIS-05K	D	Pictorial book of plants
Jordan	SQIS-05F	D	Digital camera
Jordan	SQIS-05G	D	Automatic washing machine
Jordan	SQIS-05H	D	Central heating
Jordan	SQIS-05I	D	Air conditioning
Jordan	SQIS-05J	D	Cell phone for your own use
Jordan	SQIS-05K	D	Special room for physical training
Kazakhstan	SQSS-05F	D	Mobile phone
Kazakhstan	SQSS-05G	D	Plasma TV
Kazakhstan	SQSS-05H	D	Car
Kazakhstan	SQSS-05I	D	Digital photo or video camera
Kazakhstan	SQSS-05J	D	Automatic washing machine
Kazakhstan	SQSS-05K	D	Dishwasher
Korea, Rep. of	SQIS-05F	D	Car
Korea, Rep. of	SQIS-05G	D	Air-conditioner
Korea, Rep. of	SQIS-05H	D	Water purifier
Korea, Rep. of	SQIS-05I	D	Digital television (ex. wall-mounted television, flat-panel television)
Korea, Rep. of	SQIS-05J	D	Kimchi refrigerator for maturing
Korea, Rep. of	SQIS-05K	D	Air cleaner
Lebanon	SQSS-05F	D	Dictionary
Lebanon	SQSS-05G	D	Calculator
Lebanon	SQSS-05H	D	Scientific encyclopedia
Lebanon	SQSS-05I	D	Scientific magazines
Lebanon	SQSS-05J-K	X	Option not administered or data not available
Lithuania	SQSS-05F	D	Your own mobile phone
Lithuania	SQSS-05G	D	Video / DVD player
Lithuania	SQSS-05H	D	Encyclopedia, dictionary
Lithuania	SQSS-05I	D	Automatic washing machine
Lithuania	SQSS-05J	D	Dishwasher

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Lithuania	SQSS-05K	D	Car
Macedonia, Rep. of	SQSS-05F	D	Mobile phone
Macedonia, Rep. of	SQSS-05G	D	TV
Macedonia, Rep. of	SQSS-05H	D	DVD
Macedonia, Rep. of	SQSS-05I	D	Dishwasher
Macedonia, Rep. of	SQSS-05J	D	Washing machine
Macedonia, Rep. of	SQSS-05K	D	Car
Malaysia	SQIS-05F	D	Calculator
Malaysia	SQIS-05G	D	Dictionary
Malaysia	SQIS-05H	D	Reference book
Malaysia	SQIS-05I	D	Video
Malaysia	SQIS-05J-K	X	Option not administered or data not available
Massachusetts, US	SQIS-05F	D	Encyclopedia (a book or CD)
Massachusetts, US	SQIS-05G	D	Play Station®, Game Cube®, Xbox®, or other TV/Video Game system
Massachusetts, US	SQIS-05H	D	VCR, DVD, or Blu-ray player
Massachusetts, US	SQIS-05I-K	X	Option not administered or data not available
Minnesota, US	SQIS-05F	D	Encyclopedia (a book or CD)
Minnesota, US	SQIS-05G	D	Play Station®, Game Cube®, Xbox®, or other TV/Video Game system
Minnesota, US	SQIS-05H	D	VCR, DVD, or Blu-ray player
Minnesota, US	SQIS-05I-K	X	Option not administered or data not available
Morocco	SQSS-05F	D	Bicycle
Morocco	SQSS-05G	D	Cell phone
Morocco	SQSS-05H	D	Electronic games
Morocco	SQSS-05I	D	Musical instrument
Morocco	SQSS-05J	D	Microscope
Morocco	SQSS-05K	D	Telescope
New Zealand	SQIS-05F	D	Musical instruments (e.g., piano, violin, guitar)
New Zealand	SQIS-05G	D	Clothes dryer
New Zealand	SQIS-05H	D	Dishwasher
New Zealand	SQIS-05I	D	Two or more bathrooms

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

New Zealand	SQIS-05J	D	Your own computer or laptop
New Zealand	SQIS-05K	D	Swimming pool or spa pool (do not include paddling pools)
North Carolina, US	SQIS-05F	D	Encyclopedia (a book or CD)
North Carolina, US	SQIS-05G	D	Play Station®, Game Cube®, Xbox®, or other TV/Video Game system
North Carolina, US	SQIS-05H	D	VCR, DVD, or Blu-ray player
North Carolina, US	SQIS-05I-K	X	Option not administered or data not available
Norway	SQIS-05F	D	Your own cellphone
Norway	SQIS-05G	D	Your own television
Norway	SQIS-05H	D	Flat-screen TV
Norway	SQIS-05I	D	More than one PC
Norway	SQIS-05J	D	MP3 player
Norway	SQIS-05K	D	Computer games
Oman	SQIS-05F	D	GSM
Oman	SQIS-05G	D	Television
Oman	SQIS-05H	D	Musical instrument(s)
Oman	SQIS-05I	D	PlayStation
Oman	SQIS-05J	D	iPod
Oman	SQIS-05K	D	CD Player
Ontario, Canada	SQIS-05F	D	A quiet place to study
Ontario, Canada	SQIS-05G	D	Books to help with your school work (e.g., dictionary, encyclopedia)
Ontario, Canada	SQIS-05H	D	DVD player
Ontario, Canada	SQIS-05I	D	iPod/MP3 player
Ontario, Canada	SQIS-05J	D	Video-game console (e.g., X-box, PlayStation, Wii)
Ontario, Canada	SQIS-05K	D	Works of art (e.g., paintings)
Palestinian Nat'l Auth.	SQIS-05F	D	TV with satellite
Palestinian Nat'l Auth.	SQIS-05G-K	X	Option not administered or data not available
Qatar	SQIS-05F	D	Private house maid
Qatar	SQIS-05G	D	Private car driver
Qatar	SQIS-05H-K	X	Option not administered or data not available
Quebec, Canada	SQIS-05F	D	A quiet place to study

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Quebec, Canada	SQIS-05G	D	Books to help with your school work (e.g., dictionary, encyclopedia)
Quebec, Canada	SQIS-05H	D	DVD player
Quebec, Canada	SQIS-05I	D	iPod/MP3 player
Quebec, Canada	SQIS-05J	D	Video-game console (e.g., X-box, PlayStation, Wii)
Quebec, Canada	SQIS-05K	D	Works of art (e.g., paintings)
Romania	SQSS-05F	D	Your own mobile phone
Romania	SQSS-05G	D	LCD/LED TV set
Romania	SQSS-05H	D	Home-video system
Romania	SQSS-05I	D	Swimming pool
Romania	SQSS-05J	D	Car
Romania	SQSS-05K	D	Summer house
Russian Federation	SQSS-05F	D	Mobile phone (for your use)
Russian Federation	SQSS-05G	D	LCD or PDP TV
Russian Federation	SQSS-05H	D	Car (one or more)
Russian Federation	SQSS-05I	D	Digital camera or video camera
Russian Federation	SQSS-05J	D	Home cinema
Russian Federation	SQSS-05K	D	Dishwasher
Saudi Arabia	SQIS-05F	D	Bicycle
Saudi Arabia	SQIS-05G	D	Motorcycle
Saudi Arabia	SQIS-05H	D	TV in your room
Saudi Arabia	SQIS-05I	D	DVD player
Saudi Arabia	SQIS-05J	D	PlayStation Games
Saudi Arabia	SQIS-05K	D	Mobile phone
Singapore	SQIS-05F	D	Car
Singapore	SQIS-05G	D	Domestic help (e.g., maid)
Singapore	SQIS-05H	D	Air-conditioner
Singapore	SQIS-05I	D	Your own mobile phone
Singapore	SQIS-05J	D	Your own multi-media player (e.g., MP3/DVD player, iPod)
Singapore	SQIS-05K	D	Your own video games (e.g., Nintendo®, Gameboy® or PlayStation®)
Slovenia	SQSS-05F	D	Art (e.g., paintings, statues)

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Slovenia	SQSS-05G	D	Payed domestic help
Slovenia	SQSS-05H	D	I go on vacation abroad with my parents every year
Slovenia	SQSS-05I	D	Your own computer
Slovenia	SQSS-05J	D	We go for family lunch or dinner at a restaurant
Slovenia	SQSS-05K	D	To go on vacations we travel by plane
South Africa	SQIS-05F	D	Your own cell phone
South Africa	SQIS-05G	D	Dictionary
South Africa	SQIS-05H	D	Electricity
South Africa	SQIS-05I	D	Running tap water
South Africa	SQIS-05J	D	Television
South Africa	SQIS-05K	D	Video player
Sweden	SQSS-05F	D	Subscription to a newspaper
Sweden	SQSS-05G	D	Flat screen TV
Sweden	SQSS-05H	D	Globe
Sweden	SQSS-05I	D	Piano
Sweden	SQSS-05J	D	Musical instrument other than piano
Sweden	SQSS-05K	X	Option not administered or data not available
Syrian Arab Republic	SQSS-05F	D	Sport devices
Syrian Arab Republic	SQSS-05G	D	Educational games
Syrian Arab Republic	SQSS-05H	D	Mobile phone
Syrian Arab Republic	SQSS-05I	D	Home garden
Syrian Arab Republic	SQSS-05J	D	Musical instrument
Syrian Arab Republic	SQSS-05K	D	Tame animal
Thailand	SQIS-05F	D	Laptop
Thailand	SQIS-05G	D	Talking dictionary
Thailand	SQIS-05H	D	Television
Thailand	SQIS-05I	D	MP3 player
Thailand	SQIS-05J	D	VCD player, DVD player
Thailand	SQIS-05K	D	Telephone
Tunisia	SQIS-05F	D	Bathroom

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Tunisia	SQIS-05G	D	DVD player
Tunisia	SQIS-05H	D	Car
Tunisia	SQIS-05I	D	Air conditioner
Tunisia	SQIS-05J	D	Freezer
Tunisia	SQIS-05K	D	Washing machine
Turkey	SQIS-05F	D	Dishwasher
Turkey	SQIS-05G	D	Washing machine
Turkey	SQIS-05H	D	Heating system
Turkey	SQIS-05I	D	Cooling system (air conditioner)
Turkey	SQIS-05J	D	DVD/VCD Player
Turkey	SQIS-05K	X	Option not administered or data not available
Ukraine	SQSS-05F	D	Your own mobile phone
Ukraine	SQSS-05G	D	Family car
Ukraine	SQSS-05H	D	Encyclopedias and reference books
Ukraine	SQSS-05I	D	Musical instrument(s)
Ukraine	SQSS-05J-K	X	Option not administered or data not available
United Arab Emirates	SQIS-05F	D	Personal laptop
United Arab Emirates	SQIS-05G	D	iPod
United Arab Emirates	SQIS-05H	D	Blackberry or iPhone
United Arab Emirates	SQIS-05I	D	PlayStation Portable
United Arab Emirates	SQIS-05J-K	X	Option not administered or data not available
United States	SQIS-05F	D	Encyclopedia (a book or CD)
United States	SQIS-05G	D	Play Station®, Game Cube®, Xbox®, or other TV/Video Game system
United States	SQIS-05H	D	VCR, DVD, or Blu-ray player
United States	SQIS-05I-K	X	Option not administered or data not available

SQIS-06A-B / SQSS-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 Level 2>

3 = <ISCED Level 3>

4 = <ISCED Level 4>

5 = <ISCED Level 5B>

6 = <ISCED Level 5A, first degree>

7 = Beyond <ISCED Level 5A, first degree>

8 = I don't know

Variable Name(s): BSBG06A, BSBG06B

Country	Item ID	Code	Documentation
Abu Dhabi, UAE	SQIS-06A-B	D	Nationally defined options: 1 = Some primary school or did not go to school 2 = Some secondary school 3 = Secondary school 4 = Training Certificate, Apprenticeship or Traineeship 5 = College diploma 6 = Bachelor's degree 7 = Beyond Bachelor's degree (e.g., Master of Arts, PhD) 8 = I don't know
Alabama, US	SQIS-06A-B	D	National options recoded for international comparability: 1 = Some elementary or junior high/middle 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 vocational/technical program 6 = 2-year or 4-year college or university degree (i.e., Associate's or Bachelor's degree) 7 = Academic Master's degree, teaching certificate program, or first professional degree (e.g., law, medicine, dentistry) or higher 8 = I don't know
Alberta, Canada	SQIS-06A-B	D	National options recoded for international comparability: 1 = Some elementary school or did not go to school 2 = Elementary school 3 = High school 4 = College or CÉGEP 5 = Business, trade or vocational school 6 = University - Bachelor's degree 7 = University - Master's or PhD or equivalent 8 = I don't know
Armenia	SQSS-06A-B	D	National options recoded for international comparability: 1 = 1 or 2 years of school or did not go to school 2 = Elementary school / Middle school 3 = Secondary school 4 = Secondary professional college 5 = Option not administered or data not available 6 = Higher education 7 = Ph.D. or higher 8 = I don't know

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Australia	SQIS-06A-B	D	Nationally defined options: 1 = Primary school or did not go to school 2 = Primary school 3 = Secondary school 4 = TAFE training certificate, apprenticeship or traineeship 5 = TAFE or College Diploma (e.g. Diploma in Information Technology, Diploma in Veterinary Nursing) 6 = Undergraduate degree (e.g. Bachelor of Arts, BA, Bachelor of Commerce) 7 = Postgraduate degree (e.g. Honours, Master of Arts, PhD) 8 = I don't know
Bahrain	SQIS-06A-B	D	National options recoded for international comparability: 1 = Some Primary or Intermediate 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 = Post-graduate degree / Master's or higher 8 = I don't know
Botswana	SQIS-06A-B	D	Nationally defined options: 1 = Some Primary or [some] Junior Secondary or did not go to school 2 = Junior Secondary 3 = Senior Secondary 4 = Vocational / Technical Certificate 5 = Diploma 6 = First degree 7 = Masters degree or higher 8 = I don't know
California, US	SQIS-06A-B	D	National options recoded for international comparability: 1 = Some elementary or junior high/middle 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 vocational/technical program 6 = 2-year or 4-year college or university degree (i.e., Associate's or Bachelor's degree) 7 = Academic Master's degree, teaching certificate program, or first professional degree (e.g., law, medicine, dentistry) or higher 8 = I don't know
Chile	SQIS-06A-B	D	National options recoded for international comparability: 1 = Did not go to school or did not finish 8th grade 2 = 8th grade / Did not finish secondary school 3 = Secondary school / Incomplete post secondary studies 4 = Post secondary studies at a center of technical education 5 = Post secondary studies at a professional institute 6 = Post secondary studies at a university (licentiate or equivalent) 7 = Post graduate studies (master or doctorate) 8 = I don't know
Chinese Taipei	SQIS-06A-B	D	National options recoded for international comparability: 1 = Did not complete the education of primary school or did not go to school / Education of primary school 2 = Education of junior high school 3 = Education of senior high school or vocational high school 4 = Education of five-year or two-year junior college 5 = Two-year or four-year undergraduate program of university or college of science and technology, Bachelor degree 6 = Comprehensive university or college, Bachelor degree 7 = Master or higher 8 = I don't know

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Colorado, US	SQIS-06A-B	D	National options recoded for international comparability: 1 = Some elementary or junior high/middle 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 vocational/technical program 6 = 2-year or 4-year college or university degree (i.e., Associate's or Bachelor's degree) 7 = Academic Master's degree, teaching certificate program, or first professional degree (e.g., law, medicine, dentistry) or higher 8 = I don't know
Connecticut, US	SQIS-06A-B	D	National options recoded for international comparability: 1 = Some elementary or junior high/middle 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 vocational/technical program 6 = 2-year or 4-year college or university degree (i.e., Associate's or Bachelor's degree) 7 = Academic Master's degree, teaching certificate program, or first professional degree (e.g., law, medicine, dentistry) or higher 8 = I don't know
Dubai, UAE	SQIS-06A-B	D	Nationally defined options: 1 = Some primary school or did not go to school 2 = Some secondary school 3 = Secondary school 4 = Training Certificate, Apprenticeship or Traineeship 5 = College diploma 6 = Bachelor's degree 7 = Beyond Bachelor's degree (e.g., Master of Arts, PhD) 8 = I don't know
England	SQIS-06A-B	D	National options recoded for international comparability: 1 = Went to primary or secondary school and left before age 14, or did not go to school 2 = Left school at/after age 14 with no qualifications 3 = GCSE or equivalent (e.g., O-Level or CSE) / A Level or equivalent 4 = Access Course for Higher Education 5 = College certificate/diploma (HNC/HND) or equivalent 6 = First degree 7 = Beyond first degree 8 = I don't know
Finland	SQSS-06A-B	D	Nationally defined options: 1 = Part of the comprehensive school or did not go to school 2 = Comprehensive school , 9 years 3 = Upper secondary degree, either academic or vocational 4 = Post-secondary vocational degree 5 = Higher vocational degree 6 = Lower degree at the university or polytechnic, 3 years 7 = Beyond lower degree at the university or polytechnic 8 = I don't know
Florida, US	SQIS-06A-B	D	National options recoded for international comparability: 1 = Some elementary or junior high/middle 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 vocational/technical program 6 = 2-year or 4-year college or university degree (i.e., Associate's or Bachelor's degree) 7 = Academic Master's degree, teaching certificate program, or first professional degree (e.g., law, medicine, dentistry) or higher 8 = I don't know

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Georgia	SQSS-06A-B	D	<p>National options recoded for international comparability:</p> <p>1 = Did not go to school or primary school (4 years) 2 = Basic school (9 years) 3 = Secondary school (11 years) / secondary vocational (after 9th grade) 4 = Post-secondary vocational (after 11th grade) 5 = High vocational school 6 = Bachelor's degree (4 years) 7 = Master's degree or PhD (includes former 5 years of university education) 8 = I don't know</p>
Ghana	SQIS-06A-B	D	<p>Nationally defined options:</p> <p>1 = Some primary school or did not go to school 2 = Junior high School / middle school leaving certificate 3 = Senior secondary / secondary technical / GCE O level 4 = Post secondary / teacher/ nursing training / GCE A level 5 = National diploma (HND) 6 = First degree 7 = Post graduate 8 = I don't know</p>
Honduras	SQIS-06A-B	D	<p>Nationally defined options:</p> <p>1 = Some primary or basic education or did not go to school 2 = Basic education 3 = High school 4 = Non-university technical education 5 = Technical university or higher education 6 = Undergraduate college education (BA, Engineering, etc.) 7 = Graduate education (Master or higher) 8 = I don't know</p>
Hong Kong SAR	SQIS-06A-B	D	<p>Nationally defined options:</p> <p>1 = Some primary or lower secondary education or did not go to school 2 = Lower secondary education 3 = Upper secondary education (F.5, F.6 or F.7) 4 = Vocational training after secondary education 5 = Post-secondary certificate or diploma (e.g., a Certificate in Education awarded by the Institute of Education or the former Colleges of Education), or an associate degree 6 = University (Bachelor's degree) 7 = Master's degree or above 8 = I don't know</p>
Hungary	SQSS-06A-B	D	<p>National options recoded for international comparability:</p> <p>1 = Did not finished general school or did not go to school 2 = General school 3 = Vocational school / Secondary vocational school or grammar school with final exam (matura) 4 = Vocational programs (usually two years) based on Maturity examination 5 = Accredited post secondary vocational programs 6 = College, or university BA level 7 = University, or university MA level / Higher than university or university MA level (e.g., PhD, University post-graduate programme) 8 = I don't know</p>
Indiana, US	SQIS-06A-B	D	<p>National options recoded for international comparability:</p> <p>1 = Some elementary or junior high/middle 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 vocational/technical program 6 = 2-year or 4-year college or university degree (i.e., Associate's or Bachelor's degree) 7 = Academic Master's degree, teaching certificate program, or first professional degree (e.g., law, medicine, dentistry) or higher 8 = I don't know</p>

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Indonesia	SQSS-06A-B	D	Nationally defined options: 1 = Elementary school or did not go to school 2 = Lower secondary school 3 = Senior high school 4 = Diploma 1 / Diploma 2 5 = Diploma 3 / Diploma 4 6 = Bachelor degree 7 = Master degree or higher 8 = I don't know
Iran, Islamic Rep. of	SQIS-06A-B	D	Nationally defined options: 1 = Didn't go to school or didn't finish primary school 2 = Lower secondary education 3 = High school education 4 = Pre college level or professional short course like computer course 5 = Two years college 6 = First degree (Bachelor of science) 7 = Beyond first degree 8 = I don't know
Israel	SQIS-06A-B	D	Nationally defined options: 1 = Part of primary/middle school or did not go to school 2 = Middle school 3 = High school 4 = Preparatory school (a year of academic preparation) 5 = Post-secondary trade school (education in a non-academic faculty) 6 = First degree academic studies (with B.A., B.Ed., or B.Sc.) 7 = Academic studies after first degree (second degree or doctorate) 8 = I don't know
Italy	SQIS-06A-B	D	Nationally defined options: 1 = Did not go to school or did not complete lower secondary education diploma 2 = Lower secondary education diploma 3 = Upper secondary education diploma 4 = 2nd level regional vocational training diploma 5 = Academy of art, Academy of dramatic art, Design Institute, Conservatoire diploma 6 = University degree 7 = Post-university degree (e.g., PhD, post-graduate school, master) 8 = I don't know
Japan	SQIS-06A-B	D	Nationally defined options: 1 = Elementary school or did not complete a school 2 = Lower-secondary school 3 = Upper-secondary school 4 = Junior college 5 = Specific college (e.g., the meteorological college, National Defence Academy) 6 = University or college 7 = Graduate school 8 = I don't know
Jordan	SQIS-06A-B	D	Nationally defined options: 1 = Some basic stage education (grades 1-10) or did not go to school 2 = Basic stage education (grades 1-10) 3 = Secondary education 4 = Community college diploma (2 years study) 5 = Community college diploma (3 years study) 6 = First university degree 7 = Higher than the first university degree (postgraduate degree) 8 = I don't know

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Kazakhstan	SQSS-06A-B	D	<p>National options recoded for international comparability:</p> <p>1 = Did not complete primary or basic education or did not go to school 2 = Basic general education (Grades 1-9) 3 = Secondary general education (11 years) or first-level vocational education after basic education 4 = Second-level vocational education after secondary school (e.g., technical school) / Secondary vocational education (e.g., technicum, college) 5 = Option not administered or data not available 6 = Higher education (bachelor or professional degree) 7 = Second higher education, candidate / master or doctorate (PhD) 8 = I don't know</p>
Korea, Rep. of	SQIS-06A-B	D	<p>National options recoded for international comparability:</p> <p>1 = Did not go to school, finished elementary school, did not complete middle school 2 = Middle school 3 = High school 4 = Option not administered or data not available 5 = College of 2 or 3 years 6 = University of 4 years 7 = Graduate school 8 = I don't know</p>
Lebanon	SQSS-06A-B	D	<p>National options recoded for international comparability:</p> <p>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</p>
Lithuania	SQSS-06A-B	D	<p>Nationally defined options:</p> <p>1 = Did not go to school or finished only few classes 2 = Basic school 3 = Secondary education (general secondary or vocational secondary school) 4 = Post-secondary non-tertiary education (1-2 years) 5 = Higher non-university education (college) 6 = Bachelor's degree 7 = Higher than Bachelor's degree 8 = I don't know</p>
Macedonia, Rep. of	SQSS-06A-B	D	<p>National options recoded for international comparability:</p> <p>1 = Some grades of primary school or did not go to school / Primary education (4 years) 2 = Basic education (8 years) 3 = Secondary education 4 = Post-secondary vocational education 5 = Option not administered or data not available 6 = Higher education (college) 7 = Post-graduate university degree (Master's or higher) 8 = I don't know</p>
Malaysia	SQIS-06A-B	D	<p>Nationally defined options:</p> <p>1 = Some primary or lower secondary education or did not go to school 2 = Lower secondary 3 = Upper secondary 4 = Post secondary 5 = Tertiary level - diploma 6 = Tertiary level - first degree 7 = Tertiary level - first degree, second degree or higher 8 = I don't know</p>

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Massachusetts, US	SQIS-06A-B	D	National options recoded for international comparability: 1 = Some elementary or junior high/middle 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 vocational/technical program 6 = 2-year or 4-year college or university degree (i.e., Associate's or Bachelor's degree) 7 = Academic Master's degree, teaching certificate program, or first professional degree (e.g., law, medicine, dentistry) or higher 8 = I don't know
Minnesota, US	SQIS-06A-B	D	National options recoded for international comparability: 1 = Some elementary or junior high/middle 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 vocational/technical program 6 = 2-year or 4-year college or university degree (i.e., Associate's or Bachelor's degree) 7 = Academic Master's degree, teaching certificate program, or first professional degree (e.g., law, medicine, dentistry) or higher 8 = I don't know
Morocco	SQSS-06A-B	D	National options recoded for international comparability: 1 = Some basic or primary education or did not go to school / Primary education 2 = Preparatory level (Middle School) 3 = Secondary level 4 = Option not administered or data not available 5 = Option not administered or data not available 6 = Bachelor or equivalent 7 = Master / Doctorate 8 = I don't know
New Zealand	SQIS-06A-B	D	National options recoded for international comparability: 1 = Left school before the end of Year 10 (Form 4) or did not go to school 2 = Up to the end of Year 10 (Form 4) / Year 11 (Form 5) and left with School Certificate 3 = Year 12 (Form 6) or Year 13 (Form 7) and left with at least Sixth Form Certificate 4 = Trade certificate or national certificate course at polytechnic 5 = National or vocational diploma 6 = Bachelor's degree 7 = Bachelor's Honours degree, Post-graduate diploma, Master's or PhD 8 = I don't know
North Carolina, US	SQIS-06A-B	D	National options recoded for international comparability: 1 = Some elementary or junior high/middle 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 vocational/technical program 6 = 2-year or 4-year college or university degree (i.e., Associate's or Bachelor's degree) 7 = Academic Master's degree, teaching certificate program, or first professional degree (e.g., law, medicine, dentistry) or higher 8 = I don't know
Norway	SQIS-06A-B	D	Nationally defined options: 1 = Primary education or did not go to school 2 = Lower secondary school 3 = Upper secondary school 4 = Post-upper secondary education, but not university or college 5 = University or college (less than 3 years) 6 = University or college (3 years or more) 7 = PhD 8 = I don't know

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Oman	SQIS-06A-B	D	National options recoded for international comparability: 1 = Some elementary up to grade 6 or did not go to school 2 = Grade 9 3 = Secondary school 4 = Diploma 5 = Option not administered or data not available 6 = University, first degree 7 = Beyond the first degree 8 = I don't know
Ontario, Canada	SQIS-06A-B	D	National options recoded for international comparability: 1 = Some elementary school or did not go to school 2 = Elementary school 3 = High school 4 = College or CÉGEP 5 = Business, trade or vocational school 6 = University - Bachelor's degree 7 = University - Master's or PhD or equivalent 8 = I don't know
Palestinian Nat'l Auth.	SQIS-06A-B	D	National options recoded for international comparability: 1 = Did not go to school or did not finish 10th grade 2 = 10th grade 3 = Secondary certificate 4 = Diploma, 2 years / Diploma, 3 years 5 = Option not administered or data not available 6 = Bachelor's degree 7 = Master's degree or higher 8 = I don't know
Qatar	SQIS-06A-B	D	National options recoded for international comparability: 1 = Some primary or preparatory or did not go to school 2 = Preparatory level 3 = Secondary level 4 = Diploma (e.g., post secondary level but before university) 5 = Option not administered or data not available 6 = University 7 = Beyond university 8 = I don't know
Quebec, Canada	SQIS-06A-B	D	National options recoded for international comparability: 1 = Some elementary school or did not go to school 2 = Elementary school 3 = High school 4 = College or CÉGEP 5 = Business, trade or vocational school 6 = University - Bachelor's degree 7 = University - Master's or PhD or equivalent 8 = I don't know
Romania	SQSS-06A-B	D	Nationally defined options: 1 = Didn't finish primary or lower secondary education 2 = Lower secondary education 3 = Upper secondary education 4 = Post high school 5 = Higher education-short duration 6 = Higher education-long duration 7 = Post-university studies 8 = I don't know

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Russian Federation	SQSS-06A-B	D	National options recoded for international comparability: 1 = Primary or basic education 2 = Basic general education (9 grades) 3 = Secondary general education (11 grades) 4 = Initial vocational education (for example, professional school) / Secondary vocational education (for example, technical college, college) 5 = Option not administered or data not available 6 = Higher education (university, institute) 7 = Second university degree, candidate or doctor of sciences 8 = I don't know
Saudi Arabia	SQIS-06A	D	National options recoded for international comparability: 1 = Some elementary level education or did not go to school 2 = Intermediate level education 3 = Secondary level education 4 = Diploma (two years after secondary school) 5 = Option not administered or data not available 6 = Bachelor degree 7 = Beyond university (Bachelor) degree 8 = I don't know
Saudi Arabia	SQIS-06B	D	National options recoded for international comparability: 1 = Did not go to school 2 = Intermediate level education 3 = Secondary level education 4 = Option not administered or data not available 5 = Option not administered or data not available 6 = Bachelor degree 7 = Beyond university (Bachelor) degree 8 = I don't know
Singapore	SQIS-06A-B	D	Nationally defined options: 1 = Some Primary / Lower Secondary or did not go to school 2 = Lower Secondary (completed Secondary 2) 3 = Upper Secondary 4 = Post-secondary Non-tertiary (e.g., JC, CI, ITE) 5 = Polytechnic 6 = University First Degree 7 = Beyond University First Degree (e.g., Master's, PhD) 8 = I don't know
Slovenia	SQSS-06A-B	D	Nationally defined options: 1 = Did not finish elementary school 2 = Elementary school 3 = Secondary school 4 = Vocational training after secondary school 5 = University studies of 2 to 3 years 6 = University studies of 4 to 5 years 7 = Master degree or PhD 8 = I don't know
South Africa	SQIS-06A-B	D	National options recoded for international comparability: 1 = Did not go to school / Did not finish Grade 9 2 = Grade 9 (Standard 7) 3 = Grade 12 (Matric) 4 = Post-matric certificate 5 = Diploma 6 = First degree 7 = An honours degree or higher 8 = I don't know

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Sweden	SQSS-06A-B	D	Nationally defined options: 1 = No education or less than 9 years of education 2 = 9 years of elementary school 3 = Secondary school 4 = Tertiary education, not university or college 5 = Higher education up to 2 years (e.g., professional university or college degree) 6 = University or college degree 3-5 years (bachelor or master degree) 7 = Postgraduate education (licentiate or PhD degree) 8 = I don't know
Syrian Arab Republic	SQSS-06A-B	D	National options recoded for international comparability: 1 = Some first stage basic education or did not go to school 2 = Second stage basic education, second level 3 = Secondary education 4 = Intermediate institute 5 = Option not administered or data not available 6 = University (4-5 years) 7 = Master degree or higher 8 = I don't know
Thailand	SQIS-06A-B	D	National options recoded for international comparability: 1 = Some primary school or did not go to school 2 = Lower secondary school 3 = Upper secondary school or vocational certificate 4 = Diploma or high vocational certificate 5 = Option not administered or data not available 6 = Bachelor's degree (4 years) / Bachelor's degree (5 years or more) 7 = Beyond bachelor's degree 8 = I don't know
Tunisia	SQIS-06A-B	D	Nationally defined options: 1 = Some primary or preparatory education or did not go to school 2 = Preparatory education 3 = Secondary education 4 = Professional training after secondary education (baccalaureate) 5 = 1st cycle of university education 6 = 2nd cycle of university education 7 = 3rd cycle of university education or higher 8 = I don't know
Turkey	SQIS-06A-B	D	National options recoded for international comparability: 1 = Did not go to school or did not complete first stage of primary school / First stage of primary school or did not complete second stage of primary school 2 = Second stage of primary school 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 (BA) 7 = Tertiary education, second degree (MS/MA, PhD) 8 = I don't know
Ukraine	SQSS-06A-B	D	National options recoded for international comparability: 1 = Primary, or did not finish lower secondary, or did not go to school 2 = Lower secondary education (8 or 9 years) 3 = Secondary education (10 or 11 years) 4 = Vocational education (Technical Vocational school) / Technical school or college or incomplete higher 5 = Option not administered or data not available 6 = Higher education 7 = Second higher education or PhD 8 = I don't know

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

United Arab Emirates	SQIS-06A-B	D	Nationally defined options: 1 = Some primary school or did not go to school 2 = Some secondary school 3 = Secondary school 4 = Training Certificate, Apprenticeship or Traineeship 5 = College diploma 6 = Bachelor's degree 7 = Beyond Bachelor's degree (e.g., Master of Arts, PhD) 8 = I don't know
United States	SQIS-06A-B	D	National options recoded for international comparability: 1 = Some elementary or junior high/middle 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 vocational/technical program 6 = 2-year or 4-year college or university degree (i.e., Associate's or Bachelor's degree) 7 = Academic Master's degree, teaching certificate program, or first professional degree (e.g., law, medicine, dentistry) or higher 8 = I don't know

SQIS-07 / SQSS-07**Question:**

How far in your education do you expect to go?

- 1 = Finish <ISCED Level 2>
- 2 = Finish <ISCED Level 3>
- 3 = Finish <ISCED Level 4>
- 4 = Finish <ISCED Level 5B>
- 5 = Finish <ISCED Level 5A, first degree>
- 6 = Beyond <ISCED Level 5A, first degree>
- 7 = I don't know

Variable Name(s): BSBG07

Country	Item ID	Code	Documentation
Abu Dhabi, UAE	SQIS-07	D	Nationally defined options: 1 = Some secondary school 2 = Secondary school 3 = Training Certificate, Apprenticeship or Traineeship 4 = College diploma 5 = Bachelor's degree 6 = Beyond Bachelor's degree (e.g., Master of Arts, PhD) 7 = I don't know
Alabama, US	SQIS-07	D	Nationally defined options: 1 = Junior high/middle school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in a vocational/technical program 5 = 2-year or 4-year college or university degree (i.e., Associate's or Bachelor's degree) 6 = Beyond a bachelor's degree 7 = I don't know
Alberta, Canada	SQIS-07	D	National options recoded for international comparability: 1 = Elementary school 2 = High school 3 = College or CÉGEP 4 = Business, trade or vocational school 5 = University - Bachelor's degree 6 = University - Master's or PhD or equivalent 7 = I don't know
Armenia	SQSS-07	D	National options recoded for international comparability: 1 = Middle school 2 = Secondary school 3 = Professional college 4 = Option not administered or data not available 5 = Bachelor's degree 6 = Master's degree 7 = I don't know
Australia	SQIS-07	D	Nationally defined options: 1 = Year 10 2 = Year 12 3 = TAFE training certificate, apprenticeship or traineeship 4 = TAFE or College Diploma (e.g., Diploma in Information Technology, Diploma in Veterinary Nursing) 5 = Undergraduate degree (e.g., Bachelor of Arts, BA, Bachelor of Commerce) 6 = Postgraduate degree (e.g., Honours, Master of Arts, PhD) (e.g., Master of Arts, PhD) 7 = I don't know

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Bahrain	SQIS-07	D	National options recoded for international comparability: 1 = Intermediate 2 = Secondary 3 = Diploma 4 = Option not administered or data not available 5 = Bachelor's degree 6 = Post-graduate degree / beyond post-graduate degree 7 = I don't know
Botswana	SQIS-07	D	Nationally defined options: 1 = Junior Secondary 2 = Senior Secondary 3 = Vocational / Technical Certificate 4 = Diploma 5 = First degree 6 = Beyond first degree 7 = I don't know
California, US	SQIS-07	D	Nationally defined options: 1 = Junior high/middle school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in a vocational/technical program 5 = 2-year or 4-year college or university degree (i.e., Associate's or Bachelor's degree) 6 = Beyond a bachelor's degree 7 = I don't know
Chile	SQIS-07	D	Nationally defined options: 1 = 8th grade 2 = Secondary school 3 = Post secondary studies at a center of technical education 4 = Post secondary studies at a professional institute 5 = Post secondary studies at a university 6 = Post graduate studies 7 = I don't know
Chinese Taipei	SQIS-07	D	Nationally defined options: 1 = Education of junior high school 2 = Education of senior high school or vocational high school 3 = Education of five-year or two-year junior college 4 = Two-year or four-year undergraduate program of university or college of science and technology, Bachelor degree 5 = Comprehensive university or college, Bachelor degree 6 = Master or higher 7 = I don't know
Colorado, US	SQIS-07	D	Nationally defined options: 1 = Junior high/middle school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in a vocational/technical program 5 = 2-year or 4-year college or university degree (i.e., Associate's or Bachelor's degree) 6 = Beyond a bachelor's degree 7 = I don't know
Connecticut, US	SQIS-07	D	Nationally defined options: 1 = Junior high/middle school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in a vocational/technical program 5 = 2-year or 4-year college or university degree (i.e., Associate's or Bachelor's degree) 6 = Beyond a bachelor's degree 7 = I don't know

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Dubai, UAE	SQIS-07	D	Nationally defined options: 1 = Some secondary school 2 = Secondary school 3 = Training Certificate, Apprenticeship or Traineeship 4 = College diploma 5 = Bachelor's degree 6 = Beyond Bachelor's degree (e.g., Master of Arts, PhD) 7 = I don't know
England	SQIS-07	D	National options recoded for international comparability: 1 = Option not administered or data not available 2 = GCSE / A Level 3 = Access Course for Higher Education 4 = College certificate/diploma (HNC/HND) or equivalent 5 = First degree 6 = Beyond first degree 7 = I don't know
Finland	SQSS-07	D	Nationally defined options: 1 = Comprehensive school, 9 years 2 = Upper secondary degree, either academic or vocational 3 = Post-secondary vocational degree 4 = Higher vocational degree 5 = Lower degree at the university or polytechnic, 3 years 6 = Beyond lower degree at the university or polytechnic 7 = I don't know
Florida, US	SQIS-07	D	Nationally defined options: 1 = Junior high/middle school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in a vocational/technical program 5 = 2-year or 4-year college or university degree (i.e., Associate's or Bachelor's degree) 6 = Beyond a bachelor's degree 7 = I don't know
Georgia	SQSS-07	D	National options recoded for international comparability: 1 = Basic school (9 years) 2 = Secondary school (11 years) / Secondary vocational (after 9th grade) 3 = Post-secondary vocational (after 11th grade) 4 = High vocational school 5 = Bachelor's degree (4 years) 6 = Master's degree or PhD 7 = I don't know
Ghana	SQIS-07	D	Nationally defined options: 1 = JHS 2 = SHS 3 = Post secondary / teacher / nursing training 4 = Polytechnic 5 = University / first degree 6 = Beyond first degree 7 = I don't know
Honduras	SQIS-07	D	Nationally defined options: 1 = Basic education 2 = High school 3 = Non-university technical education 4 = Technical university or higher education 5 = Undergraduate college education (BA, Engineering, etc.) 6 = Graduate education (Master or higher) 7 = I don't know

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Hong Kong SAR	SQIS-07	D	Nationally defined options: 1 = Lower secondary education 2 = Upper secondary education (F.5, F.6 or F.7) 3 = Vocational training after secondary education 4 = Post-secondary certificate or diploma (e.g., a Certificate in Education awarded by the Institute of Education), or an associate degree 5 = University (Bachelor's degree) 6 = Master's degree or above 7 = I don't know
Hungary	SQSS-07	D	National options recoded for international comparability: 1 = General school 2 = Vocational school / Secondary vocational school or grammar school with final exam (matura) 3 = Vocational programs based on Maturity examination 4 = Accredited post secondary vocational programs 5 = College, or university BA level 6 = University, or university MA level / Beyond university or university MA level (e.g. PhD, University post-graduate programme) 7 = I don't know
Indiana, US	SQIS-07	D	Nationally defined options: 1 = Junior high/middle school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in a vocational/technical program 5 = 2-year or 4-year college or university degree (i.e., Associate's or Bachelor's degree) 6 = Beyond a bachelor's degree 7 = I don't know
Indonesia	SQSS-07	D	Nationally defined options: 1 = Lower secondary school 2 = Senior high school 3 = Diploma 1 / Diploma 2 4 = Diploma 3 / Diploma 4 5 = Bachelor degree 6 = Master degree or higher 7 = I don't know
Iran, Islamic Rep. of	SQIS-07	D	Nationally defined options: 1 = Lower secondary education 2 = High school education and obtain certificate 3 = Pre college education 4 = Two years college 5 = First degree 6 = Beyond first degree 7 = I don't know
Israel	SQIS-07	D	Nationally defined options: 1 = Middle school 2 = High school 3 = Preparatory school (a year of academic preparation) 4 = Post-secondary trade school (education in a non-academic faculty) 5 = First degree academic studies (with B.A., B.Ed., or B.Sc.) 6 = Academic studies after first degree (second degree or doctorate) 7 = I don't know
Italy	SQIS-07	D	Nationally defined options: 1 = Lower secondary education diploma 2 = Upper secondary education diploma 3 = 2nd level regional vocational training diploma 4 = Academy of art, Academy of dramatic art, Design Institute, Conservatoire diploma 5 = University degree 6 = Post-university degree (e.g., PhD, post-graduate school, master) 7 = I don't know

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Japan	SQIS-07	D	Nationally defined options: 1 = Lower-secondary school 2 = Upper-secondary school 3 = Junior college 4 = Specific college (e.g., the meteorological college, National Defence Academy) 5 = University or college 6 = Graduate school 7 = I don't know
Jordan	SQIS-07	D	Nationally defined options: 1 = Basic stage education 2 = Secondary stage education 3 = Community college (2 years study) 4 = Community college (3 years study) 5 = First university degree 6 = Higher than the first university degree (postgraduate degree) 7 = I don't know
Kazakhstan	SQSS-07	D	National options recoded for international comparability: 1 = Basic general education (Grades 1-9) 2 = Secondary education (11 years) or first-level vocational education after the basic education 3 = Second-level vocational education after secondary school / Secondary vocational education (e.g., college) 4 = Option not administered or data not available 5 = Higher education (e.g., bachelor or professional degree) 6 = Second higher education, to get academic master or doctor degree (PhD) 7 = I don't know
Korea, Rep. of	SQIS-07	D	National options recoded for international comparability: 1 = Middle school 2 = High school 3 = Option not administered or data not available 4 = College of 2 or 3 years 5 = University of 4 years 6 = Graduate school 7 = I don't know
Lebanon	SQSS-07	D	National options recoded for international comparability: 1 = Option not administered or data not available 2 = Secondary school level 3 = Professional or technical training program after the secondary school level 4 = Option not administered or data not available 5 = University studies 6 = Masters or equivalent / PHD 7 = I don't know
Lithuania	SQSS-07	D	Nationally defined options: 1 = Basic school 2 = Secondary education (general secondary or vocational secondary school) 3 = Post-secondary non-tertiary education (1-2 years) 4 = Higher non-university education (college) 5 = Bachelor's degree 6 = Higher than Bachelor's degree 7 = I don't know
Macedonia, Rep. of	SQSS-07	D	National options recoded for international comparability: 1 = Option not administered or data not available 2 = Secondary education 3 = Post-secondary vocational education 4 = Option not administered or data not available 5 = University education 6 = Post-graduate university education 7 = I don't know

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Malaysia	SQIS-07	D	Nationally defined options: 1 = Lower secondary 2 = Upper secondary 3 = Post secondary 4 = Tertiary level - diploma 5 = Tertiary level - first degree 6 = Tertiary level - first degree, second degree or higher 7 = I don't know
Massachusetts, US	SQIS-07	D	Nationally defined options: 1 = Junior high/middle school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in a vocational/technical program 5 = 2-year or 4-year college or university degree (i.e., Associate's or Bachelor's degree) 6 = Beyond a bachelor's degree 7 = I don't know
Minnesota, US	SQIS-07	D	Nationally defined options: 1 = Junior high/middle school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in a vocational/technical program 5 = 2-year or 4-year college or university degree (i.e., Associate's or Bachelor's degree) 6 = Beyond a bachelor's degree 7 = I don't know
Morocco	SQSS-07	D	National options recoded for international comparability: 1 = Preparatory level (Middle School) 2 = Secondary level 3 = Option not administered or data not available 4 = Option not administered or data not available 5 = Bachelor or equivalent 6 = Master or above / Doctorate 7 = I don't know
New Zealand	SQIS-07	D	National options recoded for international comparability: 1 = Up to the end of Year 10 / Level 1 of NCEA 2 = At least Level 2 of NCEA 3 = Trade certificate or national certificate course at polytechnic 4 = National diploma course at a tertiary institution (e.g., counselling, business studies, fashion design) 5 = Bachelor's degree 6 = Bachelor's Honours degree, Post-graduate diploma, Master's or PhD 7 = I don't know
North Carolina, US	SQIS-07	D	Nationally defined options: 1 = Junior high/middle school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in a vocational/technical program 5 = 2-year or 4-year college or university degree (i.e., Associate's or Bachelor's degree) 6 = Beyond a bachelor's degree 7 = I don't know
Norway	SQIS-07	D	Nationally defined options: 1 = Elementary school 2 = Upper secondary school 3 = Post-upper secondary school, but not university or college 4 = University or college (less than 3 years) 5 = University or college (3 years or more) 6 = PhD 7 = I don't know

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Oman	SQIS-07	D	National options recoded for international comparability: 1 = Grade 10 2 = High school diploma 3 = Diploma 4 = Option not administered or data not available 5 = University, first degree 6 = Beyond the first degree (Master and above) 7 = I don't know
Ontario, Canada	SQIS-07	D	National options recoded for international comparability: 1 = Elementary school 2 = High school 3 = College or CÉGEP 4 = Business, trade or vocational school 5 = University - Bachelor's degree 6 = University - Master's or PhD or equivalent 7 = I don't know
Palestinian Nat'l Auth.	SQIS-07	D	National options recoded for international comparability: 1 = 10th grade 2 = Secondary education 3 = Diploma 4 = Option not administered or data not available 5 = Bachelor's degree 6 = More than Bachelor's degree / Beyond Bachelor's or Master's Degree 7 = I don't know
Qatar	SQIS-07	D	National options recoded for international comparability: 1 = Preparatory level 2 = Secondary level 3 = Diploma (e.g., post secondary but before university) 4 = Option not administered or data not available 5 = University level 6 = Beyond university 7 = I don't know
Quebec, Canada	SQIS-07	D	National options recoded for international comparability: 1 = Elementary school 2 = High school 3 = College or CÉGEP 4 = Business, trade or vocational school 5 = University - Bachelor's degree 6 = University - Master's or PhD or equivalent 7 = I don't know
Romania	SQSS-07	D	Nationally defined options: 1 = Lower secondary education 2 = Upper secondary education 3 = Post high school 4 = Higher education-short duration 5 = Higher education-long duration 6 = Post-university studies 7 = I don't know
Russian Federation	SQSS-07	D	National options recoded for international comparability: 1 = Basic general education (9 grades) 2 = Secondary general education (11 grades) 3 = Initial vocational education (for example, professional school) / Secondary vocational education (for example, technical college, college) 4 = Option not administered or data not available 5 = Higher education (university, institute) 6 = Second university degree, candidate or doctor of sciences 7 = I don't know

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Saudi Arabia	SQIS-07	D	National options recoded for international comparability: 1 = Intermediate level education 2 = Secondary level education 3 = Option not administered or data not available 4 = Option not administered or data not available 5 = Bachelor degree 6 = Higher than Bachelor degree (e.g., Master, Doctorate) 7 = I don't know
Singapore	SQIS-07	D	Nationally defined options: 1 = Lower Secondary 2 = Upper Secondary 3 = Post-secondary Non-tertiary (e.g., JC, CI, ITE) 4 = Polytechnic 5 = University First Degree 6 = Beyond University First Degree (e.g., Master's, PhD) 7 = I don't know
Slovenia	SQSS-07	D	Nationally defined options: 1 = Finish elementary school and then get a job 2 = Finish secondary school and then get a job 3 = Finish vocational training after secondary school and then get a job 4 = After the final exam of secondary school, finish the first stage of university studies (2-3 years) and then get a job 5 = After the Matura exam of secondary school, finish the first and second stage of university studies (5 years) and then get a job 6 = After the Matura exam of secondary school, finish the first and second stage of university studies (5 years) and then finish PhD 7 = I don't know
South Africa	SQIS-07	D	Nationally defined options: 1 = Grade 9 (Standard 7) 2 = Grade 12 (Matric) 3 = Post-matric certificate 4 = Diploma 5 = First degree 6 = An honours degree or higher 7 = I don't know
Sweden	SQSS-07	D	Nationally defined options: 1 = 9 years of elementary school 2 = Secondary school 3 = Tertiary education, not university or college 4 = Higher education up to 2 years (e.g., professional college degree) 5 = University or college degree 3-5 years (bachelor or master degree) 6 = Postgraduate (licentiate or PhD degree) 7 = I don't know
Syrian Arab Republic	SQSS-07	D	National options recoded for international comparability: 1 = Second stage basic education, second level 2 = Secondary education 3 = Intermediate institute 4 = Option not administered or data not available 5 = University (4-5 years) 6 = Master degree or higher 7 = I don't know
Thailand	SQIS-07	D	National options recoded for international comparability: 1 = Lower secondary school 2 = Upper secondary school 3 = Diploma or high vocational certificate 4 = Option not administered or data not available 5 = Bachelor's degree (4 years) / Bachelor's degree (5 years or more) 6 = Beyond bachelor's degree 7 = I don't know

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Tunisia	SQIS-07	D	Nationally defined options: 1 = Preparatory education 2 = Secondary school education 3 = Professional training after secondary education (baccalaureate) 4 = 1st cycle of university education 5 = 2nd cycle of university education 6 = 3rd cycle of university education or higher 7 = I don't know
Turkey	SQIS-07	D	National options recoded for international comparability: 1 = Primary school 2 = Secondary education 3 = Option not administered or data not available 4 = First stage of tertiary education (2 or 3 years) 5 = Tertiary education, first degree (BA) 6 = Tertiary education, second degree (MS/MA, PhD) 7 = I don't know
Ukraine	SQSS-07	D	National options recoded for international comparability: 1 = General secondary education (9 grades) 2 = General secondary education (11 grades) 3 = Vocational education (Technical Vocational school) / Technical school or college 4 = Option not administered or data not available 5 = Higher education 6 = Second higher education or PhD 7 = I don't know
United Arab Emirates	SQIS-07	D	Nationally defined options: 1 = Some secondary school 2 = Secondary school 3 = Training Certificate, Apprenticeship or Traineeship 4 = College diploma 5 = Bachelor's degree 6 = Beyond Bachelor's degree (e.g., Master of Arts, PhD) 7 = I don't know
United States	SQIS-07	D	Nationally defined options: 1 = Junior high/middle school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in a vocational/technical program 5 = 2-year or 4-year college or university degree (i.e., Associate's or Bachelor's degree) 6 = Beyond a bachelor's degree 7 = I don't know

SQIS-12A-C / SQSS-12A-C

Question:

What do you think about your school? Tell how much you agree with these statements.

- A: I like being in school
- B: I feel safe when I am at school
- C: I feel like I belong at this school
- 1 = Agree a lot
- 2 = Agree a little
- 3 = Disagree a little
- 4 = Disagree a lot

Variable Name(s): BSBG12A, BSBG12B, BSBG12C

Country	Item ID	Code	Documentation
Ukraine	SQSS-12C	D	I am glad that I am studying exactly in this school

SQIS-13A-F / SQSS-13A-F**Question:**

During this year, how often have any of the following things happened to you at school?

A: I was made fun of or called names

B: I was left out of games or activities by other students

C: Someone spread lies about me

D: Something was stolen from me

E: I was hit or hurt by other student(s)(e.g., shoving, hitting, kicking)

F: I was made to do things I didn't want to do by other students

1 = At least once a week

2 = Once or twice a month

3 = A few times a year

4 = Never

Variable Name(s): BSBG13A, BSBG13B, BSBG13C, BSBG13D, BSBG13E, BSBG13F

Country	Item ID	Code	Documentation
Israel	SQIS-13A-F	X	Question not administered or data not available

SQIS-16A-N / SQSS-16A-N**Question:**

How much do you agree with these statements about mathematics?

A: I usually do well in mathematics

B: Mathematics is more difficult for me than for many of my classmates

C: Mathematics is not one of my strengths

D: I learn things quickly in mathematics

E: Mathematics makes me confused and nervous

F: I am good at working out difficult mathematics problems

G: My teacher thinks I can do well in mathematics <programs/classes/ lessons> with difficult materials

H: My teacher tells me I am good at mathematics

I: Mathematics is harder for me than any other subject

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

K: I need mathematics to learn other school subjects

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

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

N: I would like a job that involves using mathematics

1 = Agree a lot

2 = Agree a little

3 = Disagree a little

4 = Disagree a lot

Variable Name(s): BSBM16A, BSBM16B, BSBM16C, BSBM16D, BSBM16E, BSBM16F, BSBM16G, BSBM16H, BSBM16I, BSBM16J, BSBM16K, BSBM16L, BSBM16M, BSBM16N

Country	Item ID	Code	Documentation
Alabama, US	SQIS-16L	D	College or university
Alberta, Canada	SQIS-16L	D	Post-secondary institution
Armenia	SQSS-16L	D	Higher institution
California, US	SQIS-16L	D	College or university
Chinese Taipei	SQIS-16G	D	My teacher thinks I can do well in classes for students gifted in mathematics
Chinese Taipei	SQIS-16L	D	School
Colorado, US	SQIS-16L	D	College or university
Connecticut, US	SQIS-16L	D	College or university
England	SQIS-16L	D	College or university
Florida, US	SQIS-16L	D	College or university
Georgia	SQSS-16L	D	Higher Education Institution
Ghana	SQIS-16L	D	University / college
Indiana, US	SQIS-16L	D	College or university
Italy	SQIS-16L	D	I need to do well in mathematics to get into the upper secondary school of my choice
Kazakhstan	SQSS-16G	D	My teacher thinks I can do well in mathematics with difficult materials
Kazakhstan	SQSS-16L	D	School of higher education

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Massachusetts, US	SQIS-16L	D	College or university
Minnesota, US	SQIS-16L	D	College or university
New Zealand	SQIS-16L	D	University, polytechnic, or other tertiary education institution
North Carolina, US	SQIS-16L	D	College or university
Norway	SQIS-16L	D	I need to do well in mathematics to get the education of my choice
Ontario, Canada	SQIS-16L	D	Post-secondary institution
Quebec, Canada	SQIS-16L	D	Post-secondary institution
Russian Federation	SQSS-16L	D	Higher education establishment
Singapore	SQIS-16G	D	My teacher thinks I can do well in mathematics lessons with difficult topics / problems
Slovenia	SQSS-16L	D	Secondary school
Sweden	SQSS-16L	D	I need to do well in mathematics to get the education of my choice
Ukraine	SQSS-16L	D	Institution of higher education
United States	SQIS-16L	D	College or university

SQIS-19A-N / -

Question:

How much do you agree with these statements about science?

A: I usually do well in science

B: Science is more difficult for me than for many of my classmates

C: Science is not one of my strengths

D: I learn things quickly in science

E: Science makes me confused and nervous

F: I am good at working out difficult science problems

G: My teacher thinks I can do well in science <programs/classes/ lessons> with difficult materials

H: My teacher tells me I am good at science

I: Science is harder for me than any other subject

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

K: I need science to learn other school subjects

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

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

N: I would like a job that involves using science

1 = Agree a lot

2 = Agree a little

3 = Disagree a little

4 = Disagree a lot

Variable Name(s): BSBS19A, BSBS19B, BSBS19C, BSBS19D, BSBS19E, BSBS19F, BSBS19G, BSBS19H, BSBS19I, BSBS19J, BSBS19K, BSBS19L, BSBS19M, BSBS19N

Country	Item ID	Code	Documentation
Alabama, US	SQIS-19L	D	College or university
Alberta, Canada	SQIS-19L	D	Post-secondary institution
California, US	SQIS-19L	D	College or university
Chinese Taipei	SQIS-19G	D	My teacher thinks I can do well in classes for students gifted in science
Chinese Taipei	SQIS-19L	D	School
Colorado, US	SQIS-19L	D	College or university
Connecticut, US	SQIS-19L	D	College or university
England	SQIS-19L	D	College or university
Florida, US	SQIS-19L	D	College or university
Ghana	SQIS-19L	D	University / college
Honduras	SQIS-19J-N	X	Option not administered or data not available
Indiana, US	SQIS-19L	D	College or university
Italy	SQIS-19L	D	I need to do well in science to get into the upper secondary school of my choice
Massachusetts, US	SQIS-19L	D	College or university
Minnesota, US	SQIS-19L	D	College or university
North Carolina, US	SQIS-19L	D	College or university

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Norway	SQIS-19L	D	I need to do well in science to get the education of my choice
Ontario, Canada	SQIS-19L	D	Post-secondary institution
Quebec, Canada	SQIS-19L	D	Post-secondary institution
Singapore	SQIS-19G	D	My teacher thinks I can do well in science lessons with difficult topics/problems
United States	SQIS-19L	D	College or university

SQIS-20A-B / -

Question:

A: How often does your teacher give you homework in mathematics?

- 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

B: When your teacher gives you mathematics homework, about how many minutes do you usually spend on your homework?

- 1 = My teacher never gives me homework in mathematics
- 2 = 1–15 minutes
- 3 = 16–30 minutes
- 4 = 31–60 minutes
- 5 = 61–90 minutes
- 6 = More than 90 minutes

Variable Name(s): BSBM20A, BSBM20B

Country	Item ID	Code	Documentation
Honduras	SQIS-20A-B	X	Question not administered or data not available

SQIS-21A-B / -

Question:

A: How often does your teacher give you homework in science?

- 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

B: When your teacher gives you science homework, about how many minutes do you usually spend on your homework?

- 1 = My teacher never gives me homework in science
- 2 = 1–15 minutes
- 3 = 16–30 minutes
- 4 = 31–60 minutes
- 5 = 61–90 minutes
- 6 = More than 90 minutes

Variable Name(s): BSBS21A, BSBS21B

Country	Item ID	Code	Documentation
Honduras	SQIS-21A-B	X	Question not administered or data not available

- / SQSS-17**Question:**

Are you studying biology in school this year?

1 = Yes

2 = No

Variable Name(s): BSBB17

Country	Item ID	Code	Documentation
Lebanon	SQSS-17	D	Stem of the question changed: Are you studying Life and Earth Sciences (L.E.S) in school this year?

- / SQSS-18A-G**Question:**

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

A: I enjoy learning biology

B: I wish I did not have to study biology

C: I read about biology in my spare time

D: Biology is boring

E: I learn many interesting things in biology

F: I like biology

G: It is important to do well in biology

1 = Agree a lot

2 = Agree a little

3 = Disagree a little

4 = Disagree a lot

Variable Name(s): BSBB18A, BSBB18B, BSBB18C, BSBB18D, BSBB18E, BSBB18F, BSBB18G

Country	Item ID	Code	Documentation
Lebanon	SQSS-18A-G	D	Stem of the question changed: How much do you agree with these statements about learning L.E.S? Biology replaced with Life and Earth Sciences (L.E.S) for all the options.

- / SQSS-19A-E**Question:**

How much do you agree with these statements about your biology lessons?

A: I know what my teacher expects me to do

B: I think of things not related to the lesson

C: My teacher is easy to understand

D: I am interested in what my teacher says

E: My teacher gives me interesting things to do

1 = Agree a lot

2 = Agree a little

3 = Disagree a little

4 = Disagree a lot

Variable Name(s): BSBB19A, BSBB19B, BSBB19C, BSBB19D, BSBB19E

Country	Item ID	Code	Documentation
Lebanon	SQSS-19A-E	D	Stem of the question changed: How much do you agree with these statements about your life and Earth Sciences lessons? Biology replaced with Life and Earth Sciences (L.E.S) for all the options.

- / SQSS-20A-N**Question:**

How much do you agree with these statements about biology?

A: I usually do well in biology

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

C: Biology is not one of my strengths

D: I learn things quickly in biology

E: Biology makes me confused and nervous

F: I am good at working out difficult biology problems

G: My teacher thinks I can do well in biology <programs/classes/ lessons> with difficult materials

H: My teacher tells me I am good at biology

I: Biology is harder for me than any other subject

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

K: I need biology to learn other school subjects

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

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

N: I would like a job that involves using biology

1 = Agree a lot

2 = Agree a little

3 = Disagree a little

4 = Disagree a lot

Variable Name(s): BSBB20A, BSBB20B, BSBB20C, BSBB20D, BSBB20E, BSBB20F, BSBB20G, BSBB20H, BSBB20I, BSBB20J, BSBB20K, BSBB20L, BSBB20M, BSBB20N

Country	Item ID	Code	Documentation
Georgia	SQSS-20L	D	Higher Education Institution
Kazakhstan	SQSS-20G	D	My teacher thinks I can do well in biology with difficult materials
Kazakhstan	SQSS-20L	D	School of higher education
Lebanon	SQSS-20A-N	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 (L.E.S) for all the options.
Russian Federation	SQSS-20L	D	Higher education establishment
Slovenia	SQSS-20L	D	Secondary school
Sweden	SQSS-20L	D	I need to do well in biology to get the education of my choice
Ukraine	SQSS-20L	D	Institution of higher education

- / SQSS-21**Question:**

Are you studying earth science in school this year?

1 = Yes

2 = No

Variable Name(s): BSBE21

Country	Item ID	Code	Documentation
Lebanon	SQSS-21	X	Question not administered or data not available

- / SQSS-22A-G**Question:**

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

- A: I enjoy learning earth science
 - B: I wish I did not have to study earth science
 - C: I read about earth science in my spare time
 - D: Earth science is boring
 - E: I learn many interesting things in earth science
 - F: I like earth science
 - G: It is important to do well in earth science
- 1 = Agree a lot
2 = Agree a little
3 = Disagree a little
4 = Disagree a lot

Variable Name(s): BSBE22A, BSBE22B, BSBE22C, BSBE22D, BSBE22E, BSBE22F, BSBE22G

Country	Item ID	Code	Documentation
Lebanon	SQSS-22A-G	X	Question not administered or data not available

- / SQSS-23A-E**Question:**

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

- A: I know what my teacher expects me to do
 - B: I think of things not related to the lesson
 - C: My teacher is easy to understand
 - D: I am interested in what my teacher says
 - E: My teacher gives me interesting things to do
- 1 = Agree a lot
2 = Agree a little
3 = Disagree a little
4 = Disagree a lot

Variable Name(s): BSBE23A, BSBE23B, BSBE23C, BSBE23D, BSBE23E

Country	Item ID	Code	Documentation
Lebanon	SQSS-23A-E	X	Question not administered or data not available

- / SQSS-24A-N**Question:**

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

A: I usually do well in earth science

B: Earth science is more difficult for me than for many of my classmates

C: Earth science is not one of my strengths

D: I learn things quickly in earth science

E: Earth science makes me confused and nervous

F: I am good at working out difficult earth science problems

G: My teacher thinks I can do well in earth science <programs/classes/ lessons> with difficult materials

H: My teacher tells me I am good at earth science

I: Earth science is harder for me than any other subject

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

K: I need earth science to learn other school subjects

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

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

N: I would like a job that involves using earth science

1 = Agree a lot

2 = Agree a little

3 = Disagree a little

4 = Disagree a lot

Variable Name(s): BSBE24A, BSBE24B, BSBE24C, BSBE24D, BSBE24E, BSBE24F, BSBE24G, BSBE24H, BSBE24I, BSBE24J, BSBE24K, BSBE24L, BSBE24M, BSBE24N

Country	Item ID	Code	Documentation
Georgia	SQSS-24L	D	Higher Education Institution
Kazakhstan	SQSS-24G	D	My teacher thinks I can do well in geography with difficult materials
Kazakhstan	SQSS-24L	D	School of higher education
Lebanon	SQSS-24A-N	X	Question not administered or data not available
Romania	SQSS-24G	D	Lessons
Russian Federation	SQSS-24L	D	Higher education establishment
Slovenia	SQSS-24L	D	Secondary school
Sweden	SQSS-24L	D	I need to do well in geography to get the education of my choice
Ukraine	SQSS-24L	D	Institution of higher education

- / SQSS-28A-N**Question:**

How much do you agree with these statements about chemistry?

A: I usually do well in chemistry

B: Chemistry is more difficult for me than for many of my classmates

C: Chemistry is not one of my strengths

D: I learn things quickly in chemistry

E: Chemistry makes me confused and nervous

F: I am good at working out difficult chemistry problems

G: My teacher thinks I can do well in chemistry <programs/classes/lessons> with difficult materials

H: My teacher tells me I am good at chemistry

I: Chemistry is harder for me than any other subject

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

K: I need chemistry to learn other school subjects

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

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

N: I would like a job that involves using chemistry

1 = Agree a lot

2 = Agree a little

3 = Disagree a little

4 = Disagree a lot

Variable Name(s): BSBC28A, BSBC28B, BSBC28C, BSBC28D, BSBC28E, BSBC28F, BSBC28G, BSBC28H, BSBC28I, BSBC28J, BSBC28K, BSBC28L, BSBC28M, BSBC28N

Country	Item ID	Code	Documentation
Armenia	SQSS-28L	D	Higher institution
Georgia	SQSS-28L	D	Higher Education Institution
Kazakhstan	SQSS-28G	D	My teacher thinks I can do well in chemistry with difficult materials
Kazakhstan	SQSS-28L	D	School of higher education
Russian Federation	SQSS-28L	D	Higher education establishment
Slovenia	SQSS-28L	D	Secondary school
Sweden	SQSS-28L	D	I need to do well in chemistry to get the education of my choice
Ukraine	SQSS-28L	D	Institution of higher education

- / SQSS-32A-N**Question:**

How much do you agree with these statements about physics?

A: I usually do well in physics

B: Physics is more difficult for me than for many of my classmates

C: Physics is not one of my strengths

D: I learn things quickly in physics

E: Physics makes me confused and nervous

F: I am good at working out difficult physics problems

G: My teacher thinks I can do well in physics <programs/classes/lessons> with difficult materials

H: My teacher tells me I am good at physics

I: Physics is harder for me than any other subject

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

K: I need physics to learn other school subjects

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

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

N: I would like a job that involves using physics

1 = Agree a lot

2 = Agree a little

3 = Disagree a little

4 = Disagree a lot

Variable Name(s): BSBP32A, BSBP32B, BSBP32C, BSBP32D, BSBP32E, BSBP32F, BSBP32G, BSBP32H, BSBP32I, BSBP32J, BSBP32K, BSBP32L, BSBP32M, BSBP32N

Country	Item ID	Code	Documentation
Georgia	SQSS-32L	D	Higher Education Institution
Kazakhstan	SQSS-32G	D	My teacher thinks I can do well in physics with difficult materials
Kazakhstan	SQSS-32L	D	School of higher education
Russian Federation	SQSS-32L	D	Higher education establishment
Slovenia	SQSS-32L	D	Secondary school
Sweden	SQSS-32L	D	I need to do well in physics to get the education of my choice
Ukraine	SQSS-32L	D	Institution of higher education

- / SQSS-33AA-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): BSBM33AA, BSBB33AB, BSBE33AC, BSBC33AD, BSBP33AE

Country	Item ID	Code	Documentation
Kazakhstan	SQSS-33AC	D	Geography
Lebanon	SQSS-33AB	D	Life and Earth Sciences
Lebanon	SQSS-33AC	X	Option not administered or data not available
Sweden	SQSS-33AC	D	Geography

- / SQSS-33BA-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 = My teacher never gives me homework in...

2 = 1-15 minutes

3 = 16-30 minutes

4 = 31-60 minutes

5 = 61-90 minutes

6 = More than 90 minutes

Variable Name(s): BSBM33BA, BSBB33BB, BSBE33BC, BSBC33BD, BSBP33BE

Country	Item ID	Code	Documentation
Georgia	SQSS-33BC	D	Earth Science (Physical Geography)
Kazakhstan	SQSS-33BC	D	Geography
Lebanon	SQSS-33BB	D	Life and Earth Sciences
Lebanon	SQSS-33BC	X	Option not administered or data not available
Sweden	SQSS-33BC	D	Geography

ITLANG**Question:**

LANGUAGE OF TEST

Variable Name(s): ITLANG

Country	Item ID	Code	Documentation
Abu Dhabi, UAE	ITLANG	D	1 = Arabic 2 = English
Alabama, US	ITLANG	D	1 = English
Alberta, Canada	ITLANG	D	1 = English 2 = French
Armenia	ITLANG	D	1 = Armenian
Australia	ITLANG	D	1 = English
Bahrain	ITLANG	D	1 = Arabic 2 = English
Botswana	ITLANG	D	1 = English
California, US	ITLANG	D	1 = English
Chile	ITLANG	D	1 = Spanish
Chinese Taipei	ITLANG	D	1 = Mandarin
Colorado, US	ITLANG	D	1 = English
Connecticut, US	ITLANG	D	1 = English
Dubai, UAE	ITLANG	D	1 = Arabic 2 = English
England	ITLANG	D	1 = English
Finland	ITLANG	D	1 = Finnish 2 = Swedish
Florida, US	ITLANG	D	1 = English
Georgia	ITLANG	D	1 = Georgian
Ghana	ITLANG	D	1 = English
Honduras	ITLANG	D	1 = Spanish
Hong Kong SAR	ITLANG	D	1 = Chinese and English
Hungary	ITLANG	D	1 = Hungarian
Indiana, US	ITLANG	D	1 = English

SECTION 4: EIGHTH GRADE – STUDENT QUESTIONNAIRE

Indonesia	ITLANG	D	1 = Indonesian
Iran, Islamic Rep. of	ITLANG	D	1 = Farsi
Israel	ITLANG	D	1 = Hebrew 2 = Arabic
Italy	ITLANG	D	1 = Italian 2 = German
Japan	ITLANG	D	1 = Japanese
Jordan	ITLANG	D	1 = Arabic
Kazakhstan	ITLANG	D	1 = Kazakh 2 = Russian
Korea, Rep. of	ITLANG	D	1 = Korean
Lebanon	ITLANG	D	1 = French 2 = English
Lithuania	ITLANG	D	1 = Lithuanian
Macedonia, Rep. of	ITLANG	D	1 = Macedonian 2 = Albanian
Malaysia	ITLANG	D	1 = Malay and English
Massachusetts, US	ITLANG	D	1 = English
Minnesota, US	ITLANG	D	1 = English
Morocco	ITLANG	D	1 = Arabic
New Zealand	ITLANG	D	1 = English
North Carolina, US	ITLANG	D	1 = English
Norway	ITLANG	D	1 = Norwegian, Bokmal 2 = Norwegian, Nynorsk
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

SECTION 4: EIGHTH GRADE - STUDENT QUESTIONNAIRE

Saudi Arabia	ITLANG	D	1 = Arabic 2 = English
Singapore	ITLANG	D	1 = English
Slovenia	ITLANG	D	1 = Slovene
South Africa	ITLANG	D	1 = English 2 = Afrikaans
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 Arab Emirates	ITLANG	D	1 = Arabic 2 = English
United States	ITLANG	D	1 = English

Section 5

Eighth Grade – Mathematics Teacher Questionnaire

TQG-04**Question:**

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

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

Variable Name(s): BTBG04

Country	Item ID	Code	Documentation
Abu Dhabi, UAE	TQG-04	D	Nationally defined options: 1 = Did not complete secondary school 2 = Secondary school 3 = Teacher Training Certificate, Apprenticeship or Traineeship 4 = A college diploma 5 = Bachelor's degree 6 = Master's degree or higher
Alabama, US	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in vocational/technical program 5 = Academic Associate's degree (AA) 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)
Alberta, Canada	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = College or CÉGEP 4 = Business, trade or vocational school 5 = University - Bachelor's degree 6 = University - Master's or PhD or equivalent
Armenia	TQG-04	D	National options recoded for international comparability: 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 6 = Higher education / Ph.D. or higher
Australia	TQG-04	D	National options recoded for international comparability: 1 = Did not finish secondary school 2 = Secondary school 3 = TAFE training certificate, apprenticeship or traineeship 4 = TAFE or College Diploma (e.g., Diploma in Information Technology, Diploma in Veterinary Nursing) 5 = Undergraduate degree 6 = Postgraduate or Graduate Diploma (e.g., Diploma of Education) / Master's degree or higher

SECTION 5: EIGHTH GRADE – MATHEMATICS TEACHER QUESTIONNAIRE

Bahrain	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary education 2 = Secondary education 3 = Diploma 4 = Option not administered or data not available 5 = Bachelor's degree 6 = Post-graduate Diploma / Master's or higher
Botswana	TQG-04	D	Nationally defined options: 1 = Did not complete Senior Secondary 2 = Senior Secondary 3 = Vocational / Technical Certificate 4 = Diploma 5 = First degree 6 = Masters degree or higher
California, US	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in vocational/technical program 5 = Academic Associate's degree (AA) 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)
Chile	TQG-04	D	Nationally defined options: 1 = Did not finish secondary school 2 = Secondary school 3 = Post secondary studies at a center of technical education 4 = Post secondary studies at a professional institute 5 = Post secondary studies at a university (licentiate or equivalent) 6 = Post graduate studies (master or doctorate)
Chinese Taipei	TQG-04	D	Nationally defined options: 1 = Did not complete the education of senior high school or vocational high school 2 = Education of senior high school or vocational high school 3 = Education of five-year or two-year junior college 4 = Two-year or four-year undergraduate program of university or college of science and technology 5 = Comprehensive university or college 6 = Master or higher
Colorado, US	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in vocational/technical program 5 = Academic Associate's degree (AA) 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)
Connecticut, US	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in vocational/technical program 5 = Academic Associate's degree (AA) 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)

SECTION 5: EIGHTH GRADE – MATHEMATICS TEACHER QUESTIONNAIRE

Dubai, UAE	TQG-04	D	Nationally defined options: 1 = Did not complete secondary school 2 = Secondary school 3 = Teacher Training Certificate, Apprenticeship or Traineeship 4 = A college diploma 5 = Bachelor's degree 6 = Master's degree or higher
England	TQG-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
Finland	TQG-04	D	Nationally defined options: 1 = No upper secondary degree 2 = Upper secondary degree, academic or vocational 3 = Post-secondary vocational degree 4 = Higher vocational degree 5 = Lower degree at the university or polytechnic, 3 years 6 = Higher degree at the university or polytechnic, 5 years, or post-graduate degree at the university
Florida, US	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in vocational/technical program 5 = Academic Associate's degree (AA) 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)
Georgia	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary school 2 = Secondary school (11 years) / Secondary vocational school (after 9th grade) 3 = Post-secondary vocational school (after 11th grade) 4 = High vocational school 5 = Bachelor's degree (4 years) 6 = Master's or PhD (also includes former 5 years of university education)
Ghana	TQG-04	D	Nationally defined options: 1 = Did not complete senior high school 2 = Senior high school 3 = A post secondary course or teacher training college 4 = Higher national diploma 5 = University / first degree 6 = Masters / second degree or higher
Honduras	TQG-04	D	Nationally defined options: 1 = Did not complete high school 2 = High school 3 = Non-university technical education 4 = Technical university or higher education 5 = Undergraduate college education (BA, Engineering, etc.) 6 = Graduate education (Master or higher)
Hong Kong SAR	TQG-04	D	Nationally defined options: 1 = Did not complete secondary education 2 = Secondary education (F.5, F.6, or F.7) 3 = Vocational training after secondary education 4 = Certificate in Education (awarded by the Institute of Education or the former Colleges of Education), a diploma, or an associate degree 5 = Bachelor's degree 6 = Master's degree or above

SECTION 5: EIGHTH GRADE – MATHEMATICS TEACHER QUESTIONNAIRE

Hungary	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary school 2 = Secondary school 3 = Vocational programs (usually two years) based on Maturity examination 4 = Accredited post secondary vocational programs 5 = College, or university BA level 6 = University, or university MA level / Higher than university or university MA level (e.g., PhD, University post-graduate programme)
Indiana, US	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in vocational/technical program 5 = Academic Associate's degree (AA) 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)
Indonesia	TQG-04	D	Nationally defined options: 1 = Did not complete senior high school 2 = Senior high school 3 = Diploma 1 / Diploma 2 4 = Diploma 3 / Diploma 4 5 = Bachelor degree 6 = Master degree or higher
Iran, Islamic Rep. of	TQG-04	D	Nationally defined options: 1 = Lower than high school education 2 = High school education 3 = Pre-university college 4 = Two years degree in technical subjects or in theoretical subjects 5 = First degree 6 = Master degree or higher
Israel	TQG-04	D	Nationally defined options: 1 = Did not complete high school 2 = High school 3 = Preparatory studies (Academic Preparatory Year) 4 = Post-secondary trade school (teaching diploma without B.Ed) 5 = First-degree academic studies (with B.Ed) 6 = Second-degree academic studies or higher
Italy	TQG-04	D	National options recoded for international comparability: 1 = Option not administered or data not available 2 = Upper secondary education diploma 3 = 2nd level regional vocational training diploma 4 = Academy of art, Academy of dramatic art, Design Institute, Conservatoire diploma 5 = University degree 6 = Post-university degree (e.g., PhD, post-graduate school, master)
Japan	TQG-04	D	Nationally defined options: 1 = Did not complete the upper secondary school 2 = Upper secondary school 3 = Junior college 4 = Specific college (e.g., the meteorological college, National Defence Academy) 5 = University or college 6 = Graduate school or higher

SECTION 5: EIGHTH GRADE – MATHEMATICS TEACHER QUESTIONNAIRE

Jordan	TQG-04	D	Nationally defined options: 1 = Did not complete the final stage of secondary school education 2 = Final stage of secondary school education 3 = Community college diploma (2 years study) 4 = Community college diploma (3 years study) 5 = First university degree 6 = Second university degree or higher
Kazakhstan	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary education 2 = Secondary general education or first-level vocational education 3 = Second-level vocational education / Secondary level vocational education 4 = Option not administered or data not available 5 = Higher education (bachelor or professional degree) 6 = Second higher education, candidate / master or doctor (PhD)
Korea, Rep. of	TQG-04	D	National options recoded for international comparability: 1 = Did not complete the high school 2 = High school 3 = Option not administered or data not available 4 = College of 2 or 3 years 5 = University of 4 years 6 = Graduate school
Lebanon	TQG-04	D	National options recoded for international comparability: 1 = Option not administered or data not available 2 = Secondary + 1 or 2 years teaching training 3 = Secondary + 3 or 4 years teacher training 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	TQG-04	D	Nationally defined options: 1 = Did not complete secondary education 2 = Secondary education 3 = Post-secondary non-tertiary education (1-2 years) 4 = Higher non-university education (college) 5 = Higher education - Bachelor's degree or equivalent 6 = Higher education - Master's degree or higher
Macedonia, Rep. of	TQG-04	D	Nationally defined options: 1 = Did not complete secondary school 2 = Secondary school 3 = Post-secondary school 4 = Two years university 5 = University 6 = More than university
Malaysia	TQG-04	D	Nationally defined options: 1 = Did not complete upper secondary 2 = Upper secondary 3 = Post secondary 4 = Tertiary level - diploma 5 = Tertiary level - first degree 6 = Tertiary level - first degree, second degree or higher
Massachusetts, US	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in vocational/technical program 5 = Academic Associate's degree (AA) 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)

SECTION 5: EIGHTH GRADE – MATHEMATICS TEACHER QUESTIONNAIRE

Minnesota, US	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in vocational/technical program 5 = Academic Associate's degree (AA) 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	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary preparatory / Secondary preparatory level 2 = Secondary level education 3 = Option not administered or data not available 4 = Option not administered or data not available 5 = Bachelor's degree 6 = Master's degree / Doctorate
New Zealand	TQG-04	D	National options recoded for international comparability: 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 = National diploma (e.g., National Diploma in Science L5-6), or vocational diploma (e.g., Diploma of Teaching) 5 = Bachelor's degree 6 = Bachelor's Honours, Post-graduate diploma (e.g., Dip ORS), or Master's degree / PhD
North Carolina, US	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in vocational/technical program 5 = Academic Associate's degree (AA) 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)
Norway	TQG-04	D	Nationally defined options: 1 = Did not finish upper secondary school 2 = Upper secondary school 3 = Post-upper secondary education, but not university or college 4 = University or college (less than 3 years) 5 = University or college (3 years or more) 6 = PhD
Oman	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary school 2 = Secondary school 3 = Diploma 4 = Option not administered or data not available 5 = University, first degree 6 = Beyond the first degree (Master's degree or higher)
Ontario, Canada	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = College or CÉGEP 4 = Business, trade or vocational school 5 = University - Bachelor's degree 6 = University - Master's or PhD or equivalent

SECTION 5: EIGHTH GRADE – MATHEMATICS TEACHER QUESTIONNAIRE

Palestinian Nat'l Auth.	TQG-04	D	Nationally defined options: 1 = Did not finish secondary certificate 2 = Secondary certificate 3 = Diploma, 2 years 4 = Diploma, 3 years 5 = Bachelor's degree 6 = Master's degree or higher
Qatar	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary level education 2 = Secondary level education 3 = Diploma level education (post-secondary but before university) 4 = Option not administered or data not available 5 = University degree 6 = Post university degree or higher
Quebec, Canada	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = College or CÉGEP 4 = Business, trade or vocational school 5 = University - Bachelor's degree 6 = University - Master's or PhD or equivalent
Romania	TQG-04	D	Nationally defined options: 1 = Did not complete upper secondary education 2 = Upper secondary education 3 = Post high school education 4 = Higher education-short duration 5 = Higher education-long duration 6 = Post university studies
Russian Federation	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary education 2 = Secondary general education 3 = Initial vocational education / Secondary vocational education 4 = Option not administered or data not available 5 = Option not administered or data not available 6 = Higher education (bachelor or master degree, specialist) / Second university degree, candidate or doctor of sciences
Saudi Arabia	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary education 2 = Secondary education 3 = Diploma or higher diploma (e.g., teaching diploma) 4 = Option not administered or data not available 5 = Bachelor degree 6 = Master degree or doctorate
Singapore	TQG-04	D	Nationally defined options: 1 = Did not complete Upper Secondary 2 = Upper Secondary 3 = Post-secondary Non-tertiary (e.g., JC, CI, ITE) 4 = Polytechnic 5 = University First Degree 6 = University Second Degree or higher (e.g., Master's, PhD)
Slovenia	TQG-04	D	National options recoded for international comparability: 1 = Option not administered or data not available 2 = Secondary school 3 = Vocational training after secondary school 4 = University studies of 2 to 3 years 5 = University studies of 4 to 5 years 6 = Master degree or PhD

SECTION 5: EIGHTH GRADE – MATHEMATICS TEACHER QUESTIONNAIRE

South Africa	TQG-04	D	Nationally defined options: 1 = Did not complete Grade 12 2 = Grade 12 3 = Post-matric certificate 4 = Diploma 5 = First degree 6 = Honours degree or higher
Sweden	TQG-04	D	Nationally defined options: 1 = Did not complete secondary school 2 = Secondary school 3 = Tertiary education, not university or college 4 = Higher education up to 2 years (e.g., professional university or college degree) 5 = University or college degree 3-5 years (e.g., bachelor or master degree) 6 = Postgraduate education (licentiate or PhD degree)
Syrian Arab Republic	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary school 2 = Secondary school 3 = Intermediate institute 4 = Option not administered or data not available 5 = University (4-5 years) 6 = Master degree or higher
Thailand	TQG-04	D	National options recoded for international comparability: 1 = Did not complete upper secondary school or vocational certificate 2 = Upper secondary school or vocational certificate 3 = Diploma or high vocational certificate 4 = Option not administered or data not available 5 = Bachelor's degree (4 years) / Bachelor's degree (5 years or more) 6 = Master's degree or higher
Tunisia	TQG-04	D	Nationally defined options: 1 = Did not complete secondary school 2 = Secondary education 3 = Professional training after secondary education (baccalaureate) 4 = 1st cycle of university education 5 = 2nd cycle of university education 6 = 3rd cycle of university education or higher
Turkey	TQG-04	D	National options recoded for international comparability: 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 (BA) 6 = Tertiary education, second degree (MS/MA, PhD)
Ukraine	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary education 2 = Secondary education 3 = Vocational education (Technical vocational school) / Technical school or college 4 = Option not administered or data not available 5 = Higher education 6 = Second higher education or PhD
United Arab Emirates	TQG-04	D	Nationally defined options: 1 = Did not complete secondary school 2 = Secondary school 3 = Teacher Training Certificate, Apprenticeship or Traineeship 4 = A college diploma 5 = Bachelor's degree 6 = Master's degree or higher

SECTION 5: EIGHTH GRADE – MATHEMATICS TEACHER QUESTIONNAIRE

United States

TQG-04

D

National options recoded for international comparability:

1 = Did not complete high school

2 = High school

3 = Vocational/technical certificate after high school

4 = Associate's degree (AA) in vocational/technical program

5 = Academic Associate's degree (AA) 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)

TQG-05A-I**Question:**

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

A: Mathematics

B: Biology

C: Physics

D: Chemistry

E: <Earth Science>

F: Education–Mathematics

G: Education–Science

H: Education–General

I: Other

1 = Yes

2 = No

Variable Name(s): BTBG05A, BTBG05B, BTBG05C, BTBG05D, BTBG05E, BTBG05F, BTBG05G, BTBG05H, BTBG05I

Country	Item ID	Code	Documentation
Abu Dhabi, UAE	TQG-05E	D	Earth Science (e.g., Geography, Geology)
Alabama, US	TQG-05A-I	D	College or university
Botswana	TQG-05E	D	General Science
California, US	TQG-05A-I	D	College or university
Chile	TQG-05E	D	Geo-science / Geography
Colorado, US	TQG-05A-I	D	College or university
Connecticut, US	TQG-05A-I	D	College or university
Dubai, UAE	TQG-05E	D	Earth Science (e.g., Geography, Geology)
Florida, US	TQG-05A-I	D	College or university
Georgia	TQG-05E	D	Earth Science (Physical Geography)
Ghana	TQG-05E	D	Geography
Honduras	TQG-05A-I	D	College education
Hong Kong SAR	TQG-05E	D	Earth Science / Geography
Hungary	TQG-05A-I	D	Tertiary education
Hungary	TQG-05G	D	Education-Biology / Education-Physics / Education-Chemistry / Education-Earth Science
Indiana, US	TQG-05A-I	D	College or university
Indonesia	TQG-05E	D	Geography
Israel	TQG-05E	D	Earth and Space Science
Italy	TQG-05F-H	X	Option not administered or data not available
Kazakhstan	TQG-05A-I	D	Professional education

SECTION 5: EIGHTH GRADE – MATHEMATICS TEACHER QUESTIONNAIRE

Kazakhstan	TQG-05E	D	Geography
Korea, Rep. of	TQG-05A-I	D	University (or the graduate school)
Lebanon	TQG-05E	X	Option not administered or data not available
Lithuania	TQG-05A-I	D	Further post-secondary or higher education
Lithuania	TQG-05E	D	Geography
Macedonia, Rep. of	TQG-05A-I	D	Two years university or university
Macedonia, Rep. of	TQG-05E	D	Geography
Massachusetts, US	TQG-05A-I	D	College or university
Minnesota, US	TQG-05A-I	D	College or university
Morocco	TQG-05A-I	D	University studies
New Zealand	TQG-05B	D	Biology (including Botany, Zoology)
New Zealand	TQG-05E	D	Geology, Physical Geography, Earth Science
North Carolina, US	TQG-05A-I	D	College or university
Norway	TQG-05A-I	D	Stem of the question changed: In which subjects do you have 20 or more study points from a university or college? (20 credits = 60 study points = 1 year studying)
Romania	TQG-05E	D	Geography
Russian Federation	TQG-05E	D	Geography
Singapore	TQG-05E	D	Geography
Slovenia	TQG-05A-I	D	Studies
South Africa	TQG-05A-I	D	Tertiary
South Africa	TQG-05E	D	Earth or Environmental Science
Sweden	TQG-05E	D	Geography / Earth Science
Thailand	TQG-05A-I	D	Higher education
Tunisia	TQG-05A-I	D	University
Tunisia	TQG-05E	D	Biology and Earth Science
Turkey	TQG-05A-I	D	Higher education
Ukraine	TQG-05A-I	D	Higher or vocational education
Ukraine	TQG-05E	D	Geography
United Arab Emirates	TQG-05E	D	Earth Science (e.g., Geography, Geology)
United States	TQG-05A-I	D	College or university

TQG-15A-F**Question:**

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

- A: Students lacking prerequisite knowledge or skills
 - B: Students suffering from lack of basic nutrition
 - C: Students suffering from not enough sleep
 - D: Students with special needs (e.g., physical disabilities, mental or emotional/ psychological impairment)
 - E: Disruptive students
 - F: Uninterested students
- 1 = Not applicable
2 = Not at all
3 = Some
4 = A lot

Variable Name(s): BTBG15A, BTBG15B, BTBG15C, BTBG15D, BTBG15E, BTBG15F

Country	Item ID	Code	Documentation
Hungary	TQG-15A-F	D	Nationally defined categories: 1 = Does not occur in this class 2 = Not at all 3 = Some 4 = A lot

TQM-23AA-AE**Question:**

The following list includes the main topics addressed by the TIMSS mathematics test. Choose the response that best describes when the students in this class have been taught each topic. If a topic was in the curriculum before the <eighth grade>, please choose "Mostly taught before this year." 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: Computing, estimating, or approximating with whole numbers
 - B: Concepts of fractions and computing with fractions
 - C: Concepts of decimals and computing with decimals
 - D: Representing, comparing, ordering, and computing with integers
 - E: Problem solving involving percents and proportions
- 1 = Mostly taught before this year
2 = Mostly taught this year
3 = Not yet taught or just introduced

Variable Name(s): BTBM23AA, BTBM23AB, BTBM23AC, BTBM23AD, BTBM23AE

Country	Item ID	Code	Documentation
Kazakhstan	TQM-23AA-AE	X	Question not administered or data not available
Russian Federation	TQM-23AA-AE	X	Question not administered or data not available

TQM-23BA-BE**Question:**

The following list includes the main topics addressed by the TIMSS mathematics test. Choose the response that best describes when the students in this class have been taught each topic. If a topic was in the curriculum before the <eighth grade>, please choose “Mostly taught before this year.” 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: Simplifying and evaluating algebraic expressions

C: Simple linear equations and inequalities

D: Simultaneous (two variables) equations

E: Representation 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): BTBM23BA, BTBM23BB, BTBM23BC, BTBM23BD, BTBM23BE

Country	Item ID	Code	Documentation
Kazakhstan	TQM-23BA-BE	X	Question not administered or data not available
Russian Federation	TQM-23BA-BE	X	Question not administered or data not available

TQM-23CA-CF**Question:**

The following list includes the main topics addressed by the TIMSS mathematics test. Choose the response that best describes when the students in this class have been taught each topic. If a topic was in the curriculum before the <eighth grade>, please choose “Mostly taught before this year.” 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: 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 representations

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

E: Points on the Cartesian plane

F: 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): BTBM23CA, BTBM23CB, BTBM23CC, BTBM23CD, BTBM23CE, BTBM23CF

Country	Item ID	Code	Documentation
Kazakhstan	TQM-23CA-CF	X	Question not administered or data not available
Russian Federation	TQM-23CA-CF	X	Question not administered or data not available

TQM-23DA-DC**Question:**

The following list includes the main topics addressed by the TIMSS mathematics test. Choose the response that best describes when the students in this class have been taught each topic. If a topic was in the curriculum before the <eighth grade>, please choose “Mostly taught before this year.” 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 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 = Mostly taught before this year

2 = Mostly taught this year

3 = Not yet taught or just introduced

Variable Name(s): BTBM23DA, BTBM23DB, BTBM23DC

Country	Item ID	Code	Documentation
Kazakhstan	TQM-23DA-DC	X	Question not administered or data not available
Russian Federation	TQM-23DA-DC	X	Question not administered or data not available

TQM-30AA-AE**Question:**

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

If a topic is not in the <eighth-grade> curriculum or you are not responsible for teaching this topic, Please choose “Not applicable.”

A: Computing, estimating, or approximating with whole numbers

B: Concepts of fractions and computing with fractions

C: Concepts of decimals and computing with 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): BTBM30AA, BTBM30AB, BTBM30AC, BTBM30AD, BTBM30AE

Country	Item ID	Code	Documentation
Hungary	TQM-30AA-AE	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
Kazakhstan	TQM-30AA-AE	X	Question not administered or data not available
Russian Federation	TQM-30AA-AE	X	Question not administered or data not available

TQM-30BA-BE**Question:**

How well prepared do you feel you are to teach the following mathematics topics?
If a topic is not in the <eighth-grade> curriculum or you are not responsible for teaching this topic,
Please choose "Not applicable."

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

B: Simplifying and evaluating algebraic expressions

C: Simple linear equations and inequalities

D: Simultaneous (two variables) equations

E: Representation 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): BTBM30BA, BTBM30BB, BTBM30BC, BTBM30BD, BTBM30BE

Country	Item ID	Code	Documentation
Hungary	TQM-30BA-BE	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
Kazakhstan	TQM-30BA-BE	X	Question not administered or data not available
Russian Federation	TQM-30BA-BE	X	Question not administered or data not available

TQM-30CA-CF**Question:**

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

If a topic is not in the <eighth-grade> curriculum or you are not responsible for teaching this topic, Please choose "Not applicable."

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 representations

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

E: Points on the Cartesian plane

F: Translation, reflection, and rotation

1 = Not applicable

2 = Very well prepared

3 = Somewhat prepared

4 = Not well prepared

Variable Name(s): BTBM30CA, BTBM30CB, BTBM30CC, BTBM30CD, BTBM30CE, BTBM30CF

Country	Item ID	Code	Documentation
Hungary	TQM-30CA-CF	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
Kazakhstan	TQM-30CA-CF	X	Question not administered or data not available
Russian Federation	TQM-30CA-CF	X	Question not administered or data not available

TQM-30DA-DC**Question:**

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

If a topic is not in the <eighth-grade> curriculum or you are not responsible for teaching this topic, Please choose "Not applicable."

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): BTBM30DA, BTBM30DB, BTBM30DC

Country	Item ID	Code	Documentation
Hungary	TQM-30DA-DC	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
Kazakhstan	TQM-30DA-DC	X	Question not administered or data not available
Russian Federation	TQM-30DA-DC	X	Question not administered or data not available

ITCOURSE**Question:**

TYPE OF COURSE

Variable Name(s): ITCOURSE

Country	Item ID	Code	Documentation
----------------	----------------	-------------	----------------------

All countries	ITCOURSE	D	1 = Mathematics
---------------	----------	---	-----------------

Section 6

Eighth Grade – Science Teacher Questionnaire

TQG-04**Question:**

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

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

Variable Name(s): BTBG04

Country	Item ID	Code	Documentation
Abu Dhabi, UAE	TQG-04	D	Nationally defined options: 1 = Did not complete secondary school 2 = Secondary school 3 = Teacher Training Certificate, Apprenticeship or Traineeship 4 = A college diploma 5 = Bachelor's degree 6 = Master's degree or higher
Alabama, US	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in vocational/technical program 5 = Academic Associate's degree (AA) 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)
Alberta, Canada	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = College or CÉGEP 4 = Business, trade or vocational school 5 = University - Bachelor's degree 6 = University - Master's or PhD or equivalent
Armenia	TQG-04	D	National options recoded for international comparability: 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 6 = Higher education / Ph.D. or higher
Australia	TQG-04	D	National options recoded for international comparability: 1 = Did not finish secondary school 2 = Secondary school 3 = TAFE training certificate, apprenticeship or traineeship 4 = TAFE or College Diploma (e.g., Diploma in Information Technology, Diploma in Veterinary Nursing) 5 = Undergraduate degree 6 = Postgraduate or Graduate Diploma (e.g., Diploma of Education) / Master's degree or higher

SECTION 6: EIGHTH GRADE – SCIENCE TEACHER QUESTIONNAIRE

Bahrain	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary education 2 = Secondary education 3 = Diploma 4 = Option not administered or data not available 5 = Bachelor's degree 6 = Post-graduate Diploma / Master's or higher
Botswana	TQG-04	D	Nationally defined options: 1 = Did not complete Senior Secondary 2 = Senior Secondary 3 = Vocational / Technical Certificate 4 = Diploma 5 = First degree 6 = Masters degree or higher
California, US	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in vocational/technical program 5 = Academic Associate's degree (AA) 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)
Chile	TQG-04	D	Nationally defined options: 1 = Did not finish secondary school 2 = Secondary school 3 = Post secondary studies at a center of technical education 4 = Post secondary studies at a professional institute 5 = Post secondary studies at a university (licentiate or equivalent) 6 = Post graduate studies (master or doctorate)
Chinese Taipei	TQG-04	D	Nationally defined options: 1 = Did not complete the education of senior high school or vocational high school 2 = Education of senior high school or vocational high school 3 = Education of five-year or two-year junior college 4 = Two-year or four-year undergraduate program of university or college of science and technology 5 = Comprehensive university or college 6 = Master or higher
Colorado, US	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in vocational/technical program 5 = Academic Associate's degree (AA) 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)
Connecticut, US	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in vocational/technical program 5 = Academic Associate's degree (AA) 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)

SECTION 6: EIGHTH GRADE – SCIENCE TEACHER QUESTIONNAIRE

Dubai, UAE	TQG-04	D	Nationally defined options: 1 = Did not complete secondary school 2 = Secondary school 3 = Teacher Training Certificate, Apprenticeship or Traineeship 4 = A college diploma 5 = Bachelor's degree 6 = Master's degree or higher
England	TQG-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
Finland	TQG-04	D	Nationally defined options: 1 = No upper secondary degree 2 = Upper secondary degree, academic or vocational 3 = Post-secondary vocational degree 4 = Higher vocational degree 5 = Lower degree at the university or polytechnic, 3 years 6 = Higher degree at the university or polytechnic, 5 years, or post-graduate degree at the university
Florida, US	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in vocational/technical program 5 = Academic Associate's degree (AA) 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)
Georgia	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary school 2 = Secondary school (11 years) / Secondary vocational school (after 9th grade) 3 = Post-secondary vocational school (after 11th grade) 4 = High vocational school 5 = Bachelor's degree (4 years) 6 = Master's or PhD (also includes former 5 years of university education)
Ghana	TQG-04	D	Nationally defined options: 1 = Did not complete senior high school 2 = Senior high school 3 = A post secondary course / teacher training college 4 = Higher national diploma 5 = University or first degree 6 = Masters / second degree or higher
Honduras	TQG-04	D	Nationally defined options: 1 = Did not complete high school 2 = High school 3 = Non-university technical education 4 = Technical university or higher education 5 = Undergraduate college education (BA, Engineering, etc.) 6 = Graduate education (Master or higher)
Hong Kong SAR	TQG-04	D	Nationally defined options: 1 = Did not complete secondary education 2 = Secondary education (F.5, F.6, or F.7) 3 = Vocational training after secondary education 4 = Certificate in Education (awarded by the Institute of Education or the former Colleges of Education), a diploma, or an associate degree 5 = Bachelor's degree 6 = Master's degree or above

SECTION 6: EIGHTH GRADE – SCIENCE TEACHER QUESTIONNAIRE

Hungary	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary school 2 = Secondary school 3 = Vocational programs (usually two years) based on Maturity examination 4 = Accredited post secondary vocational programs 5 = College, or university BA level 6 = University, or university MA level / Higher than university or university MA level (e.g., PhD, University post-graduate programme)
Indiana, US	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in vocational/technical program 5 = Academic Associate's degree (AA) 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)
Indonesia	TQG-04	D	Nationally defined options: 1 = Did not complete senior high school 2 = Senior high school 3 = Diploma 1 / Diploma 2 4 = Diploma 3 / Diploma 4 5 = Bachelor degree 6 = Master degree or higher
Iran, Islamic Rep. of	TQG-04	D	Nationally defined options: 1 = Lower than high school education 2 = High school education 3 = Pre-university college 4 = Two years degree in technical subjects or in theoretical subjects 5 = First degree 6 = Master degree or higher
Israel	TQG-04	D	Nationally defined options: 1 = Did not complete high school 2 = High school 3 = Preparatory studies (Academic Preparatory Year) 4 = Post-secondary trade school (teaching diploma without B.Ed) 5 = First-degree academic studies (with B.Ed) 6 = Second-degree academic studies or higher
Italy	TQG-04	D	National options recoded for international comparability: 1 = Option not administered or data not available 2 = Upper secondary education diploma 3 = 2nd level regional vocational training diploma 4 = Academy of art, Academy of dramatic art, Design Institute, Conservatoire diploma 5 = University degree 6 = Post-university degree (e.g., PhD, post-graduate school, master)
Japan	TQG-04	D	Nationally defined options: 1 = Did not complete the upper secondary school 2 = Upper secondary school 3 = Junior college 4 = Specific college (e.g., the meteorological college, National Defence Academy) 5 = University or college 6 = Graduate school or higher

SECTION 6: EIGHTH GRADE – SCIENCE TEACHER QUESTIONNAIRE

Jordan	TQG-04	D	Nationally defined options: 1 = Did not complete the final stage of secondary school education 2 = Final stage of secondary school education 3 = Community college diploma (2 years study) 4 = Community college diploma (3 years study) 5 = First university degree 6 = Second university degree or higher
Kazakhstan	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary education 2 = Secondary general education or first-level vocational education 3 = Second-level vocational education / Secondary level vocational education 4 = Option not administered or data not available 5 = Higher education (bachelor or professional degree) 6 = Second higher education, candidate / master or doctor (PhD)
Korea, Rep. of	TQG-04	D	National options recoded for international comparability: 1 = Did not complete the high school 2 = High school 3 = Option not administered or data not available 4 = College of 2 or 3 years 5 = University of 4 years 6 = Graduate school
Lebanon	TQG-04	D	National options recoded for international comparability: 1 = Option not administered or data not available 2 = Secondary + 1 or 2 years teaching training 3 = Secondary + 3 or 4 years teacher training 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	TQG-04	D	Nationally defined options: 1 = Did not complete secondary education 2 = Secondary education 3 = Post-secondary non-tertiary education (1-2 years) 4 = Higher non-university education (college) 5 = Higher education - Bachelor's degree or equivalent 6 = Higher education - Master's degree or higher
Macedonia, Rep. of	TQG-04	D	Nationally defined options: 1 = Did not complete secondary school 2 = Secondary school 3 = Post-secondary school 4 = Two years university 5 = University 6 = More than university
Malaysia	TQG-04	D	Nationally defined options: 1 = Did not complete upper secondary 2 = Upper secondary 3 = Post secondary 4 = Tertiary level - diploma 5 = Tertiary level - first degree 6 = Tertiary level - first degree, second degree or higher
Massachusetts, US	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in vocational/technical program 5 = Academic Associate's degree (AA) 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)

SECTION 6: EIGHTH GRADE – SCIENCE TEACHER QUESTIONNAIRE

Minnesota, US	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in vocational/technical program 5 = Academic Associate's degree (AA) 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	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary preparatory / Secondary preparatory level 2 = Secondary level education 3 = Option not administered or data not available 4 = Option not administered or data not available 5 = Bachelor's degree 6 = Master's degree / Doctorate
New Zealand	TQG-04	D	National options recoded for international comparability: 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 = National diploma (e.g., National Diploma in Science L5-6), or vocational diploma (e.g., Diploma of Teaching) 5 = Bachelor's degree 6 = Bachelor's Honours, Post-graduate diploma (e.g., Dip ORS), or Master's degree / PhD
North Carolina, US	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = Vocational/technical certificate after high school 4 = Associate's degree (AA) in vocational/technical program 5 = Academic Associate's degree (AA) 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)
Norway	TQG-04	D	Nationally defined options: 1 = Did not finish upper secondary school 2 = Upper secondary school 3 = Post-upper secondary education, but not university or college 4 = University or college (less than 3 years) 5 = University or college (3 years or more) 6 = PhD
Oman	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary school 2 = Secondary school 3 = Diploma 4 = Option not administered or data not available 5 = University, first degree 6 = Beyond the first degree (Master's degree or higher)
Ontario, Canada	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = College or CÉGEP 4 = Business, trade or vocational school 5 = University - Bachelor's degree 6 = University - Master's or PhD or equivalent

SECTION 6: EIGHTH GRADE – SCIENCE TEACHER QUESTIONNAIRE

Palestinian Nat'l Auth.	TQG-04	D	Nationally defined options: 1 = Did not finish secondary certificate 2 = Secondary certificate 3 = Diploma, 2 years 4 = Diploma, 3 years 5 = Bachelor's degree 6 = Master's degree or higher
Qatar	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary level education 2 = Secondary level education 3 = Diploma level education (post-secondary but before university) 4 = Option not administered or data not available 5 = University degree 6 = Post university degree or higher
Quebec, Canada	TQG-04	D	National options recoded for international comparability: 1 = Did not complete high school 2 = High school 3 = College or CÉGEP 4 = Business, trade or vocational school 5 = University - Bachelor's degree 6 = University - Master's or PhD or equivalent
Romania	TQG-04	D	Nationally defined options: 1 = Did not complete upper secondary education 2 = Upper secondary education 3 = Post high school education 4 = Higher education-short duration 5 = Higher education-long duration 6 = Post university studies
Russian Federation	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary education 2 = Secondary general education 3 = Initial vocational education / Secondary vocational education 4 = Option not administered or data not available 5 = Option not administered or data not available 6 = Higher education (bachelor or master degree, specialist) / Second university degree, candidate or doctor of sciences
Saudi Arabia	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary education 2 = Secondary education 3 = Diploma or higher diploma (e.g., teaching diploma) 4 = Option not administered or data not available 5 = Bachelor degree 6 = Master degree or doctorate
Singapore	TQG-04	D	Nationally defined options: 1 = Did not complete Upper Secondary 2 = Upper Secondary 3 = Post-secondary Non-tertiary (e.g., JC, CI, ITE) 4 = Polytechnic 5 = University First Degree 6 = University Second Degree or higher (e.g., Master's, PhD)
Slovenia	TQG-04	D	National options recoded for international comparability: 1 = Option not administered or data not available 2 = Secondary school 3 = Vocational training after secondary school 4 = University studies of 2 to 3 years 5 = University studies of 4 to 5 years 6 = Master degree or PhD

SECTION 6: EIGHTH GRADE – SCIENCE TEACHER QUESTIONNAIRE

South Africa	TQG-04	D	Nationally defined options: 1 = Did not complete Grade 12 2 = Grade 12 3 = Post-matric certificate 4 = Diploma 5 = First degree 6 = Honours degree or higher
Sweden	TQG-04	D	Nationally defined options: 1 = Did not complete secondary school 2 = Secondary school 3 = Tertiary education, not university or college 4 = Higher education up to 2 years (e.g., professional university or college degree) 5 = University or college degree 3-5 years (e.g., bachelor or master degree) 6 = Postgraduate education (licentiate or PhD degree)
Syrian Arab Republic	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary school 2 = Secondary school 3 = Intermediate institute 4 = Option not administered or data not available 5 = University (4-5 years) 6 = Master degree or higher
Thailand	TQG-04	D	National options recoded for international comparability: 1 = Did not complete upper secondary school or vocational certificate 2 = Upper secondary school or vocational certificate 3 = Diploma or high vocational certificate 4 = Option not administered or data not available 5 = Bachelor's degree (4 years) / Bachelor's degree (5 years or more) 6 = Master's degree or higher
Tunisia	TQG-04	D	Nationally defined options: 1 = Did not complete secondary school 2 = Secondary education 3 = Professional training after secondary education (baccalaureate) 4 = 1st cycle of university education 5 = 2nd cycle of university education 6 = 3rd cycle of university education or higher
Turkey	TQG-04	D	National options recoded for international comparability: 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 (BA) 6 = Tertiary education, second degree (MS/MA, PhD)
Ukraine	TQG-04	D	National options recoded for international comparability: 1 = Did not complete secondary education 2 = Secondary education 3 = Vocational education (Technical vocational school) / Technical school or college 4 = Option not administered or data not available 5 = Higher education 6 = Second higher education or PhD
United Arab Emirates	TQG-04	D	Nationally defined options: 1 = Did not complete secondary school 2 = Secondary school 3 = Teacher Training Certificate, Apprenticeship or Traineeship 4 = A college diploma 5 = Bachelor's degree 6 = Master's degree or higher

SECTION 6: EIGHTH GRADE – SCIENCE TEACHER QUESTIONNAIRE

United States

TQG-04

D

National options recoded for international comparability:

1 = Did not complete high school

2 = High school

3 = Vocational/technical certificate after high school

4 = Associate's degree (AA) in vocational/technical program

5 = Academic Associate's degree (AA) 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)

TQG-05A-I**Question:**

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

A: Mathematics

B: Biology

C: Physics

D: Chemistry

E: <Earth Science>

F: Education–Mathematics

G: Education–Science

H: Education–General

I: Other

1 = Yes

2 = No

Variable Name(s): BTBG05A, BTBG05B, BTBG05C, BTBG05D, BTBG05E, BTBG05F, BTBG05G, BTBG05H, BTBG05I

Country	Item ID	Code	Documentation
Abu Dhabi, UAE	TQG-05E	D	Earth Science (e.g., Geography, Geology)
Alabama, US	TQG-05A-I	D	College or university
Botswana	TQG-05E	D	General Science
California, US	TQG-05A-I	D	College or university
Chile	TQG-05E	D	Geo-science / Geography
Colorado, US	TQG-05A-I	D	College or university
Connecticut, US	TQG-05A-I	D	College or university
Dubai, UAE	TQG-05E	D	Earth Science (e.g., Geography, Geology)
Florida, US	TQG-05A-I	D	College or university
Georgia	TQG-05E	D	Earth Science (Physical Geography)
Ghana	TQG-05E	D	Geography
Honduras	TQG-05A-I	D	College education
Hong Kong SAR	TQG-05E	D	Earth Science / Geography
Hungary	TQG-05A-I	D	Tertiary education
Hungary	TQG-05G	D	Education-Biology / Education-Physics / Education-Chemistry / Education-Earth Science
Indiana, US	TQG-05A-I	D	College or university
Indonesia	TQG-05E	D	Geography
Israel	TQG-05E	D	Earth and Space Science
Italy	TQG-05F-H	X	Option not administered or data not available
Kazakhstan	TQG-05A-I	D	Professional education

SECTION 6: EIGHTH GRADE – SCIENCE TEACHER QUESTIONNAIRE

Kazakhstan	TQG-05E	D	Geography
Korea, Rep. of	TQG-05A-I	D	University (or the graduate school)
Lebanon	TQG-05E	X	Option not administered or data not available
Lithuania	TQG-05A-I	D	Further post-secondary or higher education
Lithuania	TQG-05E	D	Geography
Macedonia, Rep. of	TQG-05A-I	D	Two years university or university
Macedonia, Rep. of	TQG-05E	D	Geography
Massachusetts, US	TQG-05A-I	D	College or university
Minnesota, US	TQG-05A-I	D	College or university
Morocco	TQG-05A-I	D	University studies
New Zealand	TQG-05B	D	Biology (including Botany, Zoology)
New Zealand	TQG-05E	D	Geology, Physical Geography, Earth Science
North Carolina, US	TQG-05A-I	D	College or university
Norway	TQG-05A-I	D	Stem of the question changed: In which subjects do you have 20 or more study points from a university or college? (20 credits = 60 study points = 1 year studying)
Romania	TQG-05E	D	Geography
Russian Federation	TQG-05E	D	Geography
Singapore	TQG-05E	D	Geography
Slovenia	TQG-05A-I	D	Studies
South Africa	TQG-05A-I	D	Tertiary
South Africa	TQG-05E	D	Earth or Environmental Science
Sweden	TQG-05E	D	Geography / Earth Science
Thailand	TQG-05A-I	D	Higher education
Tunisia	TQG-05A-I	D	University
Tunisia	TQG-05E	D	Biology and Earth Science
Turkey	TQG-05A-I	D	Higher education
Ukraine	TQG-05A-I	D	Higher or vocational education
Ukraine	TQG-05E	D	Geography
United Arab Emirates	TQG-05E	D	Earth Science (e.g., Geography, Geology)
United States	TQG-05A-I	D	College or university

TQG-15A-F**Question:**

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

- A: Students lacking prerequisite knowledge or skills
 - B: Students suffering from lack of basic nutrition
 - C: Students suffering from not enough sleep
 - D: Students with special needs (e.g., physical disabilities, mental or emotional/ psychological impairment)
 - E: Disruptive students
 - F: Uninterested students
- 1 = Not applicable
2 = Not at all
3 = Some
4 = A lot

Variable Name(s): BTBG15A, BTBG15B, BTBG15C, BTBG15D, BTBG15E, BTBG15F

Country	Item ID	Code	Documentation
Hungary	TQG-15A-F	D	Nationally defined categories: 1 = Does not occur in this class 2 = Not at all 3 = Some 4 = A lot

TQS-19A-K**Question:**

In teaching science to the students in this class, how often do you usually ask them to do the following?

- A: Observe natural phenomena and describe what they see
 - B: Watch me demonstrate an experiment or investigation
 - C: Design or plan experiments or investigations
 - D: Conduct experiments or investigations
 - E: Read their textbooks or other resource materials
 - F: Have students memorize facts and principles
 - G: Use scientific formulas and laws to solve routine problems
 - H: Give explanations about something they are studying
 - I: Relate what they are learning in science to their daily lives
 - J: Do field work outside of class
 - K: Take a written test or quiz
- 1 = Every or almost every lesson
2 = About half the lessons
3 = Some lessons
4 = Never

Variable Name(s): BTBS19A, BTBS19B, BTBS19C, BTBS19D, BTBS19E, BTBS19F, BTBS19G, BTBS19H, BTBS19I, BTBS19J, BTBS19K

Country	Item ID	Code	Documentation
Oman	TQS-19G	X	Option not administered or data not available

TQS-22AA-AG**Question:**

The following list includes the main topics addressed by the TIMSS science test. Choose the response that best describes when the students in this class have been taught each topic. If a topic was in the curriculum before the <eighth grade>, please choose “Mostly taught before this year.” 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: 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: Interdependence of populations of organisms in an ecosystem (e.g., energy flow, food webs, competition, predation) and the impact of changes in the physical environment on populations (e.g., climate, water supply)

F: Reasons for increase in world’s human population (e.g., advances in medicine, sanitation), and the effects of population growth on the environment

G: Human health (causes of infectious diseases, methods of infection, prevention, immunity) and the importance of diet and exercise in maintaining health

1 = Mostly taught before this year

2 = Mostly taught this year

3 = Not yet taught or just introduced

Variable Name(s): BTBS22AA, BTBS22AB, BTBS22AC, BTBS22AD, BTBS22AE, BTBS22AF, BTBS22AG

Country	Item ID	Code	Documentation
Kazakhstan	TQS-22AA-AG	X	Question not administered or data not available
Russian Federation	TQS-22AA-AG	X	Question not administered or data not available

TQS-22BA-BD**Question:**

The following list includes the main topics addressed by the TIMSS science test. Choose the response that best describes when the students in this class have been taught each topic. If a topic was in the curriculum before the <eighth grade>, please choose “Mostly taught before this year.” 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, composition, and particulate structure of matter (elements, compounds, mixtures, molecules, atoms, protons, neutrons, electrons)

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

C: Properties and uses of common acids and bases

D: Chemical change (transformation of reactants, evidence of chemical change, conservation of matter, common oxidation reactions – combustion, rusting, tarnishing)

1 = Mostly taught before this year

2 = Mostly taught this year

3 = Not yet taught or just introduced

Variable Name(s): BTBS22BA, BTBS22BB, BTBS22BC, BTBS22BD

Country	Item ID	Code	Documentation
Kazakhstan	TQS-22BA-BD	X	Question not administered or data not available
Russian Federation	TQS-22BA-BD	X	Question not administered or data not available

TQS-22CA-CE**Question:**

The following list includes the main topics addressed by the TIMSS science test. Choose the response that best describes when the students in this class have been taught each topic. If a topic was in the curriculum before the <eighth grade>, please choose “Mostly taught before this year.” 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 in terms of movement and 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) and properties and uses of permanent magnets and electromagnets

E: Forces and motion (types of forces, basic description of motion, 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): BTBS22CA, BTBS22CB, BTBS22CC, BTBS22CD, BTBS22CE

Country	Item ID	Code	Documentation
Kazakhstan	TQS-22CA-CE	X	Question not administered or data not available
Russian Federation	TQS-22CA-CE	X	Question not administered or data not available

TQS-22DA-DD**Question:**

The following list includes the main topics addressed by the TIMSS science test. Choose the response that best describes when the students in this class have been taught each topic. If a topic was in the curriculum before the <eighth grade>, please choose “Mostly taught before this year.” 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; composition and relative distribution of water, and composition of air)

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

C: Earth’s resources, their use and conservation (e.g., renewable/nonrenewable resources, human use of land/soil, water resources)

D: 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 = Mostly taught before this year

2 = Mostly taught this year

3 = Not yet taught or just introduced

Variable Name(s): BTBS22DA, BTBS22DB, BTBS22DC, BTBS22DD

Country	Item ID	Code	Documentation
Kazakhstan	TQS-22DA-DD	X	Question not administered or data not available
Russian Federation	TQS-22DA-DD	X	Question not administered or data not available

TQS-23A-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 students in this 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

Variable Name(s): BTBS23A, BTBS23B, BTBS23C, BTBS23D, BTBS23E

Country	Item ID	Code	Documentation
Chile	TQS-23D	D	Geo-science / Geography (e.g., Earth's structure, processes, and resources; the solar system and universe)
Hungary	TQS-23A-E	X	Question not administered or data not available
Kazakhstan	TQS-23A-E	X	Question not administered or data not available
Lithuania	TQS-23D	D	Physical geography
Russian Federation	TQS-23A-E	X	Question not administered or data not available
Singapore	TQS-23D	D	Geography (e.g., Earth's structure, processes, and resources; the solar system and universe)
South Africa	TQS-23D	D	Earth or environmental science (e.g., Earth's structure, processes, and resources; the solar system and universe)
Ukraine	TQS-23A-E	X	Question not administered or data not available

TQS-29AA-AG**Question:**

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

If a topic is not in the <eighth-grade> curriculum or you are not responsible for teaching this topic, please choose "Not applicable."

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: Interdependence of populations of organisms in an ecosystem (e.g., energy flow, food webs, competition, predation) and the impact of changes in the physical environment on populations (e.g., climate, water supply)

F: Reasons for increase in world's human population (e.g., advances in medicine, sanitation), and the effects of population growth on the environment

G: Human health (causes of infectious diseases, methods of infection, prevention, immunity) and the importance of diet and exercise in maintaining health

1 = Not applicable

2 = Very well prepared

3 = Somewhat prepared

4 = Not well prepared

Variable Name(s): BTBS29AA, BTBS29AB, BTBS29AC, BTBS29AD, BTBS29AE, BTBS29AF, BTBS29AG

Country	Item ID	Code	Documentation
Hungary	TQS-29AA-AG	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
Kazakhstan	TQS-29AA-AG	X	Question not administered or data not available
Russian Federation	TQS-29AA-AG	X	Question not administered or data not available

TQS-29BA-BD**Question:**

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

If a topic is not in the <eighth-grade> curriculum or you are not responsible for teaching this topic, please choose "Not applicable."

A: Classification, composition, and particulate structure of matter (elements, compounds, mixtures, molecules, atoms, protons, neutrons, electrons)

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

C: Properties and uses of common acids and bases

D: Chemical change (transformation of reactants, evidence of chemical change, conservation of matter, common oxidation reactions – combustion, rusting, tarnishing)

1 = Not applicable

2 = Very well prepared

3 = Somewhat prepared

4 = Not well prepared

Variable Name(s): BTBS29BA, BTBS29BB, BTBS29BC, BTBS29BD

Country	Item ID	Code	Documentation
Hungary	TQS-29BA-BD	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
Kazakhstan	TQS-29BA-BD	X	Question not administered or data not available
Russian Federation	TQS-29BA-BD	X	Question not administered or data not available

TQS-29CA-CE**Question:**

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

If a topic is not in the <eighth-grade> curriculum or you are not responsible for teaching this topic, please choose "Not applicable."

A: Physical states and changes in matter (explanations of properties in terms of movement and 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) and properties and uses of permanent magnets and electromagnets

E: Forces and motion (types of forces, basic description of motion, effects of density and pressure)

1 = Not applicable

2 = Very well prepared

3 = Somewhat prepared

4 = Not well prepared

Variable Name(s): BTBS29CA, BTBS29CB, BTBS29CC, BTBS29CD, BTBS29CE

Country	Item ID	Code	Documentation
Hungary	TQS-29CA-CE	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
Kazakhstan	TQS-29CA-CE	X	Question not administered or data not available
Russian Federation	TQS-29CA-CE	X	Question not administered or data not available

TQS-29DA-DD**Question:**

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

If a topic is not in the <eighth-grade> curriculum or you are not responsible for teaching this topic, please choose "Not applicable."

A: Earth's structure and physical features (Earth's crust, mantle and core; composition and relative distribution of water, and composition of air)

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

C: Earth's resources, their use and conservation (e.g., renewable/nonrenewable resources, human use of land/soil, water resources)

D: 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): BTBS29DA, BTBS29DB, BTBS29DC, BTBS29DD

Country	Item ID	Code	Documentation
Hungary	TQS-29DA-DD	D	Nationally defined categories: 1 = Not included in the curriculum 2 = Very well prepared 3 = Somewhat prepared 4 = Not well prepared
Kazakhstan	TQS-29DA-DD	X	Question not administered or data not available
Russian Federation	TQS-29DA-DD	X	Question not administered or data not available

ITCOURSE**Question:**

TYPE OF COURSE

Variable Name(s): ITCOURSE

Country	Item ID	Code	Documentation
Abu Dhabi, UAE	ITCOURSE	D	6 = Integrated Science
Alabama, US	ITCOURSE	D	6 = Integrated Science
Alberta, Canada	ITCOURSE	D	6 = Integrated Science
Armenia	ITCOURSE	D	2 = Physics 3 = Biology 4 = Chemistry 5 = Earth Science
Australia	ITCOURSE	D	6 = Integrated Science
Bahrain	ITCOURSE	D	6 = Integrated Science
Botswana	ITCOURSE	D	6 = Integrated Science
California, US	ITCOURSE	D	6 = Integrated Science
Chile	ITCOURSE	D	6 = Integrated Science
Chinese Taipei	ITCOURSE	D	6 = Integrated Science
Colorado, US	ITCOURSE	D	6 = Integrated Science
Connecticut, US	ITCOURSE	D	6 = Integrated Science
Dubai, UAE	ITCOURSE	D	6 = Integrated Science
England	ITCOURSE	D	2 = Physics 3 = Biology 4 = Chemistry 6 = Integrated Science
Finland	ITCOURSE	D	2 = Physics 3 = Biology 4 = Chemistry 5 = Earth Science 8 = Physics / Chemistry 9 = Biology / Earth Science
Florida, US	ITCOURSE	D	6 = Integrated Science
Georgia	ITCOURSE	D	2 = Physics 3 = Biology 5 = Earth Science
Ghana	ITCOURSE	D	6 = Integrated Science
Honduras	ITCOURSE	D	6 = Integrated Science

SECTION 6: EIGHTH GRADE – SCIENCE TEACHER QUESTIONNAIRE

Hong Kong SAR	ITCOURSE	D	6 = Integrated Science
Hungary	ITCOURSE	D	2 = Physics 3 = Biology 4 = Chemistry 5 = Earth Science
Indiana, US	ITCOURSE	D	6 = Integrated Science
Indonesia	ITCOURSE	D	2 = Physics 3 = Biology 6 = Integrated Science
Iran, Islamic Rep. of	ITCOURSE	D	6 = Integrated Science
Israel	ITCOURSE	D	6 = Integrated Science
Italy	ITCOURSE	D	6 = Integrated Science
Japan	ITCOURSE	D	6 = Integrated Science
Jordan	ITCOURSE	D	6 = Integrated Science
Kazakhstan	ITCOURSE	D	2 = Physics 3 = Biology 4 = Chemistry 5 = Earth Science
Korea, Rep. of	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 = Earth Science
Macedonia, Rep. of	ITCOURSE	D	2 = Physics 3 = Biology 4 = Chemistry 5 = Earth Science
Malaysia	ITCOURSE	D	6 = Integrated Science
Massachusetts, US	ITCOURSE	D	6 = Integrated Science
Minnesota, US	ITCOURSE	D	6 = Integrated Science
Morocco	ITCOURSE	D	8 = Physics / Chemistry 9 = Biology / Earth Science
New Zealand	ITCOURSE	D	6 = Integrated Science
North Carolina, US	ITCOURSE	D	6 = Integrated Science
Norway	ITCOURSE	D	6 = Integrated Science
Oman	ITCOURSE	D	6 = Integrated Science
Ontario, Canada	ITCOURSE	D	6 = Integrated Science

SECTION 6: EIGHTH GRADE – SCIENCE TEACHER QUESTIONNAIRE

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 = Earth Science
Russian Federation	ITCOURSE	D	2 = Physics 3 = Biology 4 = Chemistry 5 = Geography
Saudi Arabia	ITCOURSE	D	6 = Integrated Science
Singapore	ITCOURSE	D	6 = Integrated Science
Slovenia	ITCOURSE	D	2 = Physics 3 = Biology 4 = Chemistry 5 = Earth Science
South Africa	ITCOURSE	D	6 = Integrated Science
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
Turkey	ITCOURSE	D	6 = Integrated Science
Ukraine	ITCOURSE	D	2 = Physics 3 = Biology 4 = Chemistry 5 = Earth Science
United Arab Emirates	ITCOURSE	D	6 = Integrated Science
United States	ITCOURSE	D	6 = Integrated Science

Section 7

Eighth Grade – School Questionnaire

SCQ-01**Question:**

What is the total enrollment of students in your school as of <first day of month TIMSS testing begins, 10/2011>?

Variable Name(s): BCBG01

Country	Item ID	Code	Documentation
Abu Dhabi, UAE	SCQ-01	D	March 1, 2011
Alabama, US	SCQ-01	D	April 1, 2011
Alberta, Canada	SCQ-01	D	March 1, 2011
Armenia	SCQ-01	D	At the time the TIMSS 2011 testing takes place in 2010/2011
Australia	SCQ-01	D	November 1, 2010
Bahrain	SCQ-01	D	October 1, 2011
Botswana	SCQ-01	D	November 1, 2010
California, US	SCQ-01	D	April 1, 2011
Chile	SCQ-01	D	November 1, 2010
Chinese Taipei	SCQ-01	D	May 1, 2011
Colorado, US	SCQ-01	D	April 1, 2011
Connecticut, US	SCQ-01	D	April 1, 2011
Dubai, UAE	SCQ-01	D	March 1, 2011
England	SCQ-01	D	May 1, 2011
Finland	SCQ-01	D	March 1, 2011
Florida, US	SCQ-01	D	April 1, 2011
Georgia	SCQ-01	D	May 1, 2011
Ghana	SCQ-01	D	May 2011
Honduras	SCQ-01	D	October 28, 2010
Hong Kong SAR	SCQ-01	D	April 1, 2011
Hungary	SCQ-01	D	March 1, 2011
Indiana, US	SCQ-01	D	April 1, 2011
Indonesia	SCQ-01	D	March 1, 2011

SECTION 7: EIGHTH GRADE – SCHOOL QUESTIONNAIRE

Iran, Islamic Rep. of	SCQ-01	D	The Persian calendar used. The date corresponds to May 1, 2011.
Israel	SCQ-01	D	May 1, 2011
Italy	SCQ-01	D	March 1, 2011
Japan	SCQ-01	D	March 1, 2011
Jordan	SCQ-01	D	April 1, 2011
Kazakhstan	SCQ-01	D	April 1, 2011
Korea, Rep. of	SCQ-01	D	December 1, 2010
Lebanon	SCQ-01	D	April 1, 2011
Lithuania	SCQ-01	D	March 1, 2011
Macedonia, Rep. of	SCQ-01	D	As of today
Malaysia	SCQ-01	D	October 1, 2010
Massachusetts, US	SCQ-01	D	April 1, 2011
Minnesota, US	SCQ-01	D	April 1, 2011
Morocco	SCQ-01	D	May 2011
New Zealand	SCQ-01	D	November 1, 2010
North Carolina, US	SCQ-01	D	April 1, 2011
Norway	SCQ-01	D	March 1, 2011
Oman	SCQ-01	D	April 1, 2011
Ontario, Canada	SCQ-01	D	March 1, 2011
Palestinian Nat'l Auth.	SCQ-01	D	May 1, 2011
Qatar	SCQ-01	D	April 1, 2011
Quebec, Canada	SCQ-01	D	March 1, 2011
Romania	SCQ-01	D	May 1, 2011
Russian Federation	SCQ-01	D	April 1, 2011
Saudi Arabia	SCQ-01	D	May 22, 2011
Singapore	SCQ-01	D	October 1, 2010
Slovenia	SCQ-01	D	This school year
South Africa	SCQ-01	D	August 1, 2011
Sweden	SCQ-01	D	March 1, 2011
Syrian Arab Republic	SCQ-01	D	April 1, 2011

SECTION 7: EIGHTH GRADE – SCHOOL QUESTIONNAIRE

Thailand	SCQ-01	D	February 1, 2011
Tunisia	SCQ-01	D	May 1, 2011
Turkey	SCQ-01	D	April 1, 2011
Ukraine	SCQ-01	D	May 1, 2011
United Arab Emirates	SCQ-01	D	March 1, 2011
United States	SCQ-01	D	April 1, 2011

SCQ-02**Question:**

What is the total enrollment of <eighth-grade> students in your school as of <first day of month TIMSS testing begins, 2010/2011>?

Variable Name(s): BCBG02

Country	Item ID	Code	Documentation
Abu Dhabi, UAE	SCQ-02	D	March 1, 2011
Alabama, US	SCQ-02	D	April 1, 2011
Alberta, Canada	SCQ-02	D	March 1, 2011
Armenia	SCQ-02	D	At the time the TIMSS 2011 testing takes place in 2010/2011
Australia	SCQ-02	D	November 1, 2010
Bahrain	SCQ-02	D	October 1, 2011
Botswana	SCQ-02	D	November 1, 2010
California, US	SCQ-02	D	April 1, 2011
Chile	SCQ-02	D	November 1, 2010
Chinese Taipei	SCQ-02	D	May 1, 2011
Colorado, US	SCQ-02	D	April 1, 2011
Connecticut, US	SCQ-02	D	April 1, 2011
Dubai, UAE	SCQ-02	D	March 1, 2011
England	SCQ-02	D	May 1, 2011
Finland	SCQ-02	D	March 1, 2011
Florida, US	SCQ-02	D	April 1, 2011
Georgia	SCQ-02	D	May 1, 2011
Ghana	SCQ-02	D	May 2011
Honduras	SCQ-02	D	October 28, 2010
Hong Kong SAR	SCQ-02	D	April 1, 2011
Hungary	SCQ-02	D	March 1, 2011
Indiana, US	SCQ-02	D	April 1, 2011
Indonesia	SCQ-02	D	March 1, 2011
Iran, Islamic Rep. of	SCQ-02	D	The Persian calendar used. The date corresponds to May 1, 2011.

SECTION 7: EIGHTH GRADE – SCHOOL QUESTIONNAIRE

Israel	SCQ-02	D	May 1, 2011
Italy	SCQ-02	D	March 1, 2011
Japan	SCQ-02	D	March 1, 2011
Jordan	SCQ-02	D	April 1, 2011
Kazakhstan	SCQ-02	D	April 1, 2011
Korea, Rep. of	SCQ-02	D	December 1, 2010
Lebanon	SCQ-02	D	April 1, 2011
Lithuania	SCQ-02	D	March 1, 2011
Macedonia, Rep. of	SCQ-02	D	As of today
Malaysia	SCQ-02	D	October 1, 2010
Massachusetts, US	SCQ-02	D	April 1, 2011
Minnesota, US	SCQ-02	D	April 1, 2011
Morocco	SCQ-02	D	May 2011
New Zealand	SCQ-02	D	November 1, 2010
North Carolina, US	SCQ-02	D	April 1, 2011
Norway	SCQ-02	D	March 1, 2011
Oman	SCQ-02	D	April 1, 2011
Ontario, Canada	SCQ-02	D	March 1, 2011
Palestinian Nat'l Auth.	SCQ-02	D	May 1, 2011
Qatar	SCQ-02	D	April 1, 2011
Quebec, Canada	SCQ-02	D	March 1, 2011
Romania	SCQ-02	D	May 1, 2011
Russian Federation	SCQ-02	D	April 1, 2011
Saudi Arabia	SCQ-02	D	May 22, 2011
Singapore	SCQ-02	D	October 1, 2010
Slovenia	SCQ-02	D	Stem of the question changed: What is the total enrollment of eighth-grade students in your school?
South Africa	SCQ-02	D	August 1, 2011
Sweden	SCQ-02	D	March 1, 2011
Syrian Arab Republic	SCQ-02	D	April 1, 2011

SECTION 7: EIGHTH GRADE – SCHOOL QUESTIONNAIRE

Thailand	SCQ-02	D	February 1, 2011
Tunisia	SCQ-02	D	May 1, 2011
Turkey	SCQ-02	D	April 1, 2011
Ukraine	SCQ-02	D	May 1, 2011
United Arab Emirates	SCQ-02	D	March 1, 2011
United States	SCQ-02	D	April 1, 2011

SCQ-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): BCBG03A, BCBG03B

Country	Item ID	Code	Documentation
Norway	SCQ-03A-B	X	Question not administered or data not available

SCQ-05A-C**Question:**

A: 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

B: Which best describes the immediate area in which your school is located?

- 1 = Urban–Densely populated
- 2 = Suburban–On fringe or outskirts of urban area
- 3 = Medium size city or large town
- 4 = Small town or village
- 5 = Remote rural

C: Which best characterizes the average income level of the school's immediate area?

- 1 = High
- 2 = Medium
- 3 = Low

Variable Name(s): BCBG05A, BCBG05B, BCBG05C

Country	Item ID	Code	Documentation
Australia	SCQ-05A	D	National options recoded for international comparability: 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
Chinese Taipei	SCQ-05B	D	National options recoded for international comparability: 1 = Urban–Densely populated 2 = Suburban 3 = Medium size city or large town 4 = Small town or village 5 = Remote rural / Isolated island
Norway	SCQ-05B-C	X	Option not administered or data not available
Singapore	SCQ-05A	D	Gang punched to "More than 500,00 people"
Singapore	SCQ-05B	D	Gang punched to "Urban-Densely populated"

SCQ-06A**Question:**

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

Variable Name(s): BCBG06A

Country	Item ID	Code	Documentation
Singapore	SCQ-06A	D	Gang punched to "189"
Singapore	SCQ-06C	D	Gang punched to "5 days"
Slovenia	SCQ-06A	D	Gang punched to "190 days"

SCQ-06BA-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): BCBG06BA, BCBG06BB

Country	Item ID	Code	Documentation
Singapore	SCQ-06C	D	Gang punched to "5 days"
Slovenia	SCQ-06BA-BB	D	Gang punched to "4 hours and 12 minutes"

SCQ-06C**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): BCBG06C

Country	Item ID	Code	Documentation
Singapore	SCQ-06C	D	Gang punched to "5 days"
Slovenia	SCQ-06C	D	Gang punched to "5 days"
Ukraine	SCQ-06C	D	National options recoded for international comparability: 1 = 6 days 2 = Option not administered or data not available 3 = 5 days 4 = Option not administered or data not available 5 = Option not administered or data not available 6 = Other

SCQ-12BA-BB**Question:**

To what degree is each of the following a problem among teachers in your school?
 A: Arriving late or leaving early
 B: Absenteeism
 1 = Not a problem
 2 = Minor problem
 3 = Moderate problem
 4 = Serious problem

Variable Name(s): BCBG12BA, BCBG12BB

Country	Item ID	Code	Documentation
New Zealand	SCQ-12BA-BB	X	Question not administered or data not available

SCQ-15A-B**Question:**

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

A: Mathematics

B: Science

1 = Were no vacancies in this subject

2 = Easy to fill vacancies

3 = Somewhat difficult

4 = Very difficult

Variable Name(s): BCBG15A, BCBG15B

Country	Item ID	Code	Documentation
Hungary	SCQ-15B	X	Option not administered or data not available

SCQ-16A-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): BCBG16A, BCBG16B, BCBG16C

Country	Item ID	Code	Documentation
Hungary	SCQ-16B	D	Biology / Chemistry / Physics / Earth Science
Italy	SCQ-16A-C	X	Question not administered or data not available

SCQ-17A-M**Question:**

During the past year, approximately how much time have you spent on the following school leadership activities in your role as a school principal?

- A: Promoting the school's educational vision or goals
- B: Developing the school's curricular and educational goals
- C: Monitoring teachers' implementation of the school's educational goals in their teaching
- D: Monitoring students' learning progress to ensure that the school's educational goals are reached
- E: Keeping an orderly atmosphere in the school
- F: Ensuring that there are clear rules for student behavior
- G: Addressing disruptive student behavior
- H: Creating a climate of trust among teachers
- I: Initiating a discussion to help teachers who have problems in the classroom
- J: Advising teachers who have questions or problems with their teaching
- K: Visiting other schools or attending educational conferences for new ideas
- L: Initiating educational projects or improvements
- M: Participating in professional development activities specifically for school principals

1 = No time

2 = Some time

3 = A lot of time

Variable Name(s): BCBG17A, BCBG17B, BCBG17C, BCBG17D, BCBG17E, BCBG17F, BCBG17G, BCBG17H, BCBG17I, BCBG17J, BCBG17K, BCBG17L, BCBG17M

Country	Item ID	Code	Documentation
Ghana	SCQ-17A-M	D	Stem of the question changed: During the past year, approximately how much time have you spent on the following school leadership activities in your role as a head teacher?



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



**BOSTON
COLLEGE**

ISBN: 978-1-889938-13-4



timss.bc.edu

Copyright © 2012 International Association for the
Evaluation of Educational Achievement (IEA)