

**Trends in International Mathematics and  
Science Study (TIMSS 2023)  
Field Test Data Collection and Main  
Study Sampling and Recruitment - FT  
International Questionnaire Update  
OMB #1850-0695 v.18**

**Appendix C  
TIMSS 2023 Draft Field Test Questionnaires**

**Submitted by  
National Center for Education Statistics  
U.S. Department of Education**

**June 2021  
revised August 2021  
revised November 2021**

This appendix provides the final international TIMSS 2023 field test questionnaires. Final U.S. field test questionnaires, adapted for use within the U.S. education context and approved by IEA, will be provided via change memo in January 2022.

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Identification Label

TRENDS IN INTERNATIONAL MATHEMATICS AND SCIENCE STUDY

# Student Questionnaire

<Grade 4>

<TIMSS National Research Center Name>  
<Address>

A line graph with five data points connected by a black line. The points are blue circles with white outlines. The graph is positioned on a background of horizontal light blue lines.

Point	Approximate Value
1	1.5
2	2.5
3	1.5
4	2.0
5	2.5

Field Test  
Version

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# Directions

In this booklet, you will find questions about you and what you think. For each question, you should choose the answer you think is best.

Let us take a few minutes to practice the kinds of questions you will answer in this booklet.

Example 1 is one kind of question you will find in this booklet.

## Example 1

---

Do you go to school?

*Fill one circle only.*

Yes -- A

No -- A

Example 2 is another kind of question you will find in this booklet.

## Example 2

---

How often do you do these things?

*Fill one circle for each line.*

	Every day or almost every day	Once or twice a week	Once or twice a month	Never or almost never
a) I talk with my friends .....	A	A	A	A
b) I play sports .....	A	A	A	A
c) I ride a skateboard .....	A	A	A	A

Example 3 is another kind of question you will find in this booklet.

## Example 3

---

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

Fill **one** circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) Watching movies is fun .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) Ice cream tastes good .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) Waking up early is difficult .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) I enjoy doing chores .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

- Read each question carefully, and pick the answer you think is best.
- Fill in the circle next to or under your answer.
- If you decide to change your answer, draw an **X** through your first answer, like this: ~~A~~. Then, fill in the circle next to or under your new answer.
- Ask for help if you do not understand something or are not sure how to answer.

# About You

## G1

---

Which of these describes you?

*Fill one circle only.*

Girl -- A

Boy -- A

<Other> -- A

## G2

---

When were you born?

*Fill the circles next to the month and year you were born.*

**a) Month**

**b) Year**

January -- A

2010 -- A

February -- A

2011 -- A

March -- A

2012 -- A

April -- A

2013 -- A

May -- A

2014 -- A

June -- A

2015 -- A

July -- A

2016 -- A

August -- A

Other -- A

September -- A

October -- A

November -- A

December -- A

# G3

---

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

*Fill one circle only.*

I always speak  
<language of test> at home -- A

I almost always speak  
<language of test> at home -- A

I sometimes speak <language  
of test> and sometimes speak  
another language at home -- A

I never speak <language  
of test> at home -- A



# G4

---

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

Fill **one** circle only.

None or very few (0–10 books) -- A

This shows 10 books



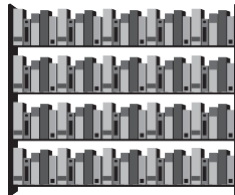
Enough to fill one shelf (11–25 books) -- A

This shows 25 books



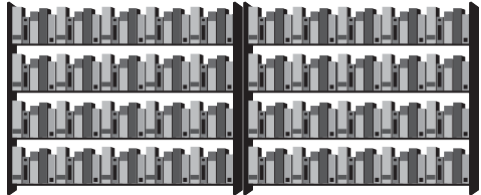
Enough to fill one bookcase  
(26–100 books) -- A

This shows 100 books



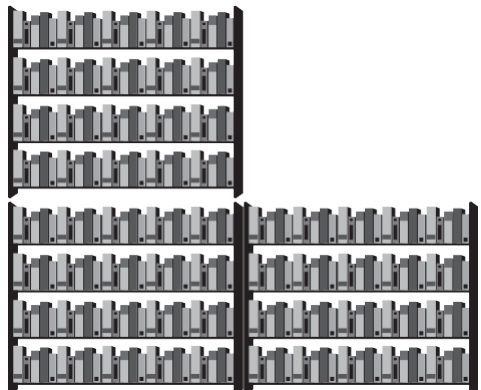
Enough to fill two bookcases  
(101–200 books) -- A

This shows 200 books



Enough to fill three or more bookcases  
(more than 200) -- A

This shows more than 200 books



# G5

Do you have any of these things at your home?

Fill **one** circle for each line.

	Yes ↓	No ↓
a) Your own computer or tablet -----	A <input checked="" type="radio"/>	A <input type="radio"/>
b) A shared computer or tablet you can use -----	A <input type="radio"/>	A <input checked="" type="radio"/>
c) Your own smartphone-----	A <input checked="" type="radio"/>	A <input type="radio"/>
d) A shared smartphone you can use -----	A <input type="radio"/>	A <input checked="" type="radio"/>
e) Access to the internet -----	A <input type="radio"/>	A <input checked="" type="radio"/>
f) Study desk/table for your use-----	A <input type="radio"/>	A <input checked="" type="radio"/>
g) Your own room -----	A <input type="radio"/>	A <input checked="" type="radio"/>
h) <country-specific indicator of wealth> -----	A <input type="radio"/>	A <input checked="" type="radio"/>
i) <country-specific indicator of wealth> -----	A <input type="radio"/>	A <input checked="" type="radio"/>
j) <country-specific indicator of wealth> -----	A <input type="radio"/>	A <input checked="" type="radio"/>
k) <country-specific indicator of wealth> -----	A <input type="radio"/>	A <input checked="" type="radio"/>

The following question is about your <Parent/Guardian A> and <Parent/Guardian B>. <If you have only one parent/guardian, answer for Parent/Guardian A. If you have two parents/guardians, choose one for Parent/Guardian A and the other for Parent/Guardian B.>

## **G6**

---

Were your <parents/guardians> born in <country>?

A. <Parent/Guardian A>

*Fill one circle only.*

Yes -- A

No -- A

I don't know -- A

Not applicable -- A

B. <Parent/Guardian B>

*Fill one circle only.*

Yes -- A

No -- A

I don't know -- A

Not applicable -- A

**G7**

---

Were you born in <country>?

*Fill **one** circle only.*

Yes --A

No --A

# G8

---

About how often are you absent from school?

*Fill one circle only.*

Once a week -- A

Once every two weeks -- A

Once a month -- A

Once every two months -- A

Never or almost never -- A

# G9

---

How often do you feel this way when you arrive at school?

*Fill one circle for each line.*

	Every day	Almost every day	Sometimes	Never
a) I feel tired .....	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
b) I feel hungry .....	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A

# G10

How much do you agree with these statements?

Fill **one** circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I can write and edit text on a computer, tablet, or smartphone	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) I can create school presentations using a computer, tablet, or smartphone	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) I can create tables, charts, and graphs using a computer, tablet, or smartphone	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) I can find information that I need online	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) I can tell if a website is trustworthy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) I can easily do new things on computers, laptops, or smartphones	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) I can help my friends or family members with using their computers, laptops, or smartphones	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

# Your School

## G11

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

Fill **one** circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I like being in school .....	A	A	A	A
b) I feel safe when I am at school .....	A	A	A	A
c) I feel like I belong at this school .....	A	A	A	A
d) Teachers at this school care about me .....	A	A	A	A
e) I am proud to go to this school .....	A	A	A	A
f) I have friends at this school .....	A	A	A	A
g) Students in this school respect me .....	A	A	A	A
h) Students at this school like me the way I am .....	A	A	A	A

# G12

During this school year, how often have other students from your school done any of the following things to you in person, through messaging, or through social media?

Fill **one** circle for each line.

	At least once a week	Once or twice a month	A few times a year	Never
a) Made fun of me or called me names .....	A	A	A	A
b) Left me out of their games or activities .....	A	A	A	A
c) Spread lies about me .....	A	A	A	A
d) Stole something from me .....	A	A	A	A
e) Damaged something of mine on purpose .....	A	A	A	A
f) Hit or hurt me (e.g., shoving, hitting, kicking) .....	A	A	A	A
g) Made me do things I didn't want to do .....	A	A	A	A
h) Sent me nasty or hurtful messages online .....	A	A	A	A
i) Shared nasty or hurtful things about me online .....	A	A	A	A
j) Shared embarrassing photos of me online .....	A	A	A	A
k) Threatened me .....	A	A	A	A



# Mathematics in School

## MS1

---

**In mathematics lessons, how often do you work on problems on your own?**

*Fill **one** circle only.*

Every or almost every lesson -- **A**

About half the lessons -- **A**

Some lessons -- **A**

Never -- **A**

# MS2

---

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

Fill **one** circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I enjoy learning mathematics -----	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
b) I do not like doing mathematics ----	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
c) Mathematics is boring -----	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
d) I learn many interesting things in mathematics -----	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
e) I like mathematics -----	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
f) I like any schoolwork that involves numbers -----	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
g) I like to solve mathematics problems -----	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
h) I look forward to mathematics lessons -----	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
i) Mathematics is one of my favorite subjects -----	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A

# MS3

---

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

Fill **one** circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) My teacher makes it clear what we should learn in each lesson -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) My teacher is easy to understand --	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) My teacher has clear answers to my questions -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) My teacher is good at explaining mathematics -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) My teacher does a variety of things to help us learn -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) My teacher explains a topic again when we don't understand ---	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) My teacher gives me helpful feedback on my work -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h) My teacher asks me to show what I have learned -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i) My teacher asks me to explain my answers -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

# MS4

---

How often do these things happen in your mathematics lessons?

Fill **one** circle for each line.

	Every or almost every lesson	About half the lessons	Some lessons	Never
a) Students don't listen to what the teacher says .....	↓	↓	↓	↓
	A	A	A	A
b) There is too much noise for students to work well .....	A	A	A	A
c) My teacher has to wait a long time for students to be quiet .....	A	A	A	A
d) Students interrupt the teacher .....	A	A	A	A
e) Students do not follow the classroom rules .....	A	A	A	A
f) Other students' behavior makes it hard for me to concentrate .....	A	A	A	A

# MS5

---

How much do you agree with these statements about mathematics?

Fill **one** circle for each line.

- |  | Agree<br>a lot        | Agree<br>a little     | Disagree<br>a little  | Disagree<br>a lot     |
|--|-----------------------|-----------------------|-----------------------|-----------------------|
| a) I usually do well in mathematics ---                                | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| b) Mathematics is harder for me<br>than for many of my classmates ---- | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| c) I am just not good at mathematics -                                 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| d) Mathematics is easy for me-----                                     | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| e) I am good at working out difficult<br>mathematics problems .....    | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| f) I am good at explaining<br>mathematics to others .....              | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| g) Mathematics is harder for me<br>than any other subject .....        | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| h) Mathematics makes me confused---                                    | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

# Science in School

## MS6

---

**In science lessons, how often does your teacher ask you to conduct science experiments?**

*Fill **one** circle only.*

At least once a week -- A

Once or twice a month -- A

A few times a year -- A

Never -- A

# MS7

---

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

Fill **one** circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I enjoy learning science .....	A	A	A	A
b) I do not like doing science .....	A	A	A	A
c) Science is boring .....	A	A	A	A
d) I learn many interesting things in science .....	A	A	A	A
e) I like science .....	A	A	A	A
f) I look forward to learning science in school .....	A	A	A	A
g) Science teaches me how things in the world work .....	A	A	A	A
h) I like to do science experiments ----	A	A	A	A
i) Science is one of my favorite subjects .....	A	A	A	A

# MS8

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

Fill **one** circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) My teacher makes it clear what we should learn in each lesson-----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) My teacher is easy to understand---	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) My teacher has clear answers to my questions .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) My teacher is good at explaining science .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) My teacher does a variety of things to help us learn .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) My teacher explains a topic again when we don't understand ---	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) My teacher gives me helpful feedback on my work .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h) My teacher asks me to show what I have learned .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i) My teacher asks me to explain my answers .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



# MS9

---

## How often do these things happen in your science lessons?

Fill **one** circle for each line.

	Every or almost every lesson	About half the lessons	Some lessons	Never
a) Students don't listen to what the teacher says .....	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
b) There is too much noise for students to work well .....	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
c) My teacher has to wait a long time for students to be quiet .....	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
d) Students interrupt the teacher .....	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
e) Students do not follow the classroom rules .....	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
f) Other students' behavior makes it hard for me to concentrate .....	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A

# MS10

---

How much do you agree with these statements about science?

Fill **one** circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I usually do well in science .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) Science is harder for me than for many of my classmates ----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) I am just not good at science .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) Science is easy for me.....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) I am good at explaining science to others .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) Science is harder for me than any other subject .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) Science makes me confused .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



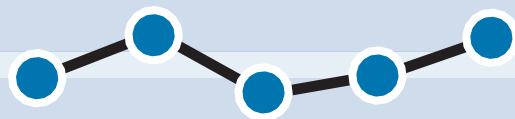
**Thank You!**

**Thank you for filling out the questionnaire!**



BOSTON  
COLLEGE

[timss.bc.edu](http://timss.bc.edu)



<Grade 4>



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International Association  
for the Evaluation of  
Educational Achievement



Identification Label

TRENDS IN INTERNATIONAL MATHEMATICS AND SCIENCE STUDY

# Student Questionnaire

<Grade 8>

<TIMSS National Research Center Name>  
<Address>

Blank lined area for student information, including a line graph with five data points.

Field Test Version

Blank lined area for student information.



# Directions

In this booklet, you will find questions about yourself. Some questions ask for facts while other questions ask for your opinion.

Each question is followed by a number of answers. Shade in the circle next to or under the answer of your choice as shown in Examples 1, 2, and 3.

## Example 1

Do you go to school?

*Fill one circle only.*

Yes --  A

No -- A

## Example 2

How often do you do these things?

*Fill one circle for each line.*

	Every day or almost every day	Once or twice a week	Once or twice a month	Never or almost never
a) I talk with my friends .....	<input checked="" type="radio"/> A	A	A	A
b) I play sports .....	A	<input checked="" type="radio"/> A	A	A
c) I ride a skateboard .....	A	A	<input checked="" type="radio"/> A	A

## Example 3

---

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

Fill *one* circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) Watching movies is fun -----	A	<input checked="" type="radio"/>	A	A
b) Ice cream tastes good -----	<input checked="" type="radio"/>	A	A	A
c) Waking up early is difficult -----	A	A	<input checked="" type="radio"/>	A
d) I enjoy doing chores -----	A	A	A	<input checked="" type="radio"/>

- Read each question carefully, and pick the answer you think is best.
- Fill in the circle next to or under your answer.
- If you decide to change your answer, draw an **X** through your first answer, like this: ~~X~~. Then, fill in the circle next to or under your new answer.
- Ask for help if you do not understand something or are not sure how to answer.

# About You

1

---

Which of these describes you?

*Fill **one** circle only.*

Girl -- A

Boy -- A

<Other> -- A

2

---

When were you born?

*Fill the circles next to the month and year you were born.*

**a) Month**

**b) Year**

January -- A

2005 -- A

February -- A

2006 -- A

March -- A

2007 -- A

April -- A

2008 -- A

May -- A

2009 -- A

June -- A

2010 -- A

July -- A

2011 -- A

August -- A

2012 -- A

September -- A

2013 -- A

October -- A

Other -- A

November -- A

December -- A



**3**

---

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

*Fill one circle only.*

Always -- A

Almost always -- A

Sometimes -- A

Never -- A

**4**

---

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

*Fill one circle only.*

None or very few (0–  
10 books) -- A

Enough to fill one shelf  
(11–25 books) -- A

Enough to fill one bookcase  
(26–100 books) -- A

Enough to fill two bookcases  
(101–200 books) -- A

Enough to fill three or more bookcases  
(more than 200) -- A

# 2

---

## Do you have any of these things at your home?

Fill **one** circle for each line.

- |   | Yes                                | No                      |
|---|------------------------------------|-------------------------|
|   | ↓                                  | ↓                       |
| a) Your own computer or tablet -----                | A <input checked="" type="radio"/> | A <input type="radio"/> |
| b) A shared computer or tablet you<br>can use ----- | A <input type="radio"/>            | A <input type="radio"/> |
| c) Your own smartphone-----                         | A <input checked="" type="radio"/> | A <input type="radio"/> |
| d) A shared smartphone you<br>can use -----         | A <input type="radio"/>            | A <input type="radio"/> |
| e) Access to the internet -----                     | A <input type="radio"/>            | A <input type="radio"/> |
| f) Study desk/table for your use-----               | A <input type="radio"/>            | A <input type="radio"/> |
| g) Your own room -----                              | A <input type="radio"/>            | A <input type="radio"/> |
| h) <country-specific indicator of<br>wealth> -----  | A <input type="radio"/>            | A <input type="radio"/> |
| i) <country-specific indicator of<br>wealth> -----  | A <input type="radio"/>            | A <input type="radio"/> |
| j) <country-specific indicator of<br>wealth> -----  | A <input type="radio"/>            | A <input type="radio"/> |
| k) <country-specific indicator of<br>wealth> -----  | A <input type="radio"/>            | A <input type="radio"/> |

The following questions are about your <Parent/Guardian A> and <Parent/Guardian B>. <If you have only one parent/guardian, answer for Parent/Guardian A. If you have two parents/guardians, choose one for Parent/Guardian A and the other for Parent/Guardian B.>

## 6

What is the highest level of education completed by your <parents/guardians>?

Check **one** circle in each column.

	<u>&lt;Parent / Guardian A&gt;</u>	<u>&lt;Parent / Guardian B&gt;</u>
Some <Primary education— ISCED Level 1 or Lower secondary education—ISCED Level 2> or did not go to school -----	A	A
<Lower secondary education—ISCED Level 2> -----	A	A
<Upper secondary education—ISCED Level 3> -----	A	A
<Post-secondary, non-tertiary education—ISCED Level 4> -----	A	A
<Short-cycle tertiary education—ISCED Level 5> -----	A	A
<Bachelor’s or equivalent level—ISCED Level 6> -----	A	A
<Postgraduate degree: Master’s— ISCED Level 7 or Doctor—ISCED Level 8> -----	A	A
I don’t know -----	A	A
Not applicable -----	A	A

# 7

---

## How far in your education do you expect to go?

*Fill one circle only.*

Finish <Lower secondary education—  
ISCED Level 2> ----- A

Finish <Upper secondary education—  
ISCED Level 3> ----- A

Finish <Post-secondary, non-tertiary education—  
ISCED Level 4> ----- A

Finish <Short-cycle tertiary education—  
ISCED Level 5> ----- A

Finish <Bachelor's or equivalent  
level—ISCED Level 6>----- A

Finish <Postgraduate degree:  
Master's—ISCED Level 7 or  
Doctor—ISCED Level 8>----- A

# 8

---

## Were your <parents/guardians> born in <country>?

### A. <Parent/Guardian A>

*Fill one circle only.*

Yes -- A

No -- A

I don't know -- A

Not applicable -- A

### B. <Parent/Guardian B>

*Fill **one** circle only.*

Yes -- A

No -- A

I don't know -- A

Not applicable -- A



# 9

---

A. Were you born in <country>?

*Fill one circle only.*

Yes -- A

(If Yes, go to #10)

No -- A

**If No,**

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

*Fill one circle only.*

Older than 10 years old -- A

5 to 10 years old -- A Younger

than 5 years old -- A

# 10

---

About how often are you absent from school?

*Fill one circle only.*

Once a week -- A

Once every two weeks -- A

Once a month -- A

Once every two months -- A

Never or almost never -- A

# 11

---

How often do you feel this way when you arrive at school?

Fill **one** circle for each line.

	Every day	Almost every day	Sometimes	Never
a) I feel tired .....	A	A	A	A
b) I feel hungry .....	A	A	A	A

# 12

---

How often do you use the internet to do the following tasks for mathematics or science schoolwork (including classroom tasks, homework, and studying outside of class)?

Fill **one** circle for each line.

	At least once a week	Once or twice a month	Never or almost never
a) Access the textbook or other course materials .....	A	A	A
b) Access assignments posted online by my teacher .....	A	A	A
c) Collaborate with classmates on assignments or projects .....	A	A	A
d) Ask my teacher questions .....	A	A	A
e) Find information, articles, or tutorials about mathematics or science .....	A	A	A
f) Access learning games or activities related to mathematics or science .....	A	A	A



# 13

---

## How much do you agree with these statements?

Fill **one** circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I can write and edit text on a computer, tablet, or smartphone .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) I can create school presentations using a computer, tablet, or smartphone .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) I can create tables, charts, and graphs using a computer, tablet, or smartphone .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) I can find information that I need online .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) I can tell if a website is trustworthy .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) I can easily do new things on computers, laptops, or smartphones .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) I can help my friends or family members with using their computers, laptops, or smartphones .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

# Your School

## 14

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

Fill **one** circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I like being in school .....	A	A	A	A
b) I feel safe when I am at school .....	A	A	A	A
c) I feel like I belong at this school ....	A	A	A	A
d) Teachers at this school care about me .....	A	A	A	A
e) I am proud to go to this school .....	A	A	A	A
f) I have friends at this school .....	A	A	A	A
g) Students in this school respect me .....	A	A	A	A
h) Students at this school like me the way I am .....	A	A	A	A

**During this school year, how often have other students from your school done any of the following things to you in person, through messaging, or through social media?**

*Fill one circle for each line.*

	At least once a week	Once or twice a month	A few times a year	Never
a) Said mean things about my physical appearance (e.g., my hair, my size) -----	▼ A	▼ A	▼ A	▼ A
b) Spread lies about me -----	A	A	A	A
c) Shared my secrets with others -----	A	A	A	A
d) Refused to talk to me -----	A	A	A	A
e) Said hurtful things to or about me because of my cultural background (e.g., <race, ethnicity, religion>)-----	A	A	A	A
f) Stole something from me -----	A	A	A	A
g) Made me do things I didn't want to do -----	A	A	A	A
h) Sent me nasty or hurtful messages online -----	A	A	A	A
i) Shared nasty or hurtful things about me online -----	A	A	A	A
j) Shared embarrassing photos of me online -----	A	A	A	A
k) Threatened me -----	A	A	A	A
l) Physically hurt me -----	A	A	A	A
m) Excluded me from their group (e.g., parties, messaging) -----	A	A	A	A

n) Damaged something of  
mine on purpose ..... A — A — A — A

## 16

---

**In mathematics lessons, how often do you work on problems on your own?**

*Fill **one** circle only.*

Every or almost every lesson -- A

About half the lessons -- A

Some lessons -- A

Never -- A



**How much do you agree with these statements about learning mathematics?**

*Fill **one** circle for each line.*

	Agree a lot		Agree a little		Disagree a little		Disagree a lot
	↓		↓		↓		↓
a) I enjoy learning mathematics .....	A	_____	A	_____	A	_____	A
b) I do not like doing mathematics ----	A	_____	A	_____	A	_____	A
c) Mathematics is boring .....	A	_____	A	_____	A	_____	A
d) I learn many interesting things in mathematics .....	A	_____	A	_____	A	_____	A
e) I like mathematics .....	A	_____	A	_____	A	_____	A
f) I like any schoolwork that involves numbers .....	A	_____	A	_____	A	_____	A
g) I like to solve mathematics problems .....	A	_____	A	_____	A	_____	A
h) I look forward to mathematics class .....	A	_____	A	_____	A	_____	A
i) Mathematics is one of my favorite subjects .....	A	_____	A	_____	A	_____	A

# 18

---

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

*Fill **one** circle for each line.*

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) My teacher makes it clear what we should learn in each lesson-----	↓ A	↓ A	↓ A	↓ A
b) My teacher is easy to understand --	A	A	A	A
c) My teacher has clear answers to my questions -----	A	A	A	A
d) My teacher is good at explaining mathematics -----	A	A	A	A
e) My teacher does a variety of things to help us learn -----	A	A	A	A
f) My teacher explains a topic again when we don't understand ---	A	A	A	A
g) My teacher gives me helpful feedback on my work -----	A	A	A	A
h) My teacher asks me to show what I have learned -----	A	A	A	A
i) My teacher asks me to explain my answers -----	A	A	A	A
j) My teacher asks us to apply what we have learned in new situations -----	A	A	A	A



# 19

---

## How often do these things happen in your mathematics lessons?

Fill **one** circle for each line.

	Every or almost every lesson	About half the lessons	Some lessons	Never
a) Students don't listen to what the teacher says .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) There is too much noise for students to work well .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) My teacher has to wait a long time for students to be quiet .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) Students interrupt the teacher .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) Students do not follow the classroom rules .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) Other students' behavior makes it hard for me to concentrate .....	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

# 20

---

## How much do you agree with these statements about mathematics?

Fill **one** circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I usually do well in mathematics ---	↓ A	↓ A	↓ A	↓ A
b) Mathematics is harder for me than for many of my classmates ----	A	A	A	A
c) Mathematics is not one of my strengths .....	A	A	A	A
d) Mathematics is easy for me-----	A	A	A	A
e) I am good at working out difficult mathematics problems .....	A	A	A	A
f) I am good at explaining mathematics to others .....	A	A	A	A
g) Mathematics is harder for me than any other subject .....	A	A	A	A
h) Mathematics makes me confused---	A	A	A	A

**How much do you agree with these statements about mathematics?**

Fill **one** circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I think learning mathematics will help me in my daily life .....	↓ A	↓ A	↓ A	↓ A
b) I need mathematics to learn other school subjects .....	A	A	A	A
c) I need to do well in mathematics to get into the <university> of my choice .....	A	A	A	A
d) I need to do well in mathematics to get the job I want .....	A	A	A	A
e) I would like a job that involves using mathematics .....	A	A	A	A
f) It is important to learn about mathematics to get ahead in the world .....	A	A	A	A
g) Learning mathematics will give me more job opportunities when I am an adult .....	A	A	A	A
h) My parents think that it is important that I do well in mathematics .....	A	A	A	A
i) It is important to do well in mathematics .....	A	A	A	A

22

---

**In science lessons, how often does your teacher ask you to conduct science experiments?**

*Fill **one** circle only.*

At least once a week -- A

Once or twice a month -- A

A few times a year -- A

Never -- A



# 23

---

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

Fill **one** circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I enjoy learning science .....	A	A	A	A
b) I do not like doing science .....	A	A	A	A
c) Science is boring .....	A	A	A	A
d) I learn many interesting things in science .....	A	A	A	A
e) I like science .....	A	A	A	A
f) I look forward to learning science in school .....	A	A	A	A
g) Science teaches me how things in the world work .....	A	A	A	A
h) I like to conduct science experiments .....	A	A	A	A
i) Science is one of my favorite subjects .....	A	A	A	A



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

*Fill **one** circle for each line.*

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) My teacher makes it clear what we should learn in each lesson-----	↓ A	↓ A	↓ A	↓ A
b) My teacher is easy to understand --	A	A	A	A
c) My teacher has clear answers to my questions -----	A	A	A	A
d) My teacher is good at explaining science -----	A	A	A	A
e) My teacher does a variety of things to help us learn -----	A	A	A	A
f) My teacher explains a topic again when we don't understand ---	A	A	A	A
g) My teacher gives me helpful feedback on my work -----	A	A	A	A
h) My teacher asks me to show what I have learned -----	A	A	A	A
i) My teacher asks me to explain my answers -----	A	A	A	A
j) My teacher asks us to apply what we have learned in new situations -----	A	A	A	A



**How often do these things happen in your science lessons?**

*Fill one circle for each line.*

	Every or almost every lesson	About half the lessons	Some lessons	Never
a) Students don't listen to what the teacher says .....	↓ A	↓ A	↓ A	↓ A
b) There is too much noise for students to work well .....	A	A	A	A
c) My teacher has to wait a long time for students to be quiet .....	A	A	A	A
d) Students interrupt the teacher .....	A	A	A	A
e) Students do not follow the classroom rules .....	A	A	A	A
f) Other students' behavior makes it hard for me to concentrate .....	A	A	A	A

# 26

---

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

Fill **one** circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I usually do well in science .....	A	A	A	A
b) Science is more difficult for me than for many of my classmates ----	A	A	A	A
c) Science is not one of my strengths .....	A	A	A	A
d) Science is easy for me.....	A	A	A	A
e) I am good at working out difficult science problems .....	A	A	A	A
f) I am good at explaining science to others .....	A	A	A	A
g) Science is harder for me than any other subject .....	A	A	A	A
h) Science makes me confused .....	A	A	A	A

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

*Fill **one** circle for each line.*

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I think learning science will help me in my daily life .....	↓ A	↓ A	↓ A	↓ A
b) I need science to learn other school subjects .....	A	A	A	A
c) I need to do well in science to get into the <university> of my choice -	A	A	A	A
d) I need to do well in science to get the job I want .....	A	A	A	A
e) I would like a job that involves using science .....	A	A	A	A
f) It is important to learn about science to get ahead in the world .....	A	A	A	A
g) Learning science will give me more job opportunities when I am an adult .....	A	A	A	A
h) My parents think that it is important that I do well in science .....	A	A	A	A
i) It is important to do well in science .....	A	A	A	A

# Homework

## 28

---

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

*Fill one circle for each line.*

	Every day	3 or 4 times a week	1 or 2 times a week	Less than once a week	Never
a) Mathematics	.....A	.....A	.....A	.....A	.....A
b) Science	.....A	.....A	.....A	.....A	.....A



**Thank You!**

**Thank you for filling out the questionnaire!**



BOSTON  
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<Grade 8>



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Identification Label

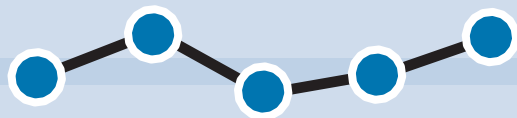
TRENDS IN INTERNATIONAL MATHEMATICS AND SCIENCE STUDY

# Teacher Questionnaire

<Grade 4>

<TIMSS National Research Center Name>  
<Address>

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Field Test Version

Online Administration

Three horizontal blue bars



# Teacher Questionnaire

Your school has agreed to participate in TIMSS 2023 (Trends in International Mathematics and Science Study), an educational research project sponsored by the International Association for the Evaluation of Educational Achievement (IEA). TIMSS measures trends in student achievement in mathematics and science and studies differences in national education systems in almost 60 countries in order to help improve teaching and learning worldwide.

This questionnaire is addressed to teachers of <fourth grade> students, and seeks information about teachers' academic and professional backgrounds, classroom resources, instructional practices, and attitudes toward teaching. Since your class has been selected as part of a nationwide sample, your responses are very important in helping to describe primary/elementary education in <country>.

Some of the questions in the questionnaire refer to the “**TIMSS class**” or “**this class**”. This is the class that is identified on the front of this booklet, and which will be tested as part of TIMSS in your school. If you teach some but not all of the students in the TIMSS class, please think only of the students that you teach when answering these class-specific questions. It is important that you answer each question carefully so that the information that you provide reflects your situation as accurately as possible.

Since TIMSS is an international study and all countries are using the same questionnaire, you may find that some of the questions seem unusual or are not entirely relevant to you or schools in <country>. Nevertheless, it is important that you do your best to answer all of the questions so comparisons can be made across countries in the studies.

It is estimated that you will need approximately 35 minutes to complete this questionnaire. We appreciate the time and effort that this takes and thank you for your cooperation and contribution.

# TIMSS 2023



To access this questionnaire online, please copy the following link into the address bar of your Web browser:

<Insert LINK>

All necessary teacher login information (Subject Code, ID, and Password) is provided on the identification label located on the cover. “Teacher ID” is your ID and “Checksum” is your password.

You may exit the questionnaire at any time and log in again later—all of your responses will be saved automatically.

If you have problems accessing this online questionnaire or are in need of assistance (e.g., you would prefer to complete a paper copy of the questionnaire, questions related to a subject that you do not teach to the <TIMSS> class are displayed), please contact:

<Insert country-specific information here>.

# Thank You

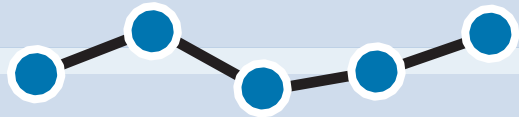
**Thank you for the thought, time, and effort you have put into completing this questionnaire.**



BOSTON  
COLLEGE

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<Grade 4>



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Educational Achievement



Identification Label

TRENDS IN INTERNATIONAL MATHEMATICS AND SCIENCE STUDY

# Teacher Questionnaire

<Grade 4>

<TIMSS National Research Center Name>  
<Address>

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Field Test Version

Blank lined area.



# Teacher Questionnaire

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When you have completed the questionnaire, please place it in the accompanying envelope and return it to:

<Insert country-specific information here>.

Thank you.

# TIMSS 2023

# About You

## G1

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

\_\_\_\_\_ years  
Please round to the nearest whole number.

## G2

Which of these describes you?

Check one circle only.

Female --- A

Male --- A

<Other > ---- A

## G3

How old are you?

Check one circle only.

Under 25-----A

25-29 -- A

30-39 -- A

40-49 -- A

50-59 -- A

60 or more -----A

## G4

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

Check one circle only.

Did not complete <Upper secondary education–  
ISCED Level 3> --- A

<Upper secondary education–  
ISCED Level 3> --- A

(If you have not completed  
<post-secondary or tertiary  
education>, go to #G6)

<Post-secondary, non-tertiary education–  
ISCED Level 4> --- A

<Short-cycle tertiary education–  
ISCED Level 5> --- A

<Bachelor's or equivalent level–  
ISCED Level 6> --- A

<Master's or equivalent level–  
ISCED Level 7> --- A

<Doctor or equivalent level–  
ISCED Level 8> --- A

## G5

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

Check one circle for each line.

Yes \_\_\_\_\_

No \_\_\_\_\_

a) Education–Primary/Elementary ..... A –A

b) Education–Secondary ..... A –A

c) Mathematics----- A –A

d) Science----- A –A

e) <language of test> ..... A –A

f) Other ..... A –A

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

Check one circle for each line.

Yes \_\_\_\_\_

No \_\_\_\_\_

a) Mathematics----- A –A

b) Science ..... A – A

c) Language/reading ..... A – A

d) Other subject ..... A – A

## School Emphasis on Academic Success

G6

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

Check *one* circle for each line.

- |  | Very high             | High                  | Medium                | Low                   | Very low              |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| a) Teachers' understanding of the school's curricular goals            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| b) Teachers' degree of success in implementing the school's curriculum | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| c) Teachers' expectations for student achievement                      | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| d) Teachers' ability to inspire students                               | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| e) Parental involvement in school activities                           | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| f) Parental commitment to ensure that students are ready to learn      | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| g) Parental expectations for student achievement                       | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| h) Parental support for student achievement                            | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| i) Students' desire to do well in school                               | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| j) Students' ability to reach school's academic goals                  | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| k) Students' respect for classmates who excel academically             | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

## School Environment

G7

How much do you agree or disagree with the following statements about your current school?

Check *one* circle for each line.

- |   | Agree a lot           | Agree a little        | Disagree a little     | Disagree a lot        |
|---|-----------------------|-----------------------|-----------------------|-----------------------|
| a) I feel safe at this school                                       | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| b) This school's security policies and practices are sufficient     | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| c) The students behave in an orderly manner                         | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| d) The students are respectful of the teachers                      | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| e) The students respect school property                             | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| f) This school has clear rules about student conduct                | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| g) This school's rules are enforced in a fair and consistent manner | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

# About Being a Teacher

**G8**

How often do you have these feelings about being a teacher?

Check *one* circle for each line.

	Very often	Often	Sometimes	Never or almost never
a) I am content with my profession as a teacher .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
b) I find my work full of meaning and purpose .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
c) I am enthusiastic about my job .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
d) My work inspires me .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
e) I am proud of the work I do .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
f) I feel appreciated as a teacher .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
g) I enjoy the challenges of teaching .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A

**G9**

How much do you agree or disagree with the statements below?

Check *one* circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) There are too many students in the classes .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
b) I have too much material to cover in class .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
c) I have too many teaching hours .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
d) I need more time to prepare for class .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
e) I need more time to assist individual students .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
f) I feel too much pressure from parents .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
g) I have difficulty keeping up with all of the changes to the curriculum .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
h) I have too many administrative tasks .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A

**G10**

A. How many students are in this class?

\_\_\_\_\_ students  
Write in the number.

B. How many of the students in #G10A are in <fourth grade>?

\_\_\_\_\_ <fourth grade> students  
Write in the number.

**G11**

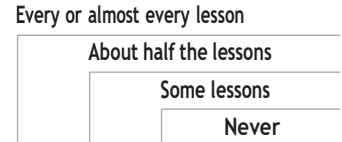
How many <fourth grade> students experience difficulties understanding spoken <language of test>?

\_\_\_\_\_ students in this class  
Write in the number.

**G12**

How often do you do the following in teaching this class?

Check **one** circle for each line.



- a) Relate the lesson to students' daily lives ..... A—A—A—A—
- b) Ask students to explain their answers ..... A—A—A—A—
- c) Communicate goals or objectives for the lesson to the students..... A—A—A—A—
- d) Ask students to complete challenging exercises that require them to go beyond the instruction ..... A—A—A—A—
- e) Encourage classroom discussions among students ..... A—A—A—A—
- f) Link new content to students' prior knowledge .... A—A—A—A—
- g) Ask students to decide their own problem solving procedures ..... A—A—A—A—
- h) Encourage students to express their ideas in class .... A—A—A—A—



**G13**

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

*Check one circle for each line.*

Not at all  
Some  
A lot

- a) Students lacking prerequisite knowledge or skills -----  A  A  A
- b) Students suffering from lack of basic nutrition -----  A  A  A
- c) Students suffering from not enough sleep -----  A  A  A
- d) Students absent from class -----  A  A  A
- e) Disruptive students -----  A  A  A
- f) Uninterested students -----  A  A  A
- g) Distracted students -----  A  A  A
- h) Students with mental, emotional, or psychological impairment -----  A  A  A
- i) Students with difficulties understanding the language of instruction -----  A  A  A

**M1**

In a typical week, how much time do you spend teaching mathematics to the students in this class?

\_\_\_\_\_ minutes per week  
 Write in the number of minutes per week.  
 Please convert the number of hours into minutes.

**M2**

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

Check one circle for each line.

Every or almost every lesson \_\_\_\_\_  
 About half the lessons \_\_\_\_\_  
 Some lessons \_\_\_\_\_  
 Never \_\_\_\_\_

- a) Listen to me explain new mathematics content ----- A —A A A
- b) Listen to me explain how to solve problems ----- A—A A A
- c) Memorize rules, procedures, and facts ----- A—A A A
- d) Practice procedures on their own ----- A—A A A
- e) Apply what they have learned to new problem situations on their own ----- A —A A A
- f) Work problems together in the whole class with direct guidance from me ----- A—A A A
- g) Work in mixed ability groups -- A —A A A
- h) Work in same ability groups -- A —A A A

# Using Calculators and Digital Devices for Teaching Mathematics to the TIMSS Class

**M3**

Are students in this class permitted to use calculators during mathematics lessons?

Check one circle only.

Yes, with unrestricted use --- A

Yes, with restricted use --- A


No --- A

**M4**

A. Do the students in this class have digital devices (including computers, tablets, or smartphones) available to use during mathematics lessons?

Check one circle only.

Yes --- A

No --- A   
(If No, go to #M5)

If Yes,

B. What access do the students have to digital devices?

Check one circle for each line.

	Yes	No
a) The class has digital devices for each student to use .....	<del>A</del>	A
b) The class has digital devices that students can share .....	<del>A</del>	A
c) The school has digital devices that the class can use sometimes .....	<del>A</del>	A
d) Students bring their own digital devices .....	<del>A</del>	A

C. How often do you have students use digital devices during mathematics instruction?

Check one circle only.

At least once a week --- A

Once or twice a month --- A

A few times a year --- A

Never or almost never --- A

D. How often do you ask the students in your class to use digital devices to do these mathematics activities?

Check one circle for each line.

	At least once a week	Once or twice a month	A few times a year	Never or almost never
a) Practice problems and procedures .....	<del>A</del>	<del>A</del>	<del>A</del>	<del>A</del>
b) Solve extended or contextualized problems .....	<del>A</del>	<del>A</del>	<del>A</del>	<del>A</del>
c) Create graphs, tables, or other data displays .....	<del>A</del>	<del>A</del>	<del>A</del>	<del>A</del>
d) Play games involving mathematics calculations or concepts .....	<del>A</del>	<del>A</del>	<del>A</del>	<del>A</del>
e) Read the textbook or watch instructional videos .....	<del>A</del>	<del>A</del>	<del>A</del>	<del>A</del>

**M5**

How much do each of these keep you from incorporating digital devices into mathematics instruction?

Check one circle for each line.

	Not at all	Somewhat	A lot
a) Not knowing how to use digital devices to improve student learning .....	<del>A</del>	<del>A</del>	<del>A</del>
b) Not enough access to digital devices .....	<del>A</del>	<del>A</del>	<del>A</del>
c) Keeping students on task when the class is using digital devices .....	<del>A</del>	<del>A</del>	<del>A</del>
d) Lack of technical support from the school .....	<del>A</del>	<del>A</del>	<del>A</del>

# Mathematics Topics Taught to the TIMSS Class

M6

The following list includes topics addressed by the TIMSS mathematics test. Choose the response that best describes when each topic is taught for students in this class.

If a topic was in the curriculum before <fourth grade>, choose “Mostly taught before this year”. If you have taught a topic this year, choose “Mostly taught this year”. If a topic is not in the <fourth grade> curriculum for this year or you have not yet taught a topic, choose “Not yet taught”.

Check one circle for each line.

Mostly taught before this year		
Mostly taught this year		
	Not yet taught	

## A. Number

- a) Recognize place value and order whole numbers ..... A  A  A
- b) Add and subtract up to 4-digit numbers ..... A  A  A
- c) Multiply up to 3-digit by 1-digit and 2-digit by 2-digit numbers ..... A  A  A
- d) Divide up to 3-digit by 1-digit numbers ..... A  A  A
- e) Solve problems with odd/even numbers, multiples, or factors ..... A  A  A
- f) Round or make estimations with whole numbers ..... A  A  A
- g) Find the missing number or operation in a number sentence ..... A  A  A
- h) Extend a number pattern or find the missing number in a pattern ..... A  A  A
- i) Represent, compare, and order fractions ..... A  A  A
- j) Add and subtract simple fractions ..... A  A  A
- k) Represent, compare, and order decimals up to two decimal places ..... A  A  A
- l) Add and subtract with decimals up to two decimal places ..... A  A  A

## B. Measurement and Geometry

- a) Measure, estimate, add, and subtract lengths ..... A  A  A
- b) Add and subtract mass, volume, or time in appropriate units ..... A  A  A
- c) Find perimeters of polygons ..... A  A  A
- d) Find areas of shapes covered with squares or volumes of shapes filled with cubes ..... A  A  A
- e) Recognize and draw parallel and perpendicular lines ..... A  A  A
- f) Compare and draw angles ..... A  A  A
- g) Describe and draw common two-dimensional shapes (e.g., circles, triangles, quadrilaterals) ..... A  A  A
- h) Describe and draw common three-dimensional shapes (e.g., cubes, rectangular solids, cones, cylinders, spheres) ..... A  A  A

## C. Data


- a) Read and interpret data displays ..... A  A  A
- b) Create or complete data displays ..... A  A  A

c) Draw conclusions from two or more data sources----- A—A A-

**M7**

**A. How often do you usually assign mathematics homework to the students in this class?**

*Check one circle only.*

I do not assign mathematics homework ... A    
(Go to #M8)

Less than once a week ... A

1 or 2 times a week ... A

3 or 4 times a week ... A

Every day ... A

**B. How often do you do the following with the mathematics homework assignments for this class?**

*Check one circle for each line.*

	Always or almost always	Sometimes	Never or almost never
a) Correct assignments and give feedback to students	A <input type="radio"/>	A <input checked="" type="radio"/>	A <input type="radio"/>
b) Discuss the homework in class	A <input type="radio"/>	A <input checked="" type="radio"/>	A <input type="radio"/>
c) Monitor whether or not the homework was completed	A <input type="radio"/>	A <input checked="" type="radio"/>	A <input type="radio"/>

**M8**

**How much importance do you place on these strategies to assess students' learning in mathematics?**

*Check one circle for each line.*

	A lot	Some	None
a) Observing students as they work	A <input type="radio"/>	A <input checked="" type="radio"/>	A <input type="radio"/>
b) Asking students to answer questions during class	A <input type="radio"/>	A <input checked="" type="radio"/>	A <input type="radio"/>
c) Short, regular written assessments	A <input type="radio"/>	A <input checked="" type="radio"/>	A <input type="radio"/>
d) Longer tests (e.g., unit tests or exams)	A <input type="radio"/>	A <input checked="" type="radio"/>	A <input type="radio"/>
e) Long-term projects	A <input type="radio"/>	A <input checked="" type="radio"/>	A <input type="radio"/>

**M9**

**About how often do <fourth grade> students in this class take mathematics tests on computers or tablets?**

*Check one circle only.*

More than once a month ... A

Once a month ... A

Twice a year ... A

Once a year ... A

Never ... A

## M10

**A. In the past two years, have you participated in professional development in any of the following?**

**B. Do you need future professional development in any of the following?**

*Check one circle for each line.*

*Check one circle for each line.*

	<u>Yes</u>	<u>No</u>	<u>Yes</u>	<u>No</u>
a) Mathematics content	A	A	A	A
b) Mathematics pedagogy/ instruction	A	A	A	A
c) Mathematics curriculum	A	A	A	A
d) Integrating technology into mathematics instruction	A	A	A	A
e) Improving students' critical thinking or problem solving skills	A	A	A	A
f) Mathematics assessment	A	A	A	A
g) Addressing individual students' needs	A	A	A	A

**S1**

**A. Is science taught mainly as a separate subject (i.e., not integrated with other subjects) to the students in this class?**

Check *one* circle only.

Yes --- A

No --- A

**B. Please estimate the time that you spend on science topics with students in this class.**

\_\_\_\_\_ minutes per week

Write in the number of minutes per week.

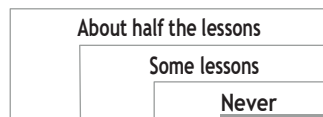
Please convert the number of hours into minutes.

**S2**

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

Check *one* circle for each line.

Every or almost every lesson



a) Listen to me explain new science content ..... A—A—A—A—

b) Observe natural phenomena such as the weather or a plant growing and describe what they see ..... A—A—A—A—

c) Watch me demonstrate an experiment or investigation --- A—A—A—A—

d) Read their textbooks or other resource materials ..... A—A—A—A—

e) Memorize facts and principles ..... A—A—A—A—

f) Do field work outside the class ..... A—A—A—A—

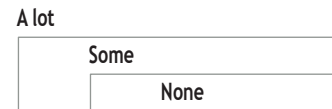
g) Work in mixed ability groups ..... A—A—A—A—

h) Work in same ability groups ..... A—A—A—A—

**S3**

**How much emphasis do you place on the following when teaching science to students in this class?**

Check *one* circle for each line.



a) Encouraging students to ask questions about scientific phenomena ..... A—A—A—

b) Having students predict the outcomes of experiments or investigations ..... A—A—A—

c) Having students create representations (e.g., models, graphs) to explain scientific phenomena ..... A—A—A—

d) Having students use scientific concepts to explain phenomena ..... A—A—A—



**A. How often do you provide opportunities for students to do the following when teaching this class?**

*Check one circle for each line.*

- Once a week or more \_\_\_\_\_
- Once or twice a month \_\_\_\_\_
- Once or twice every few months \_\_\_\_\_
- Never or almost never \_\_\_\_\_

- a) Experiments or investigations that are carried out in a single lesson ..... A—A —A —A—
- b) Experiments or investigations that are carried out over a series of lessons ..... A —A —A —A—
- c) Hands-on activities to explore science concepts ..... A—A —A —A—
- d) Experiments with a prescribed set of steps to answer a given question ..... A—A —A —A—
- e) Experiments where students determine their own procedures to answer a given question ..... A—A —A —A—

**B. How often do you go to a separate science laboratory when conducting experiments or investigations with students in this class?**


*Check one circle only.*

- Always or almost always --- A
- Sometimes --- A
- Never or almost never ----- A

## S5

**A. Do the students in this class have digital devices (including computers, tablets, or smartphones) available to use during science lessons?**

Check *one* circle only.

Yes --- A  
 No --- A  
 A   
 (If No, go to #S6)

**If Yes,**

**B. What access do the students have to digital devices?**

Check *one* circle for each line.

	Yes	No
a) The class has digital devices for each student to use .....	<input type="radio"/> A	<input type="radio"/> A
b) The class has digital devices that students can share .....	<input type="radio"/> A	<input type="radio"/> A
c) The school has digital devices that the class can use sometimes .....	<input type="radio"/> A	<input type="radio"/> A
d) Students bring their own digital devices .....	<input type="radio"/> A	<input type="radio"/> A

**C. How often do you have students use digital devices during science instruction?**

Check *one* circle only.

At least once a week --- A  
 Once or twice a month --- A  
 A few times a year --- A

**D. How often do you ask the students in your class to use digital devices to do these science activities?**

Check *one* circle for each line.

	At least once a week	Once or twice a month	A few times a year	Never or almost never
a) Solve extended or contextualized problems.....	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
b) Create graphs, tables, or other data displays .....	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
c) Play games involving science concepts .....	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
d) Conduct virtual experiments or other simulations.....	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
e) Read the textbook or watch instructional videos.....	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A

## S6

**How much do each of these keep you from incorporating digital devices into science instruction?**

Check *one* circle for each line.

	Not at all	Somewhat	A lot
a) Not knowing how to use digital devices to improve student learning.....	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
b) Not enough access to digital devices .....	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
c) Keeping students on task when the class is using digital devices .....	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
d) Lack of technical support from the school .....	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A

# Science Topics Taught to the TIMSS Class

S7

The following list includes topics and concepts addressed by the TIMSS science test. Choose the response that best describes when each topic or concept is taught for students in this class.

If a topic or concept was in the curriculum before <fourth grade>, choose “Mostly taught before this year”. If you have taught a topic this year, choose “Mostly taught this year”. If a topic is not in the <fourth grade> curriculum for this year or you have not yet taught a topic, choose “Not yet taught”.

Check one circle for each line.

Mostly taught before this year		
Mostly taught this year		Not yet taught

## A. Life Science

- a) Basic differences between living and nonliving things ..... A—A A—
- b) Defining characteristics of major groups of living things ..... A A— A—
- c) Functions of major structures in living things (e.g., roots in plants)..... A —A A—
- d) Life cycle stages of common plants and animals (e.g., flowering plants, frogs) ..... A —A A—
- e) Inherited characteristics of living things ..... A A A—
- f) How living things survive in their environments (e.g., physical characteristics, behaviors) ..... A —A A—
- g) How human actions impact the environment ..... A A A—
- h) Common ecosystems and their organisms (e.g., forest, desert) ..... A —A A—
- i) Interpreting simple food chains ..... A A A—
- j) Competition within ecosystems ..... A A A—
- k) Ways for humans to maintain good health and avoid illness ..... A—A A—

## B. Physical Science

- a) Solids, liquids, gases, and how their shapes and volumes differ ..... A A— A—
- b) Grouping objects based on their physical properties ..... A A— A—
- c) Examples of mixtures and how they can be separated (e.g., filtration, evaporation)..... A —A A—
- d) Magnetic attraction and repulsion ..... A A A—
- e) Examples of physical and chemical changes in everyday life ..... A A— A—
- f) How to make solids dissolve faster in liquids (e.g., stirring, heating) ..... A —A A—
- g) Concentration of solutions ..... A A A—
- h) Sources of energy (e.g., the Sun, wind, water, coal, oil, and gas)..... A —A A—
- i) How light is related to shadows, reflections, and rainbows ..... A A— A—
- j) How vibrations are related to sound ..... A A A—
- k) Movement of heat from hotter to cooler objects..... A A— A—

- l) Simple electrical circuits ..... A A A
- m) How motion is affected by forces (e.g., gravity, pushing, pulling, friction)..... A -A A-
- n) Examples of simple machines (e.g., levers, ramps) ..... A A- A-

**S7** (continued)

Choose the response that best describes when each topic or concept is taught for students in this class.

If a topic or concept was in the curriculum before <fourth grade>, choose “Mostly taught before this year”. If you have taught a topic this year, choose “Mostly taught this year”. If a topic is not in the <fourth grade> curriculum for this year or you have not yet taught a topic, choose “Not yet taught”.

Check one circle for each line.

Mostly taught before this year
Mostly taught this year
Not yet taught


**C. Earth Science**

- |   |   |              |              |
|---|---|--------------|--------------|
| a) Composition of Earth’s surface (i.e., land, fresh water, salt water) .....         | A | <del>A</del> | <del>A</del> |
| b) Earth’s resources and their use by humans .....                                    | A | A            | A            |
| c) Renewable and nonrenewable resources .....   | A | <del>A</del> | <del>A</del> |
| d) How wind and water change Earth’s surface over time .....                          | A | <del>A</del> | <del>A</del> |
| e) What fossils can show about Earth’s history .....                                  | A | <del>A</del> | <del>A</del> |
| f) How weather changes day to day and with geographic location.....                   | A | <del>A</del> | <del>A</del> |
| g) Effects of increasing temperatures on Earth .....                                  | A | <del>A</del> | <del>A</del> |
| h) Composition of the Solar System (the Sun, Earth, Moon, and other planets) .....    | A | <del>A</del> | <del>A</del> |
| i) How the Moon’s movement around the Earth changes its appearance .....              | A | <del>A</del> | <del>A</del> |
| j) How Earth’s rotation causes day and night .....                                    | A | <del>A</del> | <del>A</del> |
| k) How Earth’s annual movement around the Sun causes seasons or seasonal change ..... | A | <del>A</del> | <del>A</del> |

**S8**

**A. How often do you usually assign science homework to the students in this class?**

*Check one circle only.*

I do not assign science homework ...  A   
(Go to #S9)

Less than once a week ...  A

1 or 2 times a week ...  A

3 or 4 times a week ...  A

Every day ...  A

**B. How often do you do the following with the science homework assignments for this class?**

*Check one circle for each line.*

- |  | Always or almost always | Sometimes               | Never or almost never   |
|--|-------------------------|-------------------------|-------------------------|
| a) Correct assignments and give feedback to students | <input type="radio"/> A | <input type="radio"/> A | <input type="radio"/> A |
| b) Discuss the homework in class                     | <input type="radio"/> A | <input type="radio"/> A | <input type="radio"/> A |
| c) Monitor whether or not the homework was completed | <input type="radio"/> A | <input type="radio"/> A | <input type="radio"/> A |

**S9**

**How much importance do you place on these strategies to assess students' learning in science?**

*Check one circle for each line.*

- |   | A lot                   | Some                    | None                    |
|---|-------------------------|-------------------------|-------------------------|
| a) Observing students as they work                  | <input type="radio"/> A | <input type="radio"/> A | <input type="radio"/> A |
| b) Asking students to answer questions during class | <input type="radio"/> A | <input type="radio"/> A | <input type="radio"/> A |
| c) Short, regular written assessments               | <input type="radio"/> A | <input type="radio"/> A | <input type="radio"/> A |
| d) Longer tests (e.g., unit tests or exams)         | <input type="radio"/> A | <input type="radio"/> A | <input type="radio"/> A |
| e) Long-term projects                               | <input type="radio"/> A | <input type="radio"/> A | <input type="radio"/> A |

**S10**

**About how often do <fourth grade> students in this class take science tests on computers or tablets?**

*Check one circle only.*

- More than once a month ...  A
- Once a month ...  A
- Twice a year ...  A
- Once a year ...  A
- Never ...  A

S11

**A. In the past two years, have you participated in professional development in any of the following?**

**B. Do you need future professional development in any of the following?**

*Check one circle for each line.*

*Check one circle for each line.*

Yes \_\_\_\_\_

No \_\_\_\_\_

Yes \_\_\_\_\_

No \_\_\_\_\_

- |   |   |   |   |   |
|---|---|---|---|---|
| a) Science content .....  | A | A | A | A |
| b) Science pedagogy/<br>instruction.....  | A | A | A | A |
| c) Science curriculum.....  | A | A | A | A |
| d) Integrating technology<br>into science instruction---                                  | A | A | A | A |
| e) Improving students'<br>critical thinking or<br>inquiry skills.....                     | A | A | A | A |
| f) Science assessment .....   | A | A | A | A |
| g) Addressing individual<br>students' needs.....  | A | A | A | A |
| h) Integrating science<br>with other subjects<br>(e.g., mathematics,<br>technology) ..... | A | A | A | A |

# Thank You

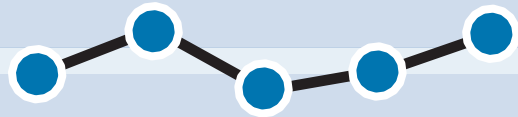
Thank you for the thought, time, and effort you have put into completing this questionnaire.



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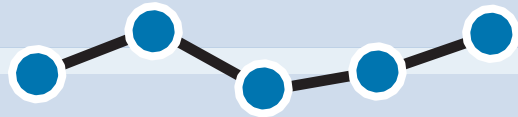




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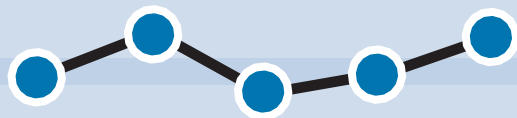
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TRENDS IN INTERNATIONAL MATHEMATICS AND SCIENCE STUDY

# Teacher Questionnaire Mathematics

<Grade 8>

<TIMSS National Research Center Name>  
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Field Test  
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Blank lines for additional information



# Teacher Questionnaire

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# TIMSS 2023

To access this questionnaire online, please copy the following link into the address bar of your Web browser:

<Insert LINK>

All necessary teacher login information (Subject Code, ID, and Password) is provided on the identification label located on the cover. “Teacher ID” is your ID and “Checksum” is your password.

You may exit the questionnaire at any time and log in again later—all of your responses will be saved automatically.

If you have problems accessing this online questionnaire or are in need of assistance (e.g., you would prefer to complete a paper copy of the questionnaire, questions related to a subject that you do not teach to the <TIMSS> class are displayed), please contact:

<Insert country-specific information here>.

# Thank You

**Thank you for the thought, time, and effort you have put into completing this questionnaire.**



BOSTON  
COLLEGE

[fimss.bc.edu](http://fimss.bc.edu)

<Grade 8>



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International Association  
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Educational Achievement



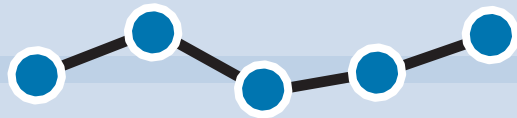
Identification Label

TRENDS IN INTERNATIONAL MATHEMATICS AND SCIENCE STUDY

# Teacher Questionnaire Mathematics

<Grade 8>

<TIMSS National Research Center Name>  
<Address>



Field Test  
Version



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Thank you.

# TIMSS 2023

# About You

## 1

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

\_\_\_\_\_ years  
Please *round* to the nearest whole number.

## 2

Which of these describes you?

Check *one* circle only.

Female --- A

Male --- A

<Other> --- A

## 3

How old are you?

Check *one* circle only.

Under 25 --- A

25-29 --- A

30-39 --- A

40-49 --- A

50-59 --- A


60 or more --- A

## 4

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

Check *one* circle only.

Did not complete <Upper secondary education—ISCED Level 3> --- A

<Upper secondary education—ISCED Level 3> --- A 

(If you have not completed <post-secondary or tertiary education>, go to #6)

<Post-secondary, non-tertiary education—ISCED Level 4> --- A

<Short-cycle tertiary education—ISCED Level 5> --- A

<Bachelor’s or equivalent level—ISCED Level 6> --- A

<Master’s or equivalent level—ISCED Level 7> --- A

<Doctor or equivalent level—ISCED Level 8> --- A

## 5

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

Check *one* circle for each line.

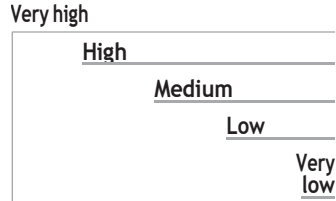
- |                                | Yes | No |
|--------------------------------|-----|----|
| a) Mathematics-----            | A   | A  |
| b) Biology-----                | A   | A  |
| c) Physics-----                | A   | A  |
| d) Chemistry-----              | A   | A  |
| e) <Earth Science> -----       | A   | A  |
| f) Education-Mathematics ----- | A   | A  |
| g) Education-Science -----     | A   | A  |
| h) Education-General -----     | A   | A  |
| i) Other-----                  | A   | A  |



**6**

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

Check *one* circle for each line.

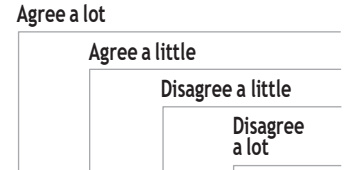


- a) Teachers' understanding of the school's curricular goals --- A— A —A A— A —
- b) Teachers' degree of success in implementing the school's curriculum ..... A— A —A A— A —
- c) Teachers' expectations for student achievement ..... A— A —A A— A —
- d) Teachers' ability to inspire students ..... A— A —A A— A —
- e) Parental involvement in school activities ..... A— A —A A— A —
- f) Parental commitment to ensure that students are ready to learn ..... A— A —A A— A —
- g) Parental expectations for student achievement ..... A— A —A A— A —
- h) Parental support for student achievement ..... A— A —A A— A —
- i) Students' desire to do well in school ..... A— A —A A— A —
- j) Students' ability to reach school's academic goals ..... A— A —A A— A —
- k) Students' respect for classmates who excel academically ..... A— A —A A— A —

**7**

How much do you agree or disagree with the following statements about your current school?

Check *one* circle for each line.



- a) I feel safe at this school ..... A— A —A A—
- b) This school's security policies and practices are sufficient ---- A— A —A A—
- c) The students behave in an orderly manner ..... A— A —A A—
- d) The students are respectful of the teachers ..... A— A —A A—
- e) The students respect school property ..... A— A —A A—
- f) This school has clear rules about student conduct ..... A— A —A A—
- g) This school's rules are enforced in a fair and consistent manner ..... A— A —A A—

## 8

How often do you have these feelings about being a teacher?

Check one circle for each line.

	Very often	Often	Sometimes	Never or almost never
a) I am content with my profession as a teacher .....	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
b) I find my work full of meaning and purpose .....	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
c) I am enthusiastic about my job .....		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
d) My work inspires me .....		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
e) I am proud of the work I do .....	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
f) I feel appreciated as a teacher .....	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
g) I enjoy the challenges of teaching .....	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

## 9

How much do you agree or disagree with the statements below?

Check one circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) There are too many students in the classes .....	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
b) I have too much material to cover in class .....	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
c) I have too many teaching hours .....	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
d) I need more time to prepare for class .....	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
e) I need more time to assist individual students .....	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
f) I feel too much pressure from parents .....	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
g) I have difficulty keeping up with all of the changes to the curriculum .....	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
h) I have too many administrative tasks .....	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

**10**

How many students are in this class?

\_\_\_\_\_ students  
Write in the number.

**11**

How many <eighth grade> students experience difficulties understanding spoken <language of test>?

\_\_\_\_\_ students in this class  
Write in the number.

**12**

How often do you do the following in teaching this class?

Check one circle for each line.

Every or almost every lesson  
About half the lessons  
Some lessons  
Never

- a) Relate the lesson to students' daily lives ..... A — A — A — A —
- b) Ask students to explain their answers ..... A — A — A — A —
- c) Communicate goals or objectives for the lesson to the students ..... A — A — A — A —
- d) Ask students to complete challenging exercises that require them to go beyond the instruction ..... A — A — A — A —
- e) Encourage classroom discussions among students ..... A — A — A — A —
- f) Link new content to students' prior knowledge .... A — A — A — A —
- g) Ask students to decide their own problem solving procedures ..... A — A — A — A —
- h) Encourage students to express their ideas in class .... A — A — A — A —

**13**

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

Check one circle for each line.

Not at all  
Some  
A lot

- a) Students lacking prerequisite knowledge or skills ..... A — A — A —
- b) Students suffering from lack of basic nutrition ..... A — A — A —
- c) Students suffering from not enough sleep ..... A — A — A —
- d) Students absent from class ..... A — A — A —
- e) Disruptive students ..... A — A — A —
- f) Uninterested students ..... A — A — A —
- g) Distracted students ..... A — A — A —
- h) Students with mental, emotional, or psychological impairment ..... A — A — A —
- i) Students with difficulties understanding the language of instruction ..... A — A — A —

14

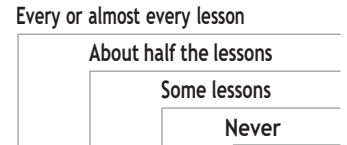
In a typical week, how much time do you spend teaching mathematics to the students in this class?

\_\_\_\_\_ minutes per week  
 Write in the number of minutes per week.  
 Please convert the number of hours into minutes.

15

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

Check one circle for each line.



- a) Listen to me explain new mathematics content ..... A—A ~~A~~ A—
- b) Listen to me explain how to solve problems ..... A—A ~~A~~ A—
- c) Memorize rules, procedures, and facts ..... A—A ~~A~~ A—
- d) Practice procedures on their own ..... A—A ~~A~~ A—
- e) Apply what they have learned to new problem situations on their own ..... A—A ~~A~~ A—
- f) Work problems together in the whole class with direct guidance from me ..... A—A ~~A~~ A
- g) Work in mixed ability groups-- A—A ~~A~~ A
- h) Work in same ability groups-- A—A ~~A~~ A

**16**

Are students in this class permitted to use calculators during mathematics lessons?

Check one circle only.

Yes, with unrestricted use --- A

Yes, with restricted use --- A

No --- A

**17**

A. Do the students in this class have digital devices (including computers, tablets, or smartphones) available to use during mathematics lessons?

Check one circle only.

Yes --- A

No --- A 

(If No, go to #18)

If Yes,

B. What access do the students have to digital devices?

Check one circle for each line.

- |  |                       |                       |                       |
|--|-----------------------|-----------------------|-----------------------|
|  |                       | Yes                   | No                    |
| a) The class has digital devices for each student to use .....           | A                     | <input type="radio"/> | <input type="radio"/> |
| b) The class has digital devices that students can share .....           | A                     | <input type="radio"/> | <input type="radio"/> |
| c) The school has digital devices that the class can use sometimes ..... | <input type="radio"/> | A                     | <input type="radio"/> |
| d) Students bring their own digital devices .....                        | <input type="radio"/> | A                     | <input type="radio"/> |

C. How often do you have students use digital devices during mathematics instruction?

Check one circle only.

At least once a week --- A

Once or twice a month --- A

A few times a year --- A

D. How often do you ask the students in your class to use digital devices to do these mathematics activities?

Check one circle for each line.

- |  |   |                       |                       |                       |                       |
|--|---|-----------------------|-----------------------|-----------------------|-----------------------|
|  |   | At least once a week  | Once or twice a month | A few times a year    | Never or almost never |
| a) Practice problems and procedures .....                          | A | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| b) Solve extended or contextualized problems .....                 | A | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| c) Create graphs, tables, or other data displays .....             | A | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| d) Play games involving mathematics calculations or concepts ..... | A | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| e) Read the textbook or watch instructional videos .....           | A | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

**18**

How much do each of these keep you from incorporating digital devices into mathematics instruction?

Check one circle for each line.

- |   |   |                       |                       |                       |
|---|---|-----------------------|-----------------------|-----------------------|
|   |   | Not at all            | Somewhat              | A lot                 |
| a) Not knowing how to use digital devices to improve student learning ..... | A | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| b) Not enough access to digital devices .....                               | A | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| c) Keeping students on task when the class is using digital devices .....   | A | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| d) Lack of technical support from the school .....                          | A | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

# Mathematics Topics Taught to the TIMSS Class

19

The following list includes topics addressed by the TIMSS mathematics test. Choose the response that best describes when each topic is taught for students in this class.

If a topic was in the curriculum before <eighth grade>, choose “Mostly taught before this year”. If you have taught a topic this year, choose “Mostly taught this year”. If a topic is not in the <eighth grade> curriculum for this year or you have not yet taught a topic, choose “Not yet taught”.

Check one circle for each line.

Mostly taught before this year			
	Mostly taught this year		
		Not yet taught	

## A. Number

- a) Add and subtract positive and negative numbers ..... A  A  A
- b) Find and use factors, multiples, positive powers, or square roots of positive whole numbers..... A  A  A
- c) Compare fractions and decimals ..... A  A  A
- d) Add, subtract, and multiply with fractions and decimals ..... A  A  A
- e) Divide fractions and decimals by a whole number..... A  A  A
- f) Determine proportions and ratios ..... A  A  A
- g) Find percentages and convert between percentages and fractions/decimals ..... A  A  A

## B. Algebra

- a) Simplify and compare algebraic expressions ..... A  A  A
- b) Solve simple linear equations ..... A  A  A
- c) Solve simple linear inequalities ..... A  A  A
- d) Solve simultaneous linear equations (two variables)..... A  A  A
- e) Write expressions, equations, or inequalities to represent problems..... A  A  A
- f) Interpret linear functions in graphs, tables, or words..... A  A  A
- g) Interpret simple non-linear functions (e.g., quadratic, cubic) in graphs, tables, or words..... A  A  A
- h) Generalize linear and non-linear pattern relationships or sequences ..... A  A  A

## C. Geometry and Measurement

- a) Read and plot points in the Cartesian plane ..... A  A  A
- b) Recognize and draw different types of angles and lines ..... A  A  A
- c) Use geometric properties of polygons to calculate lengths, perimeter, and area (including the Pythagorean Theorem) ..... A  A  A
- d) Determine the results of geometric translation, reflection, and rotation ..... A  A  A
- e) Use properties of similar and congruent figures ..... A  A  A
- f) Calculate surface area and volume of common three-dimensional shapes ..... A  A  A

## D. Data and Probability


- a) Interpret data from one or more data sources

- b) Represent data in graphs, charts, or plots ..... A ~~A~~ ~~A~~  
..... A ~~A~~ ~~A~~
- c) Calculate and interpret the mean or median of a data distribution ..... A ~~A~~ ~~A~~
- d) Calculate probabilities of simple and compound events..... A ~~A~~ ~~A~~

**20**

**A. How often do you usually assign mathematics homework to the students in this class?**

*Check one circle only.*

- I do not assign mathematics homework --- A  (Go to #21)
- Less than once a week --- A
- 1 or 2 times a week --- A
- 3 or 4 times a week --- A
- Every day --- A

**B. How often do you do the following with the mathematics homework assignments for this class?**

*Check one circle for each line.*

- |   | Always or almost always    | Sometimes                             | Never or almost never      |
|---|----------------------------|---------------------------------------|----------------------------|
| a) Correct assignments and give feedback to students-----                 | A <input type="checkbox"/> | A <input checked="" type="checkbox"/> | A <input type="checkbox"/> |
| b) Have students correct their own homework -----                         | A <input type="checkbox"/> | A <input checked="" type="checkbox"/> | A <input type="checkbox"/> |
| c) Discuss the homework in class -----                                    | A <input type="checkbox"/> | A <input checked="" type="checkbox"/> | A <input type="checkbox"/> |
| d) Monitor whether or not the homework was completed ----                 | A <input type="checkbox"/> | A <input checked="" type="checkbox"/> | A <input type="checkbox"/> |
| e) Use the homework to contribute towards students' grades or marks ----- | A <input type="checkbox"/> | A <input checked="" type="checkbox"/> | A <input type="checkbox"/> |

**21**

**How much importance do you place on these strategies to assess students' learning in mathematics?**

*Check one circle for each line.*

- |   | A lot                      | Some                                  | None                       |
|---|----------------------------|---------------------------------------|----------------------------|
| a) Observing students as they work -----                  | A <input type="checkbox"/> | A <input checked="" type="checkbox"/> | A <input type="checkbox"/> |
| b) Asking students to answer questions during class ----- | A <input type="checkbox"/> | A <input checked="" type="checkbox"/> | A <input type="checkbox"/> |
| c) Short, regular written assessments -----               | A <input type="checkbox"/> | A <input checked="" type="checkbox"/> | A <input type="checkbox"/> |
| d) Longer tests (e.g., unit tests or exams) -----         | A <input type="checkbox"/> | A <input checked="" type="checkbox"/> | A <input type="checkbox"/> |
| e) Long-term projects -----                               | A <input type="checkbox"/> | A <input checked="" type="checkbox"/> | A <input type="checkbox"/> |

**22**

**About how often do <eighth grade> students in this class take mathematics tests on computers or tablets?**

*Check one circle only.*

- More than once a month --- A
- Once a month --- A
- Twice a year -- A
- Once a year --- A
- Never -- A



23

A. In the past two years, have you participated in professional development in any of the following?

B. Do you need future professional development in any of the following?

Check *one* circle for each line.

Check *one* circle for each line.

	Yes _____		No _____	
a) Mathematics content	<del>-----</del> A	A-----	<del>-----</del> A	A-----
b) Mathematics pedagogy/ instruction	<del>-----</del> A	A-----	<del>-----</del> A	A-----
c) Mathematics curriculum	<del>-----</del> A	A-----	<del>-----</del> A	A-----
d) Integrating technology into mathematics instruction	<del>-----</del> A	A-----	<del>-----</del> A	A-----
e) Improving students' critical thinking or problem solving skills	<del>-----</del> A	A-----	<del>-----</del> A	A-----
f) Mathematics assessment	<del>-----</del> A	A-----	<del>-----</del> A	A-----
g) Addressing individual students' needs	<del>-----</del> A	A-----	<del>-----</del> A	A-----

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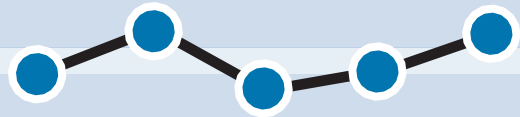
**put into completing this questionnaire.**



BOSTON  
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<Grade 8>



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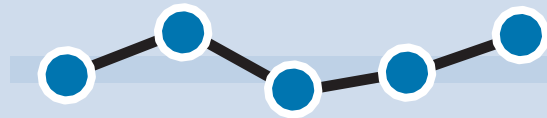
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TRENDS IN INTERNATIONAL MATHEMATICS AND SCIENCE STUDY

# Teacher Questionnaire Science

<Grade 8>

<TIMSS National Research Center Name>  
<Address>



Field Test  
Version

Online Administration

Blank lines for additional information



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<Grade 8>



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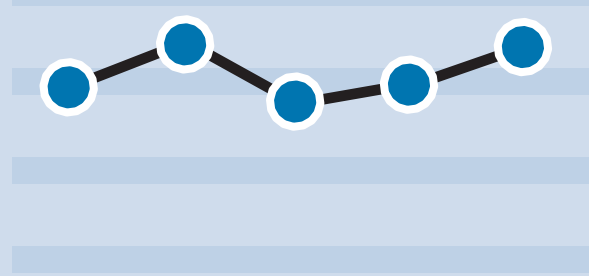
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TRENDS IN INTERNATIONAL MATHEMATICS AND SCIENCE STUDY

# Teacher Questionnaire Science

<Grade 8>

<TIMSS National Research Center Name>  
<Address>



Field Test  
Version

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Thank you.

# TIMSS 2023

# About You

## 1

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

\_\_\_\_\_ years  
Please *round* to the nearest whole number.

## 2

Which of these describes you?

Check *one* circle only.

Female --- A

Male --- A

<Other> --- A

## 3

How old are you?

Check *one* circle only.

Under 25 --- A

25-29 --- A

30-39 --- A

40-49 --- A

50-59 --- A


60 or more --- A

## 4

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

Check *one* circle only.

Did not complete <Upper secondary education–ISCED Level 3> --- A

<Upper secondary education–ISCED Level 3> --- A 

(If you have not completed <post-secondary or tertiary education>, go to #6)

<Post-secondary, non-tertiary education–ISCED Level 4> --- A

<Short-cycle tertiary education–ISCED Level 5> --- A

<Bachelor’s or equivalent level–ISCED Level 6> --- A

<Master’s or equivalent level–ISCED Level 7> --- A

<Doctor or equivalent level–ISCED Level 8> --- A

## 5

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

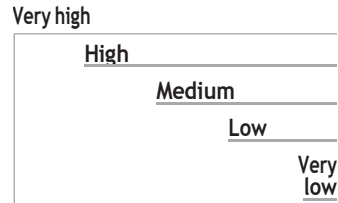
Check *one* circle for each line.

	Yes	No
a) Mathematics-----	A	A
b) Biology-----	A	A
c) Physics-----	A	A
d) Chemistry-----	A	A
e) <Earth Science> -----	A	A
f) Education-Mathematics -----	A	A
g) Education-Science -----	A	A
h) Education-General -----	A	A
i) Other-----	A	A

**6**

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

Check *one* circle for each line.

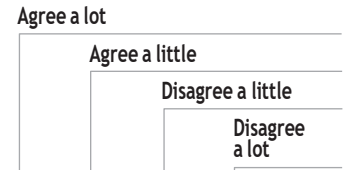


- a) Teachers' understanding of the school's curricular goals --- A- A -A A- A ---
- b) Teachers' degree of success in implementing the school's curriculum ..... A- A -A A- A ---
- c) Teachers' expectations for student achievement ..... A- A -A A- A ---
- d) Teachers' ability to inspire students ..... A- A -A A- A ---
- e) Parental involvement in school activities ..... A- A -A A- A ---
- f) Parental commitment to ensure that students are ready to learn ..... A- A -A A- A ---
- g) Parental expectations for student achievement ..... A- A -A A- A ---
- h) Parental support for student achievement ..... A- A -A A- A ---
- i) Students' desire to do well in school ..... A- A -A A- A ---
- j) Students' ability to reach school's academic goals ..... A- A -A A- A ---
- k) Students' respect for classmates who excel academically ..... A- A -A A- A ---

**7**

How much do you agree or disagree with the following statements about your current school?

Check *one* circle for each line.



- a) I feel safe at this school ..... A- A -A A- ---
- b) This school's security policies and practices are sufficient ---- A A- A -A
- c) The students behave in an orderly manner ..... A A- A -A
- d) The students are respectful of the teachers ..... A A- A -A
- e) The students respect school property ..... A A- A -A
- f) This school has clear rules about student conduct ..... A A- A -A
- g) This school's rules are enforced in a fair and consistent manner ..... A A- A -A

## 8

How often do you have these feelings about being a teacher?

Check one circle for each line.

	Very often	Often	Sometimes	Never or almost never
a) I am content with my profession as a teacher .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
b) I find my work full of meaning and purpose .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
c) I am enthusiastic about my job .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
d) My work inspires me .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
e) I am proud of the work I do .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
f) I feel appreciated as a teacher .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
g) I enjoy the challenges of teaching .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A

## 9

How much do you agree or disagree with the statements below?

Check one circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) There are too many students in the classes .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
b) I have too much material to cover in class .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
c) I have too many teaching hours .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
d) I need more time to prepare for class .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
e) I need more time to assist individual students .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
f) I feel too much pressure from parents .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
g) I have difficulty keeping up with all of the changes to the curriculum .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
h) I have too many administrative tasks .....	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A

# About Teaching the <TIMSS Class/Class with the TIMSS students>

10

How many students are in this class?

\_\_\_\_\_ students  
Write in the number.

11

How many <eighth grade> students experience difficulties understanding spoken <language of test>?

\_\_\_\_\_ students in this class  
Write in the number.

12

How often do you do the following in teaching this class?

Check one circle for each line.

Every or almost every lesson  
About half the lessons  
Some lessons  
Never

- a) Relate the lesson to students' daily lives -----A A- A -A
- b) Ask students to explain their answers -----A A- A -A
- c) Communicate goals or objectives for the lesson to the students -----A A- A -A
- d) Ask students to complete challenging exercises that require them to go beyond the instruction -----A A- A -A
- e) Encourage classroom discussions among students -----A A- A -A
- f) Link new content to students' prior knowledge -----A A- A -A
- g) Ask students to decide their own problem solving procedures -----A A- A -A
- h) Encourage students to express their ideas in class -----A A- A -A

13

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

Check one circle for each line.

Not at all  
Some  
A lot

- a) Students lacking prerequisite knowledge or skills -----A A- A
- b) Students suffering from lack of basic nutrition -----A A- A
- c) Students suffering from not enough sleep -----A A- A
- d) Students absent from class -----A A- A
- e) Disruptive students -----A A- A
- f) Uninterested students -----A A- A
- g) Distracted students -----A A- A
- h) Students with mental, emotional, or psychological impairment -----A A- A
- i) Students with difficulties understanding the language of instruction -----A A- A

14

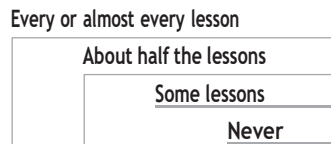
In a typical week, how much time do you spend teaching science to the students in this class?

\_\_\_\_\_ minutes per week  
 Write in the number of minutes per week.  
 Please convert the number of hours into minutes.

15

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

Check one circle for each line.

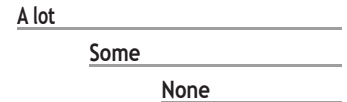


- a) Listen to me explain new science content ..... A—A A A—
- b) Observe natural phenomena and describe what they see --- A—A A A—
- c) Watch me demonstrate an experiment or investigation ..... A—A A A—
- d) Read their textbooks or other resource materials ..... A—A A A—
- e) Memorize facts and principles ..... A—A A A—
- f) Use scientific formulas and laws to solve routine problems ..... A—A A A—
- g) Do field work outside of class-- A—A A A—
- h) Work in mixed ability groups -- A—A A A—
- i) Work in same ability groups --- A—A A A—

16

How much emphasis do you place on the following when teaching science to students in this class?

Check one circle for each line.



- a) Encouraging students to ask questions about scientific phenomena ..... A—A A—
- b) Having students predict the outcomes of experiments or investigations ..... A—A A—
- c) Having students discuss variation in data from experiments or investigations ..... A—A A—
- d) Having students use multiple sources of evidence to explain scientific phenomena ..... A—A A—
- e) Having students create representations (e.g., models, graphs) to explain scientific phenomena ..... A—A A—
- f) Having students use scientific concepts to explain phenomena ..... A—A A—
- g) Having students argue about science questions ..... A—A A—

**A. How often do you provide opportunities for students to do the following when teaching this class?**

Check *one* circle for each line.

Once a week or more

Once or twice a month
Once or twice every few months
Never or almost never

- a) Experiments or investigations that are carried out in a single lesson ..... A—A —A— A—
- b) Experiments or investigations that are carried out over a series of lessons ..... A —A —A— A—
- c) Hands-on activities to explore science concepts ..... A—A —A— A—
- d) Experiments with a prescribed set of steps to answer a given question ..... A—A —A— A—
- e) Experiments where students determine their own procedures to answer a given question ..... A—A —A— A—

**B. How often do you go to a separate science laboratory when conducting experiments or investigations with students in this class?**

Check *one* circle only.

- Always or almost always --- A
- Sometimes --- A
- Never or almost never --- A

18

**A. Do the students in this class have digital devices (including computers, tablets, or smartphones) available to use during science lessons?**

Check one circle only.

Yes --- A

No --- A 

(If No, go to #19)

**If Yes,**

**B. What access do the students have to digital devices?**

Check one circle for each line.

	Yes	No
a) The class has digital devices for each student to use -----	A	A
b) The class has digital devices that students can share -----	A	A
c) The school has digital devices that the class can use sometimes -----	A	A
d) Students bring their own digital devices -----	A	A

**C. How often do you have students use digital devices during science instruction?**

Check one circle only.

At least once a week --- A

Once or twice a month --- A

A few times a year --- A

**D. How often do you ask the students in your class to use digital devices to do these science activities?**

Check one circle for each line.

	At least once a week	Once or twice a month	A few times a year	Never or almost never
a) Solve extended or contextualized problems -----	A	A	A	A
b) Create graphs, tables, or other data displays -----	A	A	A	A
c) Play games involving science concepts -----	A	A	A	A
d) Conduct virtual experiments or other simulations -----	A	A	A	A
e) Read the textbook or watch instructional videos -----	A	A	A	A

19

**How much do each of these keep you from incorporating digital devices into science instruction?**

Check one circle for each line.

	Not at all	Somewhat	A lot
a) Not knowing how to use digital devices to improve student learning -----	A	A	A
b) Not enough access to digital devices -----	A	A	A
c) Keeping students on task when the class is using digital devices -----	A	A	A
d) Lack of technical support from the school -----	A	A	A



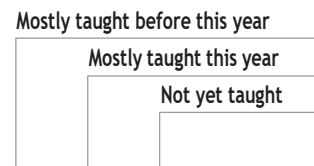
# Science Topics Taught to the <TIMSS Class/Class with the TIMSS students>

20

Choose the response that best describes when each topic or concept is taught for students in this class.

If a topic or concept was in the curriculum before <eighth grade>, choose “Mostly taught before this year”. If you have taught a topic this year, choose “Mostly taught this year”. If a topic is not in the <eighth grade> curriculum for this year or you have not yet taught a topic, choose “Not yet taught”.

Check one circle for each line.



## A. Biology

- a) Defining characteristics of major taxonomic groups of organisms ..... A
- b) Structures and functions of major organs and organ systems ..... A
- c) How animals maintain stable body conditions ..... A
- d) Major structures and functions in plant and animal cells..... A
- e) Basic processes of photosynthesis ..... A
- f) Basic processes of cellular respiration ..... A
- g) Life cycles of mammals, birds, amphibians, insects, and plants ..... A
- h) Processes for reproduction and inheritance in plants and animals ..... A
- i) How variation in traits relates to natural selection and changes in life on Earth over time..... A
- j) Interpreting food web diagrams and the flow of energy in ecosystems..... A
- k) Cycling of water, oxygen, and carbon through ecosystems ..... A
- l) Predation, competition, and symbiosis in ecosystems..... A
- m) How changes in an ecosystem affect the populations of organisms that live there..... A
- n) How human actions can positively or negatively impact the environment ..... A
- o) How to prevent transmission of common diseases among humans ..... A
- p) Importance of diet, exercise, and lifestyle choices for maintaining good human health ..... A

## B. Chemistry

- a) Structure of atoms (i.e., protons, neutrons, electrons) and molecules ..... A
- b) Differences among elements, compounds, and mixtures..... A
- c) How to interpret the periodic table of elements ..... A
- d) Classifying matter according to physical and chemical properties ..... A
- e) Methods for separating mixtures ..... A
- f) Solution concentration and rate of dissolving ..... A
- g) Properties of acids and bases ..... A

- h) Matter and energy in chemical reactions, including evidence of chemical change ..... A ~~A~~ ~~A~~
- i) How to change the rate of chemical reactions ..... A ~~A~~ ~~A~~
- j) Chemical bonds (e.g., role of electrons) ..... A ~~A~~ ~~A~~

Choose the response that best describes when each topic or concept is taught for students in this class.

If a topic or concept was in the curriculum before <eighth grade>, choose “Mostly taught before this year”. If you have taught a topic this year, choose “Mostly taught this year”. If a topic is not in the <eighth grade> curriculum for this year or you have not yet taught a topic, choose “Not yet taught”.

Check one circle for each line.

Mostly taught before this year			
	Mostly taught this year		
		Not yet taught	

**C. Physics**

- a) Separation and motion of atoms/molecules in solids, liquids, and gases ..... A  A  A
- b) Characteristics of matter and energy during state changes ..... A  A  A
- c) Types of energy (e.g., kinetic, potential, thermal) and examples of energy transformations..... A  A  A
- d) Thermal conductivity and the transfer of thermal energy between objects of different temperatures ..... A  A  A
- e) Reflection, refraction, or absorption of light ..... A  A  A
- f) Characteristics of sound (i.e., amplitude, frequency) and its transmission, reflection, and absorption ..... A  A  A
- g) Electrical conductors and simple electrical circuits ..... A  A  A
- h) Polarity, strength, and uses of permanent magnets and electromagnets ..... A  A  A
- i) Speed as distance changing over time ..... A  A  A
- j) Acceleration as speed changing over time ..... A  A  A
- k) Effects of common forces on speed and direction of motion ..... A  A  A
- l) Density and buoyancy ..... A  A  A
- m) Functioning of simple machines (e.g., levers, inclined planes, pulleys) ..... A  A  A

**D. Earth Science**


- a) Earth’s structure and distribution of water on its surface ..... A  A  A
- b) Gases present in Earth’s atmosphere and their relative abundance ..... A  A  A
- c) Changes in temperature and pressure based on altitude ..... A  A  A
- d) How geological events impact Earth’s surface ..... A  A  A
- e) Processes in the rock cycle (e.g., lava cooling, weathering)..... A  A  A
- f) How fossils form and what they show about Earth’s history ..... A  A  A
- g) Processes in Earth’s water cycle ..... A  A  A
- h) Differences between weather and climate and geographic factors affecting climate ..... A  A  A
- i) Evidence for climate change ..... A  A  A
- j) Use and conservation of Earth’s resources, including land, water, and renewable and nonrenewable energy sources ..... A  A  A

- k) Phenomena caused by the motion of Earth and the Moon (e.g., seasons, tides, Moon phases)----- A ~~A~~ ~~A~~
- l) The Sun as a star and physical features of the Earth, Moon, and other planets ----- A ~~A~~ ~~A~~

**21**

**A. How often do you usually assign science homework to the students in this class?**

*Check one circle only.*

I do not assign science homework ...  A   
(Go to #22)

Less than once a week ...  A

1 or 2 times a week ...  A

3 or 4 times a week ...  A

Every day ...  A

**B. How often do you do the following with the science homework assignments for this class?**

*Check one circle for each line.*

	Always or almost always	Sometimes	Never or almost never
a) Correct assignments and give feedback to students	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
b) Have students correct their own homework	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
c) Discuss the homework in class	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
d) Monitor whether or not the homework was completed	<input checked="" type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
e) Use the homework to contribute towards students' grades or marks	<input type="radio"/> A	<input type="radio"/> A	<input type="radio"/> A
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**22**

**How much importance do you place on these strategies to assess students' learning in science?**

*Check one circle for each line.*

	A lot	Some	None
a) Observing students as they work	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A
b) Asking students to answer questions during class	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A
c) Short, regular written assessments	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A
d) Longer tests (e.g., unit tests or exams)	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A
e) Long-term projects	<input type="radio"/> A	<input checked="" type="radio"/> A	<input type="radio"/> A

**23**

**About how often do <eighth grade> students in this class take science tests on computers or tablets?**

*Check one circle only.*

More than once a month ...  A

Once a month ...  A

Twice a year --  A

Once a year ...  A

Never --  A

**A. In the past two years, have you participated in professional development in any of the following?**

**B. Do you need future professional development in any of the following?**

*Check one circle for each line.*

*Check one circle for each line.*

Yes

Yes

No

No

- |   |              |              |              |              |
|---|--------------|--------------|--------------|--------------|
| a) Science content .....  | <del>A</del> | <del>A</del> | <del>A</del> | <del>A</del> |
| b) Science pedagogy/<br>instruction.....                              | <del>A</del> | <del>A</del> | <del>A</del> | <del>A</del> |
| c) Science curriculum .....   | <del>A</del> | <del>A</del> | <del>A</del> | <del>A</del> |
| d) Integrating technology<br>into science instruction---              | <del>A</del> | <del>A</del> | <del>A</del> | <del>A</del> |
| e) Improving students'<br>critical thinking or<br>inquiry skills..... | <del>A</del> | <del>A</del> | <del>A</del> | <del>A</del> |
| f) Science assessment .....   | <del>A</del> | <del>A</del> | <del>A</del> | <del>A</del> |
| g) Addressing individual<br>students' needs.....                      | <del>A</del> | <del>A</del> | <del>A</del> | <del>A</del> |

# Thank You

**Thank you for the thought, time, and effort you have put into completing this questionnaire.**





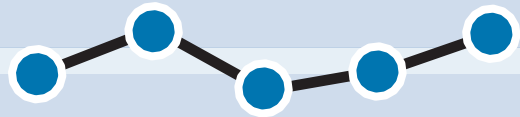




BOSTON  
COLLEGE

[timss.bc.edu](http://timss.bc.edu)

<Grade 8>



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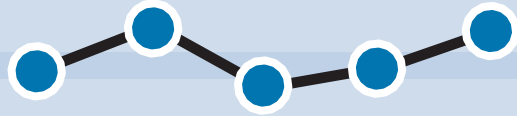
TRENDS IN INTERNATIONAL MATHEMATICS AND SCIENCE STUDY

# School Questionnaire

## <Grade 4>

<TIMSS National Research Center Name>  
<Address>

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## Field Test Version

### Online Administration

Three horizontal blue bars



## School Questionnaire

Your school has agreed to participate in TIMSS 2023 (Trends in International Mathematics and Science Study), an educational research project sponsored by the International Association for the Evaluation of Educational Achievement (IEA). TIMSS measures trends in student achievement in mathematics and science and studies differences in national education systems in almost 60 countries in order to help improve teaching and learning worldwide.

This questionnaire is addressed to school principals and department heads who are asked to supply information about their schools. Since your school has been selected as part of a nationwide sample, your responses are very important in helping to describe primary/elementary education in <country>.

It is important that you answer each question carefully so that the information provided reflects the situation in your school as accurately as possible. Some of the questions will require that you look up school records, so you may wish to arrange for the assistance of another staff member to help provide this information.

Since TIMSS is an international study and all countries are using the same questionnaire, you may find that some of the questions seem unusual or are not entirely relevant to you or schools in <country>. Nevertheless, it is important that you do your best to answer all of the questions so comparisons can be made across countries in the study.

It is estimated that you will need approximately 30 minutes to complete this questionnaire. We appreciate the time and effort that this takes and thank you for your cooperation and contribution.

# TIMSS 2023

To access this questionnaire online, please copy the following link into the address bar of your Web browser:

<Insert LINK>

All necessary login information is provided on the identification label located on the cover. “School ID” is your ID and “Checksum” is your password.

You may exit the questionnaire at any time and log in again later—all of your responses will be saved automatically.

If you have problems accessing this online questionnaire or are in need of assistance (e.g., you would prefer to complete a paper copy of this questionnaire), please contact:

<Insert country-specific information here>.

# Thank You

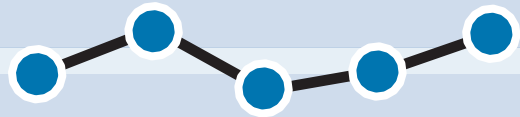
**Thank you for the thought, time, and effort you have put into completing this questionnaire.**



BOSTON  
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[fimss.bc.edu](http://fimss.bc.edu)

<Grade 4>



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Educational Achievement



Identification Label

TRENDS IN INTERNATIONAL MATHEMATICS AND SCIENCE STUDY

# School Questionnaire

## <Grade 4>

<TIMSS National Research Center Name>  
<Address>

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## Field Test Version

Blank lined area for additional information.



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When you have completed the questionnaire, please place it in the accompanying envelope and return it to:

<Insert country-specific information here>.

Thank you.

# TIMSS 2023

# School Enrollment and Characteristics

## 1

What is the total enrollment of students in your school as of <first day of month TIMSS testing begins, 2022>?

\_\_\_\_\_ students  
Write in the number.

## 2

What is the total enrollment of <fourth grade> students in your school as of <first day of month TIMSS testing begins, 2022>?

\_\_\_\_\_ students  
Write in the number.

## 3

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

Check one circle for each line.

- 0 to 10% \_\_\_\_\_
- 11 to 25% \_\_\_\_\_
- 26 to 50% \_\_\_\_\_
- More than 50% \_\_\_\_\_

- a) Come from economically disadvantaged homes ..... A — A — A —
- b) Come from economically affluent homes ..... A — A — A —

## 4

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

Check one circle only.

- More than 90% --- A
- 76 to 90% --- A
- 51 to 75% --- A
- 26 to 50% --- A

## 5

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

Check one circle only.

- More than 500,000 people --- A
- 100,001 to 500,000 people --- A
- 50,001 to 100,000 people --- A
- 30,001 to 50,000 people --- A
- 15,001 to 30,000 people --- A
- 3,001 to 15,000 people --- A
- 3,000 people or fewer --- A

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

Check one circle only.

- Urban-Densely populated --- A
- Suburban-On fringe or outskirts of urban area --- A
- Medium size city or large town --- A
- Small town or village --- A
- Remote rural --- A



25% or less --- A

## Instructional Time

6

For the <fourth grade> students in your school:

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

\_\_\_\_\_ days  
Write in the number.

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

\_\_\_\_\_ minutes  
Write in the number of minutes per day.  
Please convert the number of hours into minutes.

- C. In one calendar week, how many days is the school open for instruction?

Check one circle only.

- 6 days --- A  
5 1/2 days --- A  
5 days --- A  
4 1/2 days --- A  
4 days --- A  
Other --- A

## Resources and Technology

7

How many computers (including tablets) does your school have for use by <fourth grade> students?

\_\_\_\_\_ computers  
Write in the number.

8

- A. Does your school have a science laboratory that can be used by <fourth grade> students?

Check one circle only.

Yes --- A

No --- A

- B. Do teachers usually have assistance available when students are conducting science experiments?

Check one circle only.

Yes --- A

No --- A

9

Does your school use an online learning management system to support learning (e.g., teacher-student communication, management of grades, student access to course materials)?

Check one circle only.

Yes --- A

No --- A

10

Do students in your school have access to these resources?

Check one circle for each line.

Yes \_\_\_\_\_

No \_\_\_\_\_

a) A library or media center ----- A —A

b) Digital devices (e.g., computers, laptops, tablets)----- A— A

c) High speed internet ..... A A

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

Check one circle for each line.

Check one circle for each line.

	Not at all	A little	Some	A lot
<b>A. General School Resources</b>				
a) Instructional materials (e.g., textbooks) -----	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
b) Supplies (e.g., papers, pencils, materials) -----	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
c) School buildings and grounds -----	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
d) Heating/cooling and lighting systems -----	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
e) Instructional space (e.g., classrooms) -----	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
f) Technologically competent staff -----	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
g) Audio-visual resources for delivery of instruction (e.g., interactive white boards, digital projectors) -----	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
h) Digital devices for student use -----	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
i) Resources for students with disabilities -----	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

	Not at all	A little	Some	A lot
<b>B. Resources for Mathematics Instruction</b>				
a) Teachers with a specialization in mathematics -----	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
b) Computer software/applications for mathematics instruction -----	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
c) Library resources relevant to mathematics instruction -----	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
d) Calculators for mathematics instruction -----	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
e) Concrete objects or materials to help students understand quantities or procedures -----	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
<b>C. Resources for Science Instruction</b>				
a) Teachers with a specialization in science -----	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
b) Computer software/applications for science instruction -----	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
c) Library resources relevant to science instruction -----	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
d) Science equipment and materials for experiments -----	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

**12**

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

Check one circle for each line.

	Very high	High	Medium	Low	Very low
a) Teachers' understanding of the school's curricular goals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) Teachers' degree of success in implementing the school's curriculum	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) Teachers' expectations for student achievement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) Teachers' ability to inspire students	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) Parental involvement in school activities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) Parental commitment to ensure that students are ready to learn	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) Parental expectations for student achievement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h) Parental support for student achievement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i) Students' desire to do well in school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
j) Students' ability to reach school's academic goals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
k) Students' respect for classmates who excel academically	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**13**

To what degree is each of the following a problem among <fourth grade> students in your school?

Check one circle for each line.

	Not a problem	Minor problem	Moderate problem	Serious problem
a) Arriving late at school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) Absenteeism (i.e., unjustified absences)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) Classroom disturbance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) Cheating	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) Profanity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) Vandalism	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) Theft	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h) Intimidation or verbal abuse among students (including texting, emailing, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i) Physical fights among students	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
j) Intimidation or verbal abuse of teachers or staff (including texting, emailing, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**14**

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

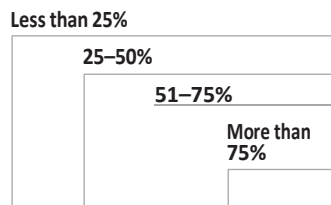
Check one circle for each line.

	Not a problem	Minor problem	Moderate problem	Serious problem
a) Arriving late or leaving early	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) Absenteeism	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

15

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

Check *one* circle for each line.



- a) Recognize most of the letters of the alphabet ..... A—A -A A—
- b) Read some words ..... A—A -A A—
- c) Read sentences ..... A—A -A A—
- d) Write letters of the alphabet -- A—A -A A—
- e) Write their names ..... A—A -A A—
- f) Write words other than their names ..... A—A A A
- g) Count up to 100 or higher ----- A —A A A
- h) Recognize written numbers from 1-10 ..... A—A A A
- i) Recognize written numbers higher than 10 ..... A—A -A A—
- j) Write numbers from 1-10 ----- A—A -A A—
- k) Do simple addition ..... A—A -A A—
- l) Do simple subtraction ..... A—A -A A—

16

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

\_\_\_\_\_ years  
Please *round* to the nearest whole number.

17

By the end of this school year, how many years will you have been a principal at this school?

\_\_\_\_\_ years  
Please *round* to the nearest whole number.

18

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

Check *one* circle only.

Did not complete <Bachelor's or equivalent level—ISCED Level 6> --- A

<Bachelor's or equivalent level—ISCED Level 6> --- A

<Master's or equivalent level—ISCED Level 7> --- A

<Doctor or equivalent level—ISCED Level 8> --- A

19

Do you hold the following qualifications or credentials in educational leadership?

Check *one* circle for each line.

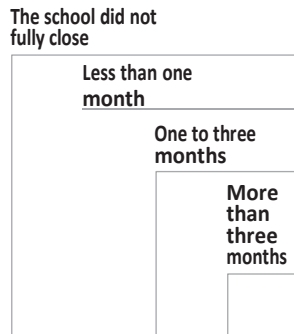
Yes \_\_\_\_\_  
No \_\_\_\_\_

- a) <Certificate or license> ..... A —A
- b) <Master's or equivalent level—ISCED Level 7> ..... A —A
- c) <Doctor or equivalent level—ISCED Level 8> ..... A —A

20

For how long was your school fully closed for in-person instruction because of the COVID-19 pandemic?

Check one circle for each line.

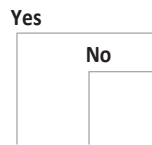


- a) <2019 - 2020> school year -- A  A  A  A
- b) <2020 - 2021> school year -- A  A  A  A
- c) <2021 - 2022> school year -- A  A  A  A

21

Did your school provide these additional remote learning resources during the COVID-19 pandemic?

Check one circle for each line.



- a) Printed learning materials for students (e.g., worksheets, textbooks) ----- A  A
- b) Digital devices (e.g., laptops, tablets) for students ----- A  A
- c) Online resources for students ----- A  A
- d) Pedagogical resources for teachers ----- A  A
- e) Digital devices (e.g., laptops, tablets) for teachers ----- A  A
- f) Technical support for teachers ----- A  A

Thank You



**Thank you for the thought, time, and effort you have put into completing this questionnaire.**

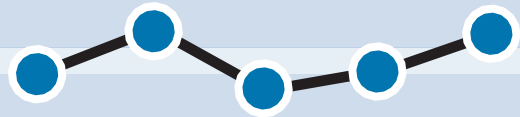




BOSTON  
COLLEGE

[timss.bc.edu](http://timss.bc.edu)

<Grade 4>



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International Association  
for the Evaluation of  
Educational Achievement



Identification Label

TRENDS IN INTERNATIONAL MATHEMATICS AND SCIENCE STUDY

# School Questionnaire

## <Grade 8>

<TIMSS National Research Center Name>  
<Address>

Blank lined area for handwritten information, including a line graph with five data points.

## Field Test Version

### Online Administration

Three horizontal blue bars for additional information.



## School Questionnaire

Your school has agreed to participate in TIMSS 2023 (Trends in International Mathematics and Science Study), an educational research project sponsored by the International Association for the Evaluation of Educational Achievement (IEA). TIMSS measures trends in student achievement in mathematics and science and studies differences in national education systems in almost 60 countries in order to help improve teaching and learning worldwide.

This questionnaire is addressed to school principals and department heads who are asked to supply information about their schools. Since your school has been selected as part of a nationwide sample, your responses are very important in helping to describe secondary education in <country>.

It is important that you answer each question carefully so that the information provided reflects the situation in your school as accurately as possible. Some of the questions will require that you look up school records, so you may wish to arrange for the assistance of another staff member to help provide this information.

Since TIMSS is an international study and all countries are using the same questionnaire, you may find that some of the questions seem unusual or are not entirely relevant to you or schools in <country>. Nevertheless, it is important that you do your best to answer all of the questions so comparisons can be made across countries in the study.

It is estimated that you will need approximately 30 minutes to complete this questionnaire. We appreciate the time and effort that this takes and thank you for your cooperation and contribution.

# TIMSS 2023

To access this questionnaire online, please copy the following link into the address bar of your Web browser:

<Insert LINK>

All necessary login information is provided on the identification label located on the cover. “School ID” is your ID and “Checksum” is your password.

You may exit the questionnaire at any time and log in again later—all of your responses will be saved automatically.

If you have problems accessing this online questionnaire or are in need of assistance (e.g., you would prefer to complete a paper copy of this questionnaire), please contact:

<Insert country-specific information here>.

# Thank You

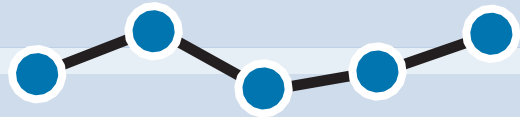
**Thank you for the thought, time, and effort you have put into completing this questionnaire.**



BOSTON  
COLLEGE

[fimss.bc.edu](http://fimss.bc.edu)

<Grade 8>



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International Association  
for the Evaluation of  
Educational Achievement



Identification Label

TRENDS IN INTERNATIONAL MATHEMATICS AND SCIENCE STUDY

# School Questionnaire

## <Grade 8>

<TIMSS National Research Center Name>  
<Address>

Blank lined area for school information with a line graph icon.

## Field Test Version

Blank lined area for additional information.





# School Questionnaire

Your school has agreed to participate in TIMSS 2023 (Trends in International Mathematics and Science Study), an educational research project sponsored by the International Association for the Evaluation of Educational Achievement (IEA). TIMSS measures trends in student achievement in mathematics and science and studies differences in national education systems in almost 60 countries in order to help improve teaching and learning worldwide.

This questionnaire is addressed to school principals and department heads who are asked to supply information about their schools. Since your school has been selected as part of a nationwide sample, your responses are very important in helping to describe secondary education in <country>.

It is important that you answer each question carefully so that the information provided reflects the situation in your school as accurately as possible. Some of the questions will require that you look up school records, so you may wish to arrange for the assistance of another staff member to help provide this information.

Since TIMSS is an international study and all countries are using the same questionnaire, you may find that some of the questions seem unusual or are not entirely relevant to you or schools in <country>. Nevertheless, it is important that you do your best to answer all of the questions so comparisons can be made across countries in the study.

It is estimated that you will need approximately 30 minutes to complete this questionnaire. We appreciate the time and effort that this takes and thank you for your cooperation and contribution.

When you have completed the questionnaire, please place it in the accompanying envelope and return it to:

<Insert country-specific information here>.

Thank you.

# TIMSS 2023

# School Enrollment and Characteristics

## 1

What is the total enrollment of students in your school as of <first day of month TIMSS testing begins, 2022>?

\_\_\_\_\_ students  
Write in the number.

## 2

What is the total enrollment of <eighth grade> students in your school as of <first day of month TIMSS testing begins, 2022>?

\_\_\_\_\_ students  
Write in the number.

## 3

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

Check one circle for each line.

0 to 10% \_\_\_\_\_  
11 to 25% \_\_\_\_\_  
26 to 50% \_\_\_\_\_  
More than 50% \_\_\_\_\_

a) Come from economically disadvantaged homes ----- A — A — A —

b) Come from economically affluent homes ----- A — A — A —

## 4

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

Check one circle only.

More than 90% --- A  
76 to 90% --- A  
51 to 75% --- A  
26 to 50% --- A  
25% or less --- A

## 5

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

Check one circle only.

More than 500,000 people --- A  
100,001 to 500,000 people --- A  
50,001 to 100,000 people --- A  
30,001 to 50,000 people --- A  
15,001 to 30,000 people --- A  
3,001 to 15,000 people --- A  
3,000 people or fewer --- A

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

Check one circle only.

Urban-Densely populated --- A  
Suburban-On fringe or outskirts of urban area --- A  
Medium size city or large town --- A  
Small town or village --- A  
Remote rural --- A



## Instructional Time

6

For the <eighth grade> students in your school:

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

\_\_\_\_\_ days  
Write in the number.

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

\_\_\_\_\_ minutes  
Write in the number of minutes per day.  
Please convert the number of hours into minutes.

C. In one calendar week, how many days is the school open for instruction?

Check one circle only.

- 6 days --- A  
5 1/2 days --- A  
5 days --- A  
4 1/2 days --- A  
4 days --- A  
Other --- A

## Resources and Technology

7

How many computers (including tablets) does your school have for use by <eighth grade> students?

\_\_\_\_\_ computers  
Write in the number.

8

A. Does your school have a science laboratory that can be used by <eighth grade> students?

Check one circle only.

Yes --- A

No --- A

B. Do teachers usually have assistance available when students are conducting science experiments?

Check one circle only.

Yes --- A

No --- A

9

Does your school use an online learning management system to support learning (e.g., teacher-student communication, management of grades, student access to course materials)?

Check one circle only.

Yes --- A

No --- A

10

Do students in your school have access to these resources?

Check one circle for each line.

Yes \_\_\_\_\_

No \_\_\_\_\_

- a) A library or media center ..... A -A  
b) Digital devices (e.g., computers, laptops, tablets)..... A- A  
c) High speed internet ..... A- A



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

Check one circle for each line.

	Not at all	A little	Some	A lot
<b>A. General School Resources</b>				
a) Instructional materials (e.g., textbooks) -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) Supplies (e.g., papers, pencils, materials) -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) School buildings and grounds -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) Heating/cooling and lighting systems -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) Instructional space (e.g., classrooms) -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) Technologically competent staff -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) Audio-visual resources for delivery of instruction (e.g., interactive white boards, digital projectors) -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h) Digital devices for student use -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i) Resources for students with disabilities -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Check one circle for each line.

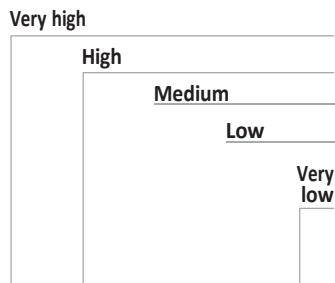
	Not at all	A little	Some	A lot
<b>B. Resources for Mathematics Instruction</b>				
a) Teachers with a specialization in mathematics -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) Computer software/applications for mathematics instruction -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) Library resources relevant to mathematics instruction -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) Calculators for mathematics instruction -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) Concrete objects or materials to help students understand quantities or procedures -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>C. Resources for Science Instruction</b>				
a) Teachers with a specialization in science -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) Computer software/applications for science instruction -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) Library resources relevant to science instruction -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) Calculators for science instruction -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) Science equipment and materials for experiments -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



## 12

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

Check one circle for each line.

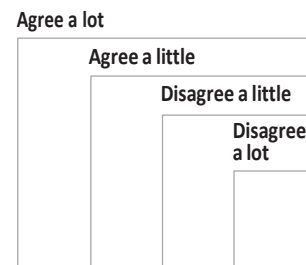


- a) Teachers' understanding of the school's curricular goals --- A A A A A
- b) Teachers' degree of success in implementing the school's curriculum ..... A- A -A A- A -
- c) Teachers' expectations for student achievement ..... A- A -A A- A -
- d) Teachers' ability to inspire students ..... A- A -A A- A -
- e) Parental involvement in school activities ..... A- A -A A- A -
- f) Parental commitment to ensure that students are ready to learn ..... A- A -A A- A -
- g) Parental expectations for student achievement ..... A- A -A A- A -
- h) Parental support for student achievement ..... A- A -A A- A -
- i) Students' desire to do well in school ..... A- A -A A- A -
- j) Students' ability to reach school's academic goals ..... A- A -A A- A -
- k) Students' respect for classmates who excel academically ..... A- A -A A- A -

## 13

How much do you agree with these statements about mathematics and science education within your school?

Check one circle for each line.



- a) The school provides students with information about career options in mathematics and science-----A A- A -A
- b) The school has initiatives to promote student interest in mathematics and science (e.g., student clubs, competitions)-----A A- A -A
- c) The school promotes professional development for teachers of mathematics and science-----A A- A -A
- d) The school provides extra lessons to help students excel in mathematics and science ---A A- A -A
- e) The school provides special activities in mathematics and science for interested students-----A A- A -A
- f) The school has a specific goal to improve mathematics and science education-----A A- A -A
- g) The school encourages students to continue studying mathematics and science in the future-----A A- A -A
- h) Mathematics and science teachers in this school spend extra time working with students interested in mathematics and science-----A A- A -A

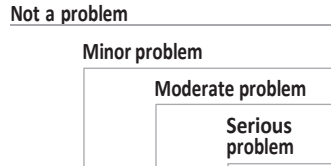




**14**

To what degree is each of the following a problem among <eighth grade> students in your school?

Check one circle for each line.

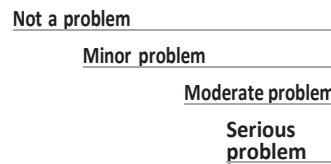


- a) Arriving late at school ..... A—A —A —A—
- b) Absenteeism (i.e., unjustified absences) ..... A—A —A —A—
- c) Classroom disturbance ..... A —A —A —A
- d) Cheating ..... A —A —A —A
- e) Profanity ..... A —A —A —A
- f) Vandalism ..... A —A —A —A
- g) Theft ..... A —A —A —A
- h) Intimidation or verbal abuse among students (including texting, emailing, etc.) ..... A—A —A —A
- i) Physical injury to students..... A —A —A —A
- j) Intimidation or verbal abuse of teachers or staff (including texting, emailing, etc.) ..... A—A —A —A
- k) Physical injury to teachers or staff..... A—A —A —A

**15**

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

Check one circle for each line.



- a) Arriving late or leaving early -- A—A —A —A—
- b) Absenteeism ..... A—A —A —A—

**16**

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

\_\_\_\_\_ years  
 Please round to the nearest whole number.

**17**

By the end of this school year, how many years will you have been a principal at this school?

\_\_\_\_\_ years  
 Please round to the nearest whole number.

**18**

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

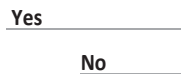
Check one circle only.

- Did not complete <Bachelor's or equivalent level—ISCED Level 6> --- A
- <Bachelor's or equivalent level—ISCED Level 6> --- A
- <Master's or equivalent level—ISCED Level 7> --- A
- <Doctor or equivalent level—ISCED Level 8> --- A

**19**

Do you hold the following qualifications or credentials in educational leadership?

Check one circle for each line.



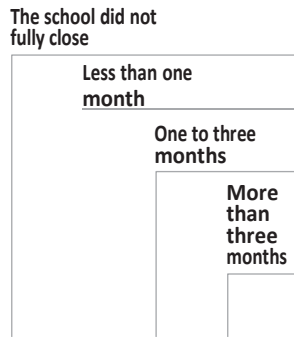
- a) <Certificate or license> ..... A —A
- b) <Master's or equivalent level—ISCED Level 7> ..... A —A
- c) <Doctor or equivalent level—ISCED Level 8>..... A —A



20

For how long was your school fully closed for in-person instruction because of the COVID-19 pandemic?

Check one circle for each line.

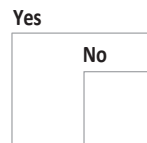


- a) <2019 - 2020> school year -- A  A  A  A
- b) <2020 - 2021> school year -- A  A  A  A
- c) <2021 - 2022> school year -- A  A  A  A

21

Did your school provide these additional remote learning resources during the COVID-19 pandemic?

Check one circle for each line.



- a) Printed learning materials for students (e.g., worksheets, textbooks) ----- A  A
- b) Digital devices (e.g., laptops, tablets) for students ----- A  A
- c) Online resources for students ----- A  A
- d) Pedagogical resources for teachers ----- A  A
- e) Digital devices (e.g., laptops, tablets) for teachers ----- A  A
- f) Technical support for teachers ----- A  A



Thank You

**Thank you for the thought, time, and effort you have put into completing this questionnaire.**









BOSTON  
COLLEGE

[timss.bc.edu](http://timss.bc.edu)

<Grade 8>



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International Association  
for the Evaluation of  
Educational Achievement

National Items for TIMSS 2023

**Student Qx**

The next few questions ask for your opinion about different things, so there are no right or wrong answers. How much do you agree or disagree with the following statements?<sup>1</sup>

<i>Select one answer for each row.</i>	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a. You have a certain amount of intelligence and you can't really do much to change it.	1 <input type="radio"/>	2 <input type="radio"/>	3 <input type="radio"/>	4 <input type="radio"/>
b. Your intelligence is something about you that you can't change very much.	1 <input type="radio"/>	2 <input type="radio"/>	3 <input type="radio"/>	4 <input type="radio"/>
c. You can learn new things, but you can't really change your basic intelligence.	1 <input type="radio"/>	2 <input type="radio"/>	3 <input type="radio"/>	4 <input type="radio"/>
d. No matter who you are, you can change your intelligence a lot.	1 <input type="radio"/>	2 <input type="radio"/>	3 <input type="radio"/>	4 <input type="radio"/>
e. You can always greatly change how intelligent you are.	1 <input type="radio"/>	2 <input type="radio"/>	3 <input type="radio"/>	4 <input type="radio"/>
f. No matter how much intelligence you have, you can always change it quite a bit.	1 <input type="radio"/>	2 <input type="radio"/>	3 <input type="radio"/>	4 <input type="radio"/>

**How many of the following ICT devices are currently used in your home?<sup>2</sup>**

*(Please mark one choice in each row)*

	<i>None</i>	<i>One</i>	<i>Two</i>	<i>Three or more</i>
a) Desktop or laptop computers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Tablet devices (e.g., iPad, Surface Pro, Kindle)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<sup>1</sup> Source: Middle Grades Longitudinal Study of 2017-18 (MGLS:2017)

<sup>2</sup> Source: International Computer and Information Literacy Study (ICILS) 2023 Proposed Field Test Student Questionnaire.

**Six national items for both grades<sup>3</sup>**

**B. Are you Hispanic or Latino?**

*Fill in **one** oval only.*

Yes, I am Hispanic or Latino --

No, I am not Hispanic or Latino --

**C. Which of the following best describes you?**

*Fill in ovals for **all** that apply.*

White --

Black or African American --

Asian --

American Indian or Alaska Native --

Native Hawaiian or other  
Pacific Islander --

**B. What language do you speak at home (other than English)?**

*Fill in **one** oval only.*

Spanish --

Other --  Please specify \_\_\_\_\_

**The following questions ask about activities you do  
outside of school.**

*Fill in only **one** oval for each row.*

- |   | Yes                        | No                         |
|---|----------------------------|----------------------------|
| a) Do you play on a sports team outside of school? .....  | ↓<br><input type="radio"/> | ↓<br><input type="radio"/> |
| b) Do you often play a musical instrument outside of school? .....                                      | <input type="radio"/>      | <input type="radio"/>      |
| c) Are you studying something in a class outside of school? .....                                       | <input type="radio"/>      | <input type="radio"/>      |
| d) Do you belong to a club outside of school (like Boy/Girl Scouts, 4-H, or Boys and Girls Club)? ..... | <input type="radio"/>      | <input type="radio"/>      |

<sup>3</sup> Source: 2019 TIMSS Student Questionnaire

2. How much effort did you apply to succeed on this test?

- Ⓐ No effort at all
- Ⓑ Very little effort
- Ⓒ Some effort
- Ⓓ Quite a bit of effort
- Ⓔ A lot of effort

**Adaptation for country-specific indicator of wealth:** A gaming system (e.g., PlayStation, Nintendo Switch, Xbox)

Two (2) items that are similar for grade 4 and grade 8<sup>3</sup>

Grade 4	Grade 8															
<p><b>9</b> _____</p> <p>Are you preparing for or have you participated in a science club, a science fair, or a science competition?</p> <p style="text-align: center;"><i>Fill in one oval only.</i></p> <p>Yes -- <input type="radio"/></p> <p>No -- <input type="radio"/></p>	<p><b>11</b> _____</p> <p>In this school year, are you preparing for or have you participated in any of the following activities?</p> <p style="text-align: center;"><i>Fill in only one oval for each row.</i></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;"></th> <th style="width: 10%; text-align: center;">Yes</th> <th style="width: 10%; text-align: center;">No</th> </tr> <tr> <td></td> <td style="text-align: center;">↓</td> <td style="text-align: center;">↓</td> </tr> </thead> <tbody> <tr> <td>a) Science fair .....</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> <tr> <td>b) Science club .....</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> <tr> <td>c) Science competition .....</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> </tbody> </table>		Yes	No		↓	↓	a) Science fair .....	<input type="radio"/>	<input type="radio"/>	b) Science club .....	<input type="radio"/>	<input type="radio"/>	c) Science competition .....	<input type="radio"/>	<input type="radio"/>
	Yes	No														
	↓	↓														
a) Science fair .....	<input type="radio"/>	<input type="radio"/>														
b) Science club .....	<input type="radio"/>	<input type="radio"/>														
c) Science competition .....	<input type="radio"/>	<input type="radio"/>														

Grade 4	Grade 8												
<p><b>10</b> _____</p> <p>Have you ever repeated a grade in elementary school?</p> <p style="text-align: center;"><i>Fill in one oval only.</i></p> <p>Yes -- <input type="radio"/></p> <p>No -- <input type="radio"/></p>	<p><b>13</b> _____</p> <p>Have you ever repeated a grade?</p> <p style="text-align: center;"><i>Fill in only one oval for each row.</i></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;"></th> <th style="width: 10%; text-align: center;">Yes</th> <th style="width: 10%; text-align: center;">No</th> </tr> <tr> <td></td> <td style="text-align: center;">↓</td> <td style="text-align: center;">↓</td> </tr> </thead> <tbody> <tr> <td>a) In elementary school .....</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> <tr> <td>b) In middle or junior high school .....</td> <td style="text-align: center;"><input type="radio"/></td> <td style="text-align: center;"><input type="radio"/></td> </tr> </tbody> </table>		Yes	No		↓	↓	a) In elementary school .....	<input type="radio"/>	<input type="radio"/>	b) In middle or junior high school .....	<input type="radio"/>	<input type="radio"/>
	Yes	No											
	↓	↓											
a) In elementary school .....	<input type="radio"/>	<input type="radio"/>											
b) In middle or junior high school .....	<input type="radio"/>	<input type="radio"/>											

**Teacher**

One item that is the same for all teachers<sup>4</sup>

What year did you start teaching?

\_\_\_\_\_ *Please write in a year.*

One item that is similar for math and science teachers for grade 8<sup>4</sup>

<p><b>Grade 8 – Math</b></p> <p><b>Which best describes the mathematics course you are teaching to the class with the TIMSS students?</b></p> <p><i>Fill in <b>one</b> circle only.</i></p> <p>a) Basic or general eighth-grade math (not algebra or pre-algebra)----- ①</p> <p>b) Pre-algebra or introduction to algebra ----- ②</p> <p>c) Two-year pre-algebra----- ③</p> <p>d) Algebra I (one-year course) ----- ④</p> <p>e) Algebra I (first year of a two-year Algebra I course) ----- ⑤</p> <p>f) Algebra I (second year of two-year Algebra I course) ----- ⑥</p> <p>g) Geometry ----- ⑦</p> <p>h) Algebra II ----- ⑧</p> <p>i) Integrated or sequential math----- ⑨</p> <p>j) Other math class ----- ⑩</p>	<p><b>Grade 8 – Science</b></p> <p><b>Which best describes the science course you are teaching to the class with the TIMSS students?</b></p> <p><i>Fill in <b>one</b> circle only.</i></p> <p>a) General science (several content areas of science taught separately)----- ①</p> <p>b) Integrated science (several content areas of science combined and taught together throughout the year) ----- ②</p> <p>c) Life science (e.g., biology, ecosystems, human health)----- ③</p> <p>d) Physical science (e.g., physics or chemistry)----- ④</p> <p>e) Earth science (e.g., geology, Earth and the solar system, fossils)----- ⑤</p>
--	--

<sup>4</sup> TIMSS 2019 Teacher Questionnaire

**School**

**Two items that are the same for all grades<sup>5</sup>**

**Of the students currently enrolled in your school, what percentage has been identified as limited-English proficient (LEP)/English language learners (ELL)?**

*Fill in one circle only.*

- 0% -- ①
- 1 - 5% -- ②
- 6 - 10% -- ③
- 11 - 25% -- ④
- 26 - 50% -- ⑤
- 51 - 75% -- ⑥
- 76 - 90% -- ⑦
- Over 90% -- ⑧

**Around the 1st of October 2018, what percentage of students at this school were eligible to receive free or reduced-price lunches through the National School Lunch Program?**

\_\_\_\_\_ percentage of students  
*Write in the number.*

<sup>5</sup> TIMSS 2019 School Questionnaire