

Identification Label

TRENDS IN INTERNATIONAL MATHEMATICS AND SCIENCE STUDY

# Student Questionnaire

## <Grade 8>

<TIMSS National Research Center Name> <Address>





TIMSS & PIRLS International Study Center Lynch School of Education BOSTON COLLEGE

## Directions

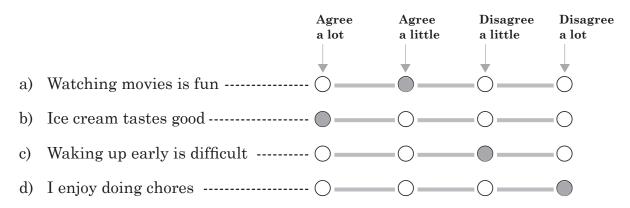
In this booklet, you will find questions about yourself. Some questions ask for facts while other questions ask for your opinion.

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 🔘		
	No ()		
Example 2 How often do you do these t	-	circle for each	a line.
	Every day	Almost every day	Sometimes Never
a) I talk with my friends			
b) I play sports			00
c) I ride a skateboard			

## Example 3

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



- 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 -- () Boy -- ()

<0ther>-- ()

## 2

### When were you born?

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

#### a) Month b) Year January -- 🔿 2006 -- 🔘 2007 -- 🔘 February -- () 2008 -- () March -- () 2009 -- 🔿 April -- 🔿 May -- 🔿 2010 -- 🔘 June -- 🔿 2011 -- () July -- 🔿 2012 -- 🔘 August -- () 2013 -- () September -- () 2014 -- () Other -- $\bigcirc$ October -- 🔿 November -- () December -- ()

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

Fill one circle only.

Always -- () Almost always -- () Sometimes -- () Never -- ()

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  $(0-10 \text{ books}) - \bigcirc$ 

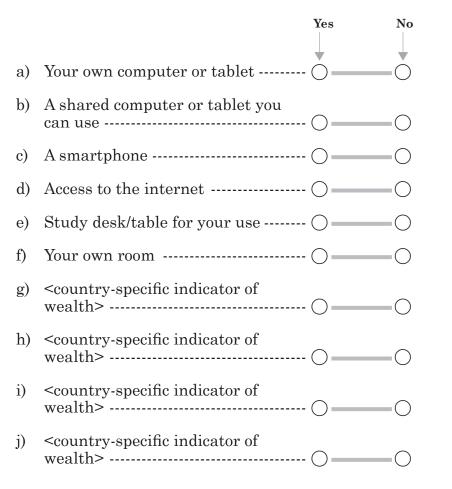
Enough to fill one shelf  $(11-25 \text{ books}) \dots \bigcirc$ 

Enough to fill one bookcase  $(26-100 \text{ books}) - \bigcirc$ 

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

Enough to fill three or more bookcases (more than 200) --  $\bigcirc$ 

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

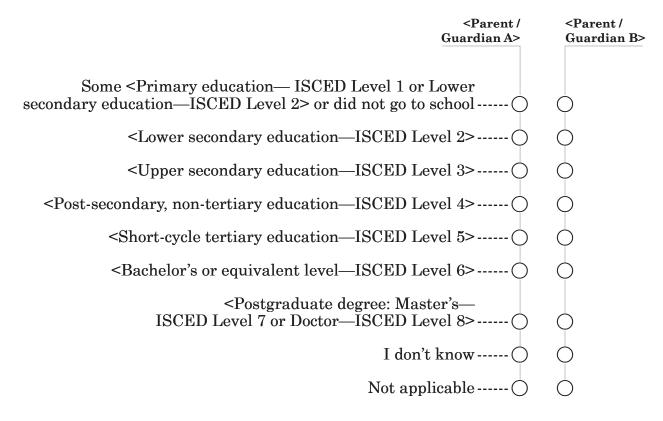


The following questions are about your <Parent/Guardian A> and <Parent/Guardian B>. <If you have only one parent/guardian, answer for Parent/Guardian A. If you have two parents/guardians, choose one for Parent/Guardian A and the other for Parent/Guardian B.>



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

Check one circle in each column.



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

Fill one circle only.

Finish <lower secondary<br="">education—ISCED Level 2&gt; 〇</lower>
Finish <upper secondary<br="">education—ISCED Level 3&gt; 〇</upper>
Finish <post-secondary, non-tertiary<br="">education—ISCED Level 4&gt;〇</post-secondary,>
Finish <short-cycle tertiary<br="">education—ISCED Level 5&gt; 〇</short-cycle>
Finish <bachelor's equivalent<br="" or="">level—ISCED Level 6&gt;</bachelor's>
Finish <postgraduate degree:<br="">Master's—ISCED Level 7 or Doctor—ISCED Level 8&gt;</postgraduate>

### 8

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

### A. <Parent/Guardian A>

Fill **one** circle only.

Yes -- () No -- ()

I don't know -- 🔿

Not applicable -- 🔿

### B. <Parent/Guardian B>

Fill one circle only.

Yes -- O

No -- 🔿

I don't know --  $\bigcirc$ 

Not applicable -- 🔿

A. Were you born in <country>?

Fill one circle only.

Yes 🔿	Yes
(If Yes, go to #10)	
No ()	No

### 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 -- 🔘

5 to 10 years old --  $\bigcirc$ 

Younger than 5 years old --  $\bigcirc$ 

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### About how often are you absent from school?

Fill one circle only.

Once a week -- 🔿

Once every two weeks --  $\bigcirc$ 

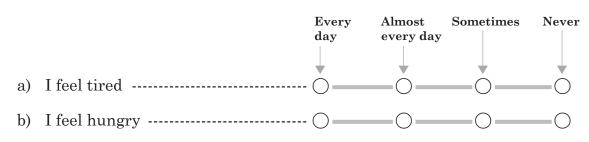
Once a month -- 🔿

Once every two months --  $\bigcirc$ 

Never or almost never --  $\bigcirc$ 

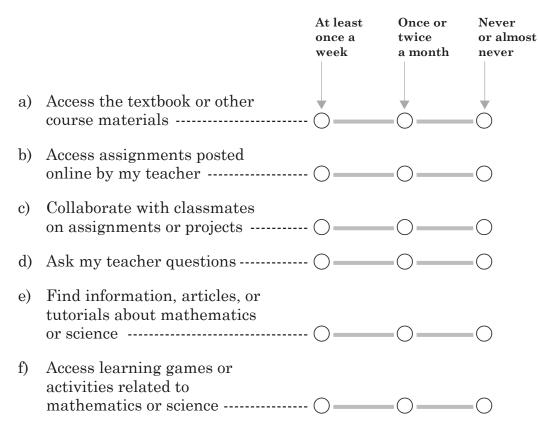
#### How often do you feel this way when you arrive at school?

Fill one circle for each line.



### 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)?



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		-0	-0	
b)	I can create school presentations using a computer, tablet, or smartphone	- ()	-0	0	
c)	I can create tables, charts, and graphs using a computer, tablet, or smartphone	- ()	-0	0	
d)	I can find information that I need online	- ()	$\bigcirc$	$\bigcirc$	$\bigcirc$
e)	I can tell if a website is trustworthy	- ()	$\bigcirc$	$\bigcirc$	$\bigcirc$
f)	I can easily do new things on computers, laptops, or smartphones	- ()	0	0	$\bigcirc$
g)	I can help my friends or family members with using their computers, laptops, or smartphones	- ()	-0	0	$\bigcirc$

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14 \_\_\_\_\_

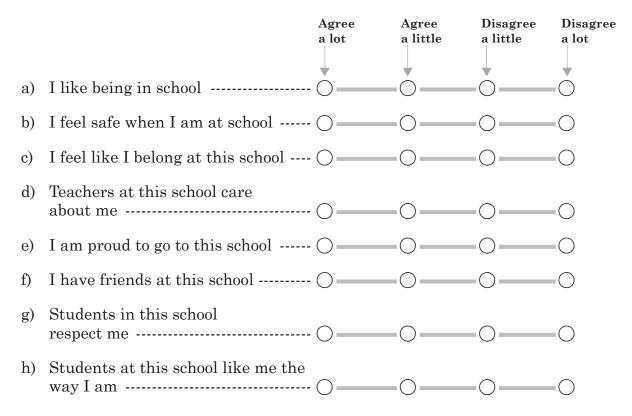
### How much do you agree with these statements?

		Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	I care about the protection of plants and animals	- •	- O		-0
b)	Nature exists to benefit humans regardless of the consequences	- ()	$\bigcirc$	$\bigcirc$	$\bigcirc$
c)	The most important reason for protecting natural areas is so people can enjoy them	- ()	$\bigcirc$	0	$-\bigcirc$
d)	I am confident that environmental problems will be solved by science and technology	- ()	0	0	0
e)	It makes me sad when nature is destroyed by humans	- ()	0	$\bigcirc$	$\bigcirc$
f)	I enjoy finding out what kinds of plants and animals live in my surrounding area	- ()	0	0	-0
g)	I enjoy being in nature (e.g., <forests, deserts="" parks,="">)</forests,>	- ()	$\bigcirc$		$-\bigcirc$
h)	Protecting nature is more important than economic growth	- ()	0	0	$\bigcirc$
i)	Addressing climate change should be a high priority	- ()	$\bigcirc$	0	$\bigcirc$

## How often do you do these things to help the natural environment?

		Every day	Almost every day	Sometimes	Never
a)	I try to reuse things (e.g., <bags, bottles&gt;)</bags, 				
b)	I try to use less resources (e.g., <water, food="">)</water,>	· ()			-0
c)	I talk about how to help the environment (e.g., <saving water,<br="">picking up trash&gt;)</saving>	· ()			_0
d)	I try to learn about environmental problems (e.g., <climate change,<br="">endangered animals&gt;)</climate>	· ()		O	_0
e)	I try to participate in group activities to help the environment	· ()	-0	$\bigcirc$	-0
f)	I tell my friends when they are doing things that harm the environment	- ()	0		-0

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



17.

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?

		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)		<b>O</b>		
b)	Spread lies about me		$\bigcirc$	$\bigcirc$	$\bigcirc$
c)	Shared my secrets with others		$\bigcirc$	$\bigcirc$	$\bigcirc$
d)	Refused to talk to me		$\bigcirc$	$\bigcirc$	$\bigcirc$
e)	Said hurtful things to or about me because of my cultural background (e.g., <race, ethnicity,="" religion="">)</race,>	. ()	0	$\bigcirc$	
f)	Stole something from me		$\bigcirc$	0	$\bigcirc$
g)	Made me do things I didn't want to do	· ()	0	0	$\bigcirc$
h)	Sent me nasty or hurtful messages online		0	0	
i)	Shared nasty or hurtful things about me online		0	0	$\bigcirc$
j)	Shared embarrassing photos of me online		0	0	$\bigcirc$
k)	Threatened me		$\bigcirc$	$\bigcirc$	$\bigcirc$
l)	Physically hurt me		$\bigcirc$	0	$\bigcirc$
m)	Excluded me from their group (e.g., parties, messaging)		0	0	$\bigcirc$
n)	Damaged something of mine on purpose		0	0	$\bigcirc$

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

Fill one circle only.

Every or almost every lesson -- 〇

About half the lessons --  $\bigcirc$ 

Some lessons --  $\bigcirc$ 

Never -- 🔿

## 19.

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

		Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	I enjoy learning mathematics	· •	- O	<b>O</b>	$\bigcirc$
b)	I wish I did not have to study mathematics	· ()	$\bigcirc$	$\bigcirc$	$\bigcirc$
c)	Mathematics is boring	· ()	$\bigcirc$	0	$\bigcirc$
d)	I learn many interesting things in mathematics	- ()	0	$\bigcirc$	$\bigcirc$
e)	I like mathematics	· ()	$\bigcirc$	0	$\bigcirc$
f)	I like any schoolwork that involves numbers	- ()	0	$\bigcirc$	$\bigcirc$
g)	I like to solve mathematics problems	- ()	0	0	$\bigcirc$
h)	I look forward to mathematics class	- ()	0	0	$\bigcirc$
i)	Mathematics is one of my favorite subjects	· ()	0	0	$\bigcirc$

## How much do you agree with these statements about your <u>mathematics lessons</u>?

#### 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				
b)	My teacher is easy to understand	$\bigcirc$	0	0	$\bigcirc$
c)	My teacher has clear answers to my questions		0	$\bigcirc$	$\bigcirc$
d)	My teacher is good at explaining mathematics	0	0	$\bigcirc$	$\bigcirc$
e)	My teacher does a variety of things to help us learn		0	$\bigcirc$	$\bigcirc$
f)	My teacher explains a topic again when we don't understand		0	$\bigcirc$	$\bigcirc$
g)	My teacher gives me helpful feedback on my work		0	$\bigcirc$	$\bigcirc$
h)	My teacher asks me to show what I have learned		0	$\bigcirc$	$\bigcirc$
i)	My teacher asks me to explain my answers		0	$\bigcirc$	$\bigcirc$
j)	My teacher asks us to apply what we have learned in new situations	· ()	0	0	0

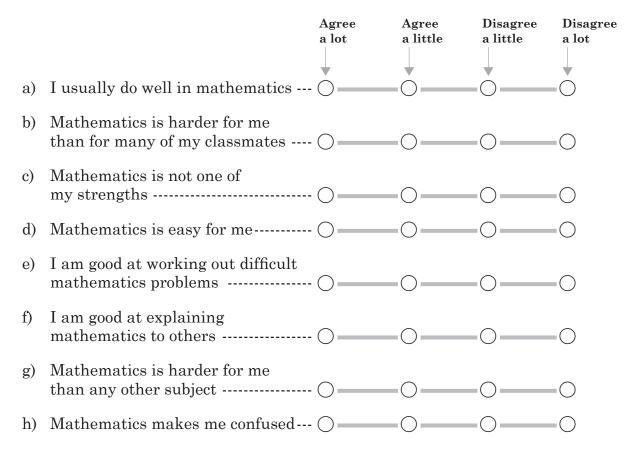
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## $\mathbf{21}$

## How often do these things happen in your <u>mathematics lessons</u>?

		Every or almost every lesson	About half the lessons	Some lessons	Never
a)	Students don't listen to what the teacher says	- ()		-0	-0
b)	There is too much noise for students to work well	- ()			_0
c)	My teacher has to wait a long time for students to be quiet	- ()			_0
d)	Students interrupt the teacher	- ()	-0		-
e)	Students do not follow the classroom rules	- ()			-0
f)	Other students' behavior makes it hard for me to concentrate	- ()			_0

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



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

 $\mathbf{23}$ 

		Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	I think learning mathematics will help me in my daily life				
b)	I need mathematics to learn other school subjects	- ()	0	0	
c)	I need to do well in mathematics to get into the <university> of my choice</university>	- ()	0	0	
d)	I need to do well in mathematics to get the job I want	- ()	0	0	$\bigcirc$
e)	I would like a job that involves using mathematics	- ()	0	0	$\bigcirc$
f)	It is important to learn about mathematics to get ahead in the world	- ()	$\bigcirc$	$\bigcirc$	$\bigcirc$
g)	Learning mathematics will give me more job opportunities when I am an adult	- ()	$\bigcirc$	$\bigcirc$	$\bigcirc$
h)	My parents think that it is important that I do well in mathematics	- ()	$\bigcirc$	$\bigcirc$	$\bigcirc$
i)	It is important to do well in mathematics	- ()	0	0	$\bigcirc$

## $\mathbf{24}$

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

Fill one circle only.

At least once a week --  $\bigcirc$ 

Once or twice a month --  $\bigcirc$ 

A few times a year --  $\bigcirc$ 

Never -- 🔿

25.

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

		Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	I enjoy learning science	()	-0	-0	
b)	I wish I did not have to study science	()		$\bigcirc$	$\bigcirc$
c)	Science is boring	()	-0	-0	
d)	I learn many interesting things in science	()	-0	$\bigcirc$	$\bigcirc$
e)	I like science	()	-0	-0	
f)	I look forward to learning science in school	()	-0	0	$\bigcirc$
g)	Science teaches me how things in the world work	()	-0	0	$\bigcirc$
h)	I like to conduct science experiments	()	-0	-0	$\bigcirc$
i)	Science is one of my favorite subjects	()	-0	0	$\bigcirc$

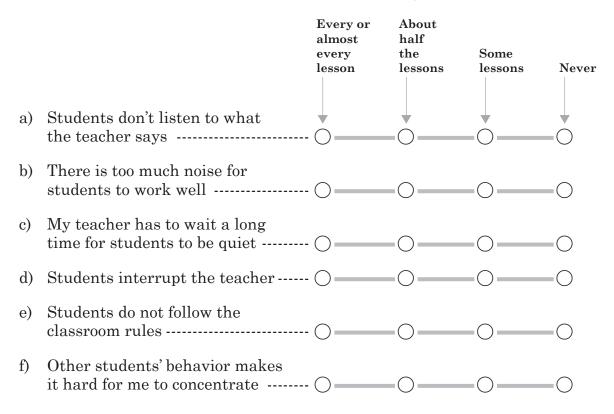
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## How much do you agree with these statements about your <u>science lessons</u>?

		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	· •			
b)	My teacher is easy to understand	· O	0	0	$\bigcirc$
c)	My teacher has clear answers to my questions	- ()	$\bigcirc$	$\bigcirc$	$\bigcirc$
d)	My teacher is good at explaining science	- ()	0	0	$\bigcirc$
e)	My teacher does a variety of things to help us learn		0	$\bigcirc$	$\bigcirc$
f)	My teacher explains a topic again when we don't understand	· ()	0	$\bigcirc$	$\bigcirc$
g)	My teacher gives me helpful feedback on my work	· ()	0	$\bigcirc$	$\bigcirc$
h)	My teacher asks me to show what I have learned		$\bigcirc$	$\bigcirc$	$\bigcirc$
i)	My teacher asks me to explain my answers	- ()	$\bigcirc$	$\bigcirc$	$\bigcirc$
j)	My teacher asks us to apply what we have learned in new situations	· O ——	$\bigcirc$	0	$\bigcirc$

## $\mathbf{27}$

## How often do these things happen in your <u>science lessons</u>?



 $\mathbf{28}$ 

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	- 0	0	0	$\bigcirc$
b)	Science is harder for me than for many of my classmates	- ()	0	$\bigcirc$	$\bigcirc$
c)	Science is not one of my strengths	- ()	0	0	$\bigcirc$
d)	Science is easy for me	- ()	$\bigcirc$	$\bigcirc$	$\bigcirc$
e)	I am good at working out difficult science problems	- ()	0	0	$\bigcirc$
f)	I am good at explaining science to others	- ()	0	0	$\bigcirc$
g)	Science is harder for me than any other subject	- ()	0	$\bigcirc$	$\bigcirc$
h)	Science makes me confused	- ()	$\bigcirc$	$\bigcirc$	$\bigcirc$

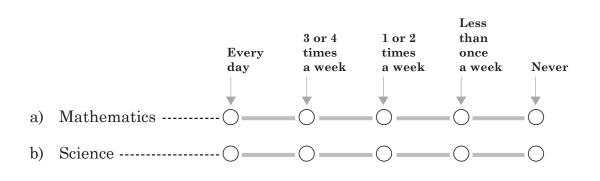
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## How much do you agree with these statements about science?

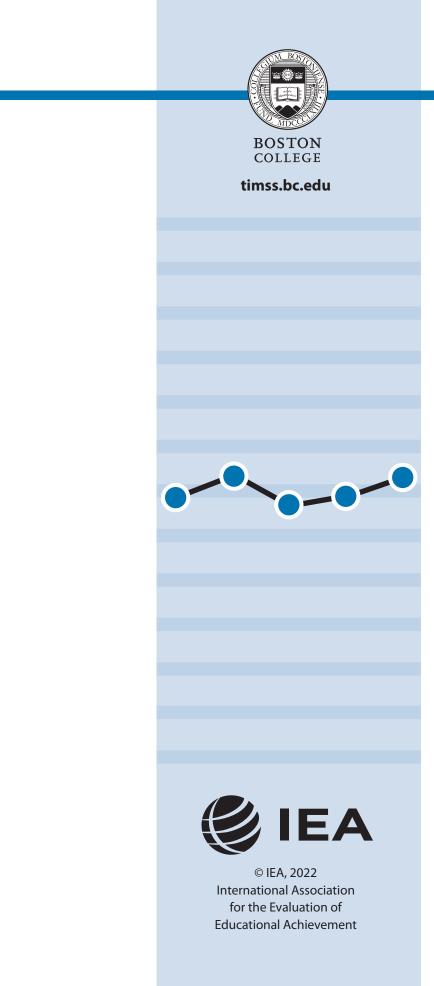
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		Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	I think learning science will help me in my daily life				
b)	I need science to learn other school subjects	- ()	$\bigcirc$	$\bigcirc$	$\bigcirc$
c)	I need to do well in science to get into the <university> of my choice ·</university>	- ()	$\bigcirc$	$\bigcirc$	$\bigcirc$
d)	I need to do well in science to get the job I want	- ()	$\bigcirc$	$\bigcirc$	$\bigcirc$
e)	I would like a job that involves using science	- ()	$\bigcirc$	$\bigcirc$	$\bigcirc$
f)	It is important to learn about science to get ahead in the world	- ()	0	0	0
g)	Learning science will give me more job opportunities when I am an adult	- ()	0	0	$\bigcirc$
h)	My parents think that it is important that I do well in science	- ()	0	0	$\bigcirc$
i)	It is important to do well in science	- ()	$\bigcirc$	0	$\bigcirc$

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







<Grade 8>