

TRENDS IN INTERNATIONAL MATHEMATICS AND SCIENCE STUDY

Student Questionnaire

Separate Science Subjects

<Grade 8>

<TIMSS National Research Center Name>

<Add, .. >

IEA, 2018

TIMSS & PIRLS
I S C
Lynch School of Education
BOSTON COLLEGE

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

n



Example 3

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

About you

1

Are you a girl or a boy?

Girl -- A

Boy -- A

2

When were you born?

a) Month

January -- A

February -- A

March -- A

April -- A

May -- A

June -- A

July -- A

August -- A

September -- A

October -- A

November -- A

December -- A

b) Year

2001 -- A

2002 -- A

2003 -- A

2004 -- A

2005 -- A

2006 -- A

2007 -- A

2008 -- A

2009 -- A

Other -- A

3

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

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.)

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

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Do you have any of these things at your home?

Nooneon0.098

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>?

A. <Parent/Guardian A>

Some <Primary education— ISCED Level 1 or
Lower secondary education—ISCED Level 2>
or did not go to school -- A

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

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

<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

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

I don't know -- A

Not applicable -- A

6 (continued)

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

B. <Parent/Guardian B>

Some <Primary education— ISCED Level 1 or
Lower secondary education—ISCED Level 2>
or did not go to school -- A

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

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

<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

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

I don't know -- A

Not applicable -- A

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How far in your education do you expect to go?

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

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

A. <Parent/Guardian A>

Yes -- A

No -- A

I don't know-- A

Not applicable -- A

B. <Parent/Guardian B>

Yes -- A

No -- A

I don't know-- A

Not applicable -- A

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A. Were you born in <country>?

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>?

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?

Once a week -- A

Younger than a4

14

During this school year, how often have other students from your school done any of the following things to you, including through texting or the Internet?

	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) Insulted a member of my family ---	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 or videos of me -----	A	A	A	A

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

Every or almost every lesson -- A

About half the lessons -- A

Some lessons -- A

Never -- A

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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 -----	△	△	△	△
b) I wish I did not have to study mathematics -----	△	△	△	△
c) Mathematics is boring -----	△	△	△	△
d) I learn many interesting things in mathematics -----	△	△	△	△
e) I like mathematics -----	△	△	△	△
f) I like any schoolwork that involves numbers -----	△	△	△	△
g) I like to solve mathematics problems -----	△	△	△	△
h) I look forward to mathematics class -----	△	△	△	△
i) Mathematics is one of my favorite subjects -----	△	△	△	△

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How often do these things happen in your mathematics lessons?

	Every or almost every lesson	About half the lessons	Some lessons	Never
	↓	↓	↓	↓
a) Students don't listen to what the teacher says -----	△	△	△	△
b) There is disruptive noise -----	△	△	△	△
c) It is too disorderly for students to work well -----	△	△	△	△
d) My teacher has to wait a long time for students to quiet down -----	△	△	△	△
e) Students interrupt the teacher -----	△	△	△	△
f) My teacher has to keep telling us to follow the classroom rules -----	△	△	△	△

How much do you agree with these statements about mathematics?

	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

Biology in School

21

Are you studying biology in school this year?

Yes -- A

No -- A 

(If No, go to #26)

22

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

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 biology?

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

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

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I know what my teacher expects me to do -----	△	△	△	△
b) My teacher is easy to understand --	△	△	△	△
c) My teacher has clear answers to my questions -----	△	△	△	△
d) My teacher is good at explaining biology -----	△	△	△	△
e) My teacher does a variety of things to help us learn -----	△	△	△	△
f) My teacher links new lessons to what I already know -----	△	△	△	△
g) My teacher explains a topic again when we don't understand ---	△	△	△	△

25

How much do you agree with these statements about biology?

	Agree a lot	Agree a little	Disagree a little	Disagree a lot					
a) I usually do well in biology -----	A	_____	A	_____	A	_____	A	_____	A
b) Biology is more difficult for me than for many of my classmates ----	A	_____	A	_____	A	_____	A	_____	A
c) Biology is not one of my strengths -----	A	_____	A	_____	A	_____	A	_____	A
d) I learn things quickly in biology -----	A	_____	A	_____	A	_____	A	_____	A
e) I am good at working out difficult biology problems -----	A	_____	A	_____	A	_____	A	_____	A
f) My teacher tells me I am good at biology -----	A	_____	A	_____	A	_____	A	_____	A
g) Biology is harder for me than any other subject -----	A	_____	A	_____	A	_____	A	_____	A

Earth Science in School

26

Are you studying earth science in school this year?

Yes -- A

No -- A 

(If No, go to #31)

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

At least once a week -- A

Once or twice a month -- A

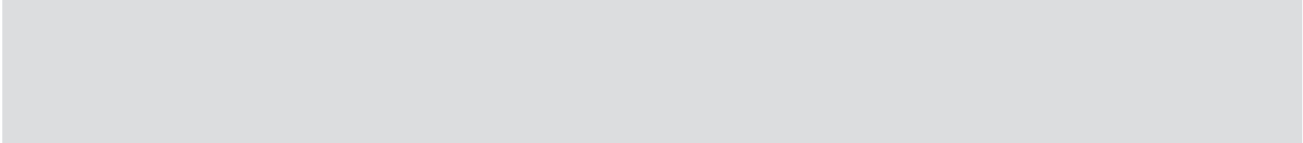
A few times a year -- A

Never -- A

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

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I know what my teacher expects me to do -----	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 earth science -----	A	A	A	A
e) My teacher does a r .		p	se	ng



Chemistry in School

31

Are you studying chemistry in school this year?

Yes --

No --

33

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

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

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

Agree
a lot

Agree
a little

Disagree
a little

Disagree
a lot

Physics in School

36

Are you studying physics in school this year?

Yes -- A

No -- A 

(If No, go to #41)

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

At least once a week -- A

Once or twice a month -- A

A few times a year -- A

Never -- A

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

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

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How much do you agree with these statements about physics?

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I usually do well in physics -----	△	△	△	△
b) Physics is more difficult for me than for many of my classmates ----	△	△	△	△
c) Physics is not one of my strengths -----	△	△	△	△
d) I learn things quickly in physics -----	△	△	△	△
e) I am good at working out difficult physics problems -----	△	△	△	△
f) My teacher tells me I am good at physics -----	△	△	△	△
g) Physics is harder for me than any other subject -----	△	△	△	△
h) Physics makes me confused -----	△	△	△	△

Learning Science

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How much do you agree with these statements about science (including biology, earth science, chemistry, and physics)?

	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

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

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A. During the last 12 months, have you attended extra lessons or tutoring not provided by the school in the following subjects?

	Yes, to excel in class	Yes, to keep up in class	No
a) Mathematics	A	A	A
b) Science (including biology, earth science, chemistry, and physics)	A	A	A

B. For how many of the last 12 months have you attended extra lessons or tutoring?

	Did not attend	Less than 4 months	4-8 months	More than 8 months
a) Mathematics	A	A	A	A
b) Science (including biology, earth science, chemistry, and physics)	A	A	A	A



Thank You!



<Grade 8>