



IEA

TIMSS
LONGITUDINAL

2023–2024

Identification Label

TRENDS IN INTERNATIONAL MATHEMATICS AND SCIENCE STUDY

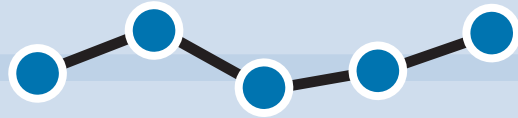
Student Questionnaire

Separate Science Subjects

<Grade 9>

<TIMSS National Research Center Name>

<Address>



IEA

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 things?

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

	Every day	Almost every day	Sometimes	Never
a) I talk with my friends	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) I play sports	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) I ride a skateboard	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

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 checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) Ice cream tastes good -----	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) Waking up early is difficult -----	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
d) I enjoy doing chores -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<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: ~~☐~~. 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.
- You may recognize some of these questions from a questionnaire you completed last school year. Please respond to the questions again to give information about your experiences this school year.

About You

1

Which of these describes you?

*Fill **one** circle only.*

Girl -- ☐

Boy -- ☐

<Other> -- ☐

2

When were you born?

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

a) Month

January -- ☐

February -- ☐

March -- ☐

April -- ☐

May -- ☐

June -- ☐

July -- ☐

August -- ☐

September -- ☐

October -- ☐

November -- ☐

December -- ☐

b) Year

2006 -- ☐

2007 -- ☐

2008 -- ☐

2009 -- ☐

2010 -- ☐

2011 -- ☐

2012 -- ☐

2013 -- ☐

2014 -- ☐

Other -- ☐

3

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

*Fill **one** circle only.*

Always --○

Almost always --○

Sometimes --○

Never --○

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) --○

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

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

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

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

5

Do you have any of these things at your home?

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

- | | Yes
↓ | No
↓ |
|---|-----------------------|-----------------------|
| a) Your own computer or tablet | <input type="radio"/> | <input type="radio"/> |
| b) A shared computer or tablet you
can use | <input type="radio"/> | <input type="radio"/> |
| c) A smartphone | <input type="radio"/> | <input type="radio"/> |
| d) Access to the internet | <input type="radio"/> | <input type="radio"/> |
| e) Study desk/table for your use | <input type="radio"/> | <input type="radio"/> |
| f) Your own room | <input type="radio"/> | <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.

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

7

How far in your education do you expect to go?

*Fill **one** circle only.*

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

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

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

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

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

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

8

About how often are you absent from school?

*Fill **one** circle only.*

Once a week -- ☐

Once every two weeks -- ☐

Once a month -- ☐

Once every two months -- ☐

Never or almost never -- ☐

9

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"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) I feel hungry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) I feel <unwell> (e.g., headache, stomachache)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) I feel happy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) I feel worried about the school day	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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"/> |

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

12

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

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

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

13

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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) I feel safe when I am at school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) I feel like I belong at this school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) Teachers at this school care about me	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) I am proud to go to this school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) I have friends at this school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) Students in this school respect me	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h) Students at this school like me the way I am	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i) I am satisfied with school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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

15

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

*Fill **one** circle only.*

Every or almost every lesson -- ☐

About half the lessons -- ☐

Some lessons -- ☐

Never -- ☐

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"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| b) I learn many interesting
things in mathematics | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| c) I like mathematics | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| d) I like any schoolwork that
involves numbers | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| e) I like to solve
mathematics problems | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| f) I look forward to
mathematics class | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| g) Mathematics is one of
my favorite subjects | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

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"/>
j) My teacher asks us to apply what we have learned in new situations -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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"/> |

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 --- | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| b) Mathematics is harder for me
than for many of my classmates ---- | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| c) Mathematics is not one of
my strengths | <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
mathematics problems | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| f) I am good at explaining
mathematics to others | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| g) Mathematics is harder for me
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"/> |

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 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| b) I need mathematics to learn other school subjects | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| c) I need to do well in mathematics to get into the <university> of my choice | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| d) I need to do well in mathematics to get the job I want | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| e) I would like a job that involves using mathematics | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| f) It is important to learn about mathematics to get ahead in the world | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| g) Learning mathematics will give me more job opportunities when I am an adult | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| h) My parents think that it is important that I do well in mathematics | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| i) It is important to do well in mathematics | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Biology in School

21

Are you studying biology in school this year?

*Fill **one** circle only.*

Yes -- ☐

No -- ☐ 

(If No, go to #27)

22

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

*Fill **one** circle only.*

At least once a week -- ☐

Once or twice a month -- ☐

A few times a year -- ☐

Never -- ☐

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

Fill **one** circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I enjoy learning biology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) I learn many interesting things in biology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) I like biology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) I look forward to learning biology in school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) Biology teaches me how things in the world work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) I like to conduct biology experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) Biology is one of my favorite subjects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How much do you agree with these statements about your biology 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 biology -----	<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"/>
j) My teacher asks us to apply what we have learned in new situations -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**How often do these things happen in your
biology 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"/>

How much do you agree with these statements about biology?

Fill **one** circle for each line.

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

Earth Science in School

27

Are you studying earth science in school this year?

*Fill **one** circle only.*

Yes -- ☐

No -- ☐ 

(If No, go to #33)

28

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

*Fill **one** circle only.*

At least once a week -- ☐

Once or twice a month -- ☐

A few times a year -- ☐

Never -- ☐

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

Fill **one** circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I enjoy learning earth science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) I learn many interesting things in earth science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) I like earth science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) I look forward to learning earth science in school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) Earth science teaches me how things in the world work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) I like to conduct earth science experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) Earth science is one of my favorite subjects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How much do you agree with these statements about
your earth 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 earth 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"/> |
| j) My teacher asks us to apply what we have learned in new situations ----- | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

**How often do these things happen in your
earth 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"/>	<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"/>

How much do you agree with these statements about earth 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 earth science -- | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| b) Earth science is harder
for me than for many of
my classmates | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| c) Earth science is not one of
my strengths | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| d) Earth science is easy for me | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| e) I am good at working out
difficult earth science problems | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| f) I am good at explaining earth
science to others | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| g) Earth science is harder for me
than any other subject | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| h) Earth science makes
me confused | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Chemistry in School

33

Are you studying chemistry in school this year?

*Fill **one** circle only.*

Yes -- ☐

No -- ☐ 

(If No, go to #39)

34

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

*Fill **one** circle only.*

At least once a week -- ☐

Once or twice a month -- ☐

A few times a year -- ☐

Never -- ☐

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

Fill **one** circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I enjoy learning chemistry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) I learn many interesting things in chemistry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) I like chemistry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) I look forward to learning chemistry in school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) Chemistry teaches me how things in the world work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) I like to conduct chemistry experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) Chemistry is one of my favorite subjects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How much do you agree with these statements about your chemistry 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 chemistry -----	<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"/>
j) My teacher asks us to apply what we have learned in new situations -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How often do these things happen in your chemistry 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"/>

How much do you agree with these statements about chemistry?

Fill **one** circle for each line.

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

Physics in School

39

Are you studying physics in school this year?

*Fill **one** circle only.*

Yes -- ☐

No -- ☐ 

(If No, go to #45)

40

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

*Fill **one** circle only.*

At least once a week -- ☐

Once or twice a month -- ☐

A few times a year -- ☐

Never -- ☐

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

Fill **one** circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) I enjoy learning physics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) I learn many interesting things in physics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) I like physics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) I look forward to learning physics in school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) Physics teaches me how things in the world work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) I like to conduct physics experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) Physics is one of my favorite subjects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How much do you agree with these statements about your physics 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 physics -----	<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"/>
j) My teacher asks us to apply what we have learned in new situations -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**How often do these things happen in your
physics 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"/>

How much do you agree with these statements about physics?

Fill **one** circle for each line.

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

45

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

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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) I need science to learn other school subjects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) I need to do well in science to get into the <university> of my choice -	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) I need to do well in science to get the job I want	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) I would like a job that involves using science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) It is important to learn about science to get ahead in the world	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) Learning science will give me more job opportunities when I am an adult	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h) My parents think that it is important that I do well in science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i) It is important to do well in science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Homework

46

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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) Biology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) Earth science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) Chemistry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) Physics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If your teacher “Never” gives you homework in these subjects, thank you for completing this questionnaire!

47

When your teacher gives you homework in the following subjects, about how much time do you usually spend on your homework?

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

	30 minutes or less	31-60 minutes	More than 60 minutes
a) Mathematics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) Biology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) Earth science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) Chemistry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) Physics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

48

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

Fill **one** circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) My teacher gives us interesting mathematics homework	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) Mathematics homework helps me understand the material better	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) I try my best on my mathematics homework	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

49

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

Fill **one** circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) My teacher gives us interesting biology homework	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) Biology homework helps me understand the material better	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) I try my best on my biology homework	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

50

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

Fill **one** circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) My teacher gives us interesting earth science homework	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) Earth science homework helps me understand the material better	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) I try my best on my earth science homework	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

51

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

Fill **one** circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) My teacher gives us interesting chemistry homework	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) Chemistry homework helps me understand the material better	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) I try my best on my chemistry homework	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How much do you agree with these statements about your physics homework?

Fill **one** circle for each line.

- | | Agree
a lot | Agree
a little | Disagree
a little | Disagree
a lot |
|---|-----------------------|-----------------------|-----------------------|-----------------------|
| a) My teacher gives us interesting physics homework | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| b) Physics homework helps me understand the material better | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| c) I try my best on my physics homework | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Thank You!

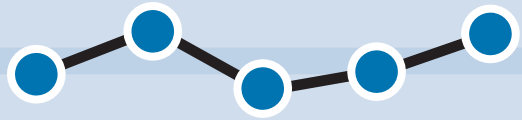
Thank you for filling out the questionnaire!



BOSTON
COLLEGE

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<Grade 9>



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