



TIMSS

2023

Identification Label

TRENDS IN INTERNATIONAL MATHEMATICS AND SCIENCE STUDY

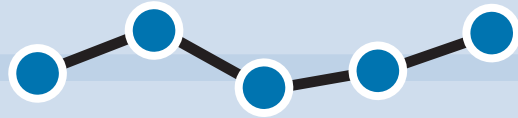
Student Questionnaire

Separate Science Subjects

<Grade 8>

<TIMSS National Research Center Name>

<Address>



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.

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

b) Year

January --

2006 --

February --

2007 --

March --

2008 --

April --

2009 --

May --

2010 --

June --

2011 --

July --

2012 --

August --

2013 --

September --

2014 --

October --

Other --

November --

December --

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"/> |
| g) <country-specific indicator of
wealth> | <input type="radio"/> | <input type="radio"/> |
| h) <country-specific indicator of
wealth> | <input type="radio"/> | <input type="radio"/> |
| i) <country-specific indicator of
wealth> | <input type="radio"/> | <input type="radio"/> |
| j) <country-specific indicator of
wealth> | <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.

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

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

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 --

No --

I don’t know --

Not applicable --

9

A. Were you born in <country>?

Fill one circle only.

Yes --

(If Yes, go to #10)

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 --

Younger than 5 years old --

10

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 --

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	<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"/>

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	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b) Access assignments posted online by my teacher	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) Collaborate with classmates on assignments or projects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) Ask my teacher questions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) Find information, articles, or tutorials about mathematics or science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) Access learning games or activities related to mathematics or science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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"/>

14

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"/>

15

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"/>

16

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"/>

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"/>

18

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 --

19

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 wish I did not have to study mathematics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) Mathematics is boring	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) I learn many interesting things in mathematics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) I like mathematics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) I like any schoolwork that involves numbers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) I like to solve mathematics problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h) I look forward to mathematics class	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i) 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-----	↓ ○	○	○	○
b) My teacher is easy to understand --	○	○	○	○
c) My teacher has clear answers to my questions -----	○	○	○	○
d) My teacher is good at explaining mathematics -----	○	○	○	○
e) My teacher does a variety of things to help us learn -----	○	○	○	○
f) My teacher explains a topic again when we don't understand ---	○	○	○	○
g) My teacher gives me helpful feedback on my work -----	○	○	○	○
h) My teacher asks me to show what I have learned -----	○	○	○	○
i) My teacher asks me to explain my answers -----	○	○	○	○
j) My teacher asks us to apply what we have learned in new situations -----	○	○	○	○

21

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 --- | ○ | ○ | ○ | ○ |
| b) Mathematics is harder for me
than for many of my classmates ---- | ○ | ○ | ○ | ○ |
| c) Mathematics is not one of
my strengths | ○ | ○ | ○ | ○ |
| d) Mathematics is easy for me----- | ○ | ○ | ○ | ○ |
| e) I am good at working out difficult
mathematics problems | ○ | ○ | ○ | ○ |
| f) I am good at explaining
mathematics to others | ○ | ○ | ○ | ○ |
| g) Mathematics is harder for me
than any other subject | ○ | ○ | ○ | ○ |
| h) Mathematics makes me confused--- | ○ | ○ | ○ | ○ |

23

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

24

Are you studying biology in school this year?

Fill one circle only.

Yes --

No -- 

(If No, go to #30)

25

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 --

26

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 wish I did not have to study biology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) Biology is boring	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) I learn many interesting things in biology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) I like biology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) I look forward to learning biology in school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) Biology teaches me how things in the world work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h) I like to conduct biology experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i) 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-----	↓ ○	○	○	○
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 explains a topic again when we don't understand ---	○	○	○	○
g) My teacher gives me helpful feedback on my work -----	○	○	○	○
h) My teacher asks me to show what I have learned -----	○	○	○	○
i) My teacher asks me to explain my answers -----	○	○	○	○
j) My teacher asks us to apply what we have learned in new situations -----	○	○	○	○

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"/>

29

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

30

Are you studying earth science in school this year?

*Fill **one** circle only.*

Yes --

No -- 

(If No, go to #36)

31

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 wish I did not have to study
earth science | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| c) Earth science is boring | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| d) I learn many interesting
things in earth science | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| e) I like earth science | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| f) I look forward to learning
earth science in school | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| g) Earth science teaches me how
things in the world work | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| h) I like to conduct earth science
experiments | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| i) Earth science is one of my
favorite subjects | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

33

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"/>

34

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"/>

35

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

36

Are you studying chemistry in school this year?

Fill one circle only.

Yes --

No -- 

(If No, go to #42)

37

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 wish I did not have to study chemistry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) Chemistry is boring	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) I learn many interesting things in chemistry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) I like chemistry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) I look forward to learning chemistry in school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) Chemistry teaches me how things in the world work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h) I like to conduct chemistry experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i) Chemistry is one of my favorite subjects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

39

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"/>

41

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

42

Are you studying physics in school this year?

Fill one circle only.

Yes --

No -- 

(If No, go to #48)

43

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 --

44

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 wish I did not have to study physics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c) Physics is boring	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d) I learn many interesting things in physics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
e) I like physics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
f) I look forward to learning physics in school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
g) Physics teaches me how things in the world work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h) I like to conduct physics experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i) Physics is one of my favorite subjects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

45

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"/>

46

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	↓ ○	○	○	○
b) Physics is harder for me than for many of my classmates ----	○	○	○	○
c) Physics is not one of my strengths	○	○	○	○
d) Physics is easy for me	○	○	○	○
e) I am good at working out difficult physics problems	○	○	○	○
f) I am good at explaining physics to others	○	○	○	○
g) Physics is harder for me than any other subject	○	○	○	○
h) Physics makes me confused	○	○	○	○

Learning Science

48

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

49

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"/>

Thank You!

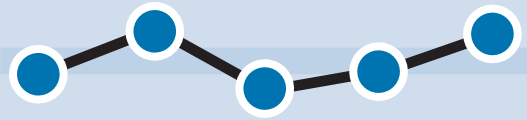
Thank you for filling out the questionnaire!



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