

STUDENT QUESTIONNAIRE FOR PISA 2015

PAPER-BASED VERSION

FIELD TRIAL VERSION

CY6_QST_FT_StQ_PBA_NoNotes

Core 6
March 2013

In this questionnaire you will find questions about the following topics:

- You, your family, and your home
- How you think about your life and your health
- Your science learning
- Your view on science

Please read each question carefully and answer as accurately as you can.

In this questionnaire, there are no right or wrong answers. Your answers should be the ones that are right for yourself.

You may ask for help if you do not understand something or are not sure how to answer a question.

Some questions relate to school science. Please think of all the different subjects and courses in your school that teach content related to broad science. Your school might teach school science in different subjects such as physics, chemistry, biology, Earth and geology, space and astronomy, applied sciences and technology (e.g. technology education), or your school teaches a general or integrated science course.

Your answers will be combined with others to make totals and averages in which no individual can be identified. All your answers will be kept confidential.

1. YOU, YOUR FAMILY, AND YOUR HOME

1 What form are you in?

form

2 Which one of the following programmes are you in?

(Please select one response.)

General

Mixed

3 On what date were you born?

(Please write in the day, month and year you were born.)

Day _____

Month _____

Year _____

4 **Are you female or male?**

(Please select one response.)

Female

Male

5 What is the highest level of schooling completed by your mother?

If you are not sure which box to choose, please ask the test administrator for help.

(Please select one response.)

Form 5 (CSEC/GCE)

Technical Vocational programme (NEC, pre-technical or craft courses)

Form 3

Standard 5

She did not complete Standard 5

6 Does your mother have any of the following qualifications?

If you are not sure how to answer this question, please ask the test administrator for help.

(Please select one response in each row.)

	<i>Yes</i>	<i>No</i>
Ph.D., Ed.D. (Doctorate)	<input type="checkbox"/>	<input type="checkbox"/>
B.Sc., B.Ed., B.A., M.Ed., M.Phil., (Bachelor or Master's degree)	<input type="checkbox"/>	<input type="checkbox"/>
Associate degree, technician programme, Diploma (e.g. ECIAF, COSTATT, Teachers College, John D.)	<input type="checkbox"/>	<input type="checkbox"/>
Advanced level subjects (CAPE/GCE)	<input type="checkbox"/>	<input type="checkbox"/>

7 The following two questions concern your mother's job:

(If she is not working now, please tell us her last main job.)

What is your mother's main job?
(e.g. school teacher, kitchen-hand, sales manager)

Please write in the job title. _____

What does your mother do in her main job?
(e.g. teaches high school students, helps the cook prepare meals in a restaurant, manages a sales team)

Please use a sentence to describe the kind of work she does or did in that job.

8 **What is the highest level of schooling completed by your father?**

If you are not sure which box to choose, please ask the test administrator for help.

(Please select one response.)

Form 5 (CSEC/GCE)

Technical Vocational programme (NEC, pre-technical or craft courses)

Form 3

Standard 5

He did not complete Standard 5

9 Does your father have any of the following qualifications?

If you are not sure how to answer this question, please ask the test administrator for help.

(Please select one response in each row.)

	<i>Yes</i>	<i>No</i>
Ph.D., Ed. <u>D.</u> (Doctorate)	<input type="checkbox"/>	<input type="checkbox"/>
B.-Sc., B.Ed., B.A., M.Ed., M.Phil., (Bachelor or Master's degree)	<input type="checkbox"/>	<input type="checkbox"/>
Associate degree, technician programme, Diploma (e.g. ECIAF, COSTATT, Teachers College, John D.)	<input type="checkbox"/>	<input type="checkbox"/>
Advanced level subjects (CAPE/GCE)	<input type="checkbox"/>	<input type="checkbox"/>

10 The following two questions concern your father's job:

(If he is not working now, please tell us his last main job.)

What is your father's main job?
(e.g. school teacher, kitchen-hand, sales manager)

Please write in the job title. _____

What does your father do in his main job?
(e.g. teaches high school students, helps the cook prepare meals in a restaurant, manages a sales team)

Please use a sentence to describe the kind of work he does or did in that job.

11 Which of the following are in your home?

(Please select one response in each row.)

	<i>Yes</i>	<i>No</i>
A desk to study at	<input type="checkbox"/>	<input type="checkbox"/>
A room of your own	<input type="checkbox"/>	<input type="checkbox"/>
A quiet place to study	<input type="checkbox"/>	<input type="checkbox"/>
A computer you can use for school work	<input type="checkbox"/>	<input type="checkbox"/>
Educational software	<input type="checkbox"/>	<input type="checkbox"/>
A link to the Internet	<input type="checkbox"/>	<input type="checkbox"/>
Classic literature (e.g. Shakespeare)	<input type="checkbox"/>	<input type="checkbox"/>
Books of poetry	<input type="checkbox"/>	<input type="checkbox"/>
Works of art (e.g. paintings)	<input type="checkbox"/>	<input type="checkbox"/>
Books to help with your school work	<input type="checkbox"/>	<input type="checkbox"/>
Technical reference books (e.g. computer software manuals, equipment repair and maintenance guides)	<input type="checkbox"/>	<input type="checkbox"/>
A dictionary	<input type="checkbox"/>	<input type="checkbox"/>
A DVD player	<input type="checkbox"/>	<input type="checkbox"/>
Flat screen TV/Plasma TV/LCD TV	<input type="checkbox"/>	<input type="checkbox"/>
Cable TV/Pay TV/Satellite TV	<input type="checkbox"/>	<input type="checkbox"/>
Books on art, music, or design	<input type="checkbox"/>	<input type="checkbox"/>
Dishwasher	<input type="checkbox"/>	<input type="checkbox"/>
Refrigerator with ice maker	<input type="checkbox"/>	<input type="checkbox"/>
Camcorder	<input type="checkbox"/>	<input type="checkbox"/>

12 How many of these are there at your home?

(Please select one response in each row.)

	<i>None</i>	<i>One</i>	<i>Two</i>	<i>Three or more</i>
Televisions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cars	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rooms with a bath or shower	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cell phones without Internet access	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cell phones with Internet access (e.g. smartphones)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Computers (desktop computer, portable laptop, or notebook)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tablet computers (e.g. iPad [®] , BlackBerry [®] PlayBook [™])	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E-book readers (e.g. Kindle [™])	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Musical instruments (e.g. guitar, piano)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

13 How many books are there in your home?

There are usually about 40 books per metre of shelving. Do not include magazines, newspapers, or your schoolbooks.

(Please select one response.)

0-10 books

11-25 books

26-100 books

101-200 books

201-500 books

More than 500 books

14 In what country were you and your parents born?

(Please select one response in each column.)

	<i>You</i>	<i>Mother</i>	<i>Father</i>
Trinidad and Tobago	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Caribbean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other country	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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15 What language do you speak at home most of the time?

(Please select one response.)

English

Other language

16 Did you attend Kindergarten?

(Please select one response.)

No

Yes, for one year or less

Yes, for more than one year

17 How old were you when you started primary school?

(Please write in the appropriate number.)

Years: _____

18 Have you ever repeated a form/class?

(Please select one response in each row.)

	<i>No, never</i>	<i>Yes, once</i>	<i>Yes, twice or more</i>
At primary school	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
At Form 1, Form 2 or Form 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
At Form 4 or Form 5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. HOW YOU THINK ABOUT YOUR LIFE

19 **Thinking about your life: how much do you disagree or agree with each of the following statements?**

(Please select one response in each row.)

	<i>Strongly disagree</i>	<i>Disagree</i>	<i>Agree</i>	<i>Strongly agree</i>
My life is going well.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
My life is just right.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I would like to change many things in my life.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I wish I had a different kind of life.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I have a good life.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I have what I want in life.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
My life is better than most kids'.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

20 **Thinking about your school: to what extent do you agree with the following statements?**

(Please select one response in each row.)

	<i>Strongly agree</i>	<i>Agree</i>	<i>Disagree</i>	<i>Strongly disagree</i>
I feel like an outsider (or left out of things) at school.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I make friends easily at school.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I feel like I belong at school.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I feel awkward and out of place in my school.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other students seem to like me.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I feel lonely at school.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I feel happy at school.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Things are ideal in my school.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am satisfied with my school.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

21 How tall are you?

(Please write in the appropriate number.)

cm

22 How much do you weigh?

(Please write in the appropriate number.)

kg

3. YOUR SCIENCE LEARNING

23 Thinking about the teachers at your school: to what extent do you agree with the following statements?

(Please select one response in each row.)

	<i>Strongly agree</i>	<i>Agree</i>	<i>Disagree</i>	<i>Strongly disagree</i>
I get along well with most of my teachers.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Most of my teachers are interested in my well-being.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Most of my teachers really listen to what I have to say.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If I need extra help, I will receive it from my teachers.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Most of my teachers treat me fairly.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
My teachers are interested in my school activities.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
My teachers are supportive of my educational efforts and achievements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
My teachers support me when I am facing difficulties in school.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
My teachers encourage me to be confident.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
My teachers encourage me to learn new skills.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
My teachers give me feedback on my performance in school.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
My teachers suggest ways that I can move forward when I'm stuck.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
My teachers tell me what to do to complete a task and explain why I should do so.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
My teachers give me detailed information and clarification about the	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

learning task and strategies.

My teachers demonstrate particular skills that are important for solving a task.

My teachers ask me questions to initiate a deeper understanding of the content.

Students have a voice in decision making at my school.

Adults at this school listen to students' suggestions.

24 **How many class periods per week are you typically
required to attend for the following subjects?**

*(Please write in the number of class periods per week for each
subject. Write "0" (zero) if you have none.)*

Number of class periods per week in English Language _____

Number of class periods per week in mathematics _____

Number of class periods per week in science _____

25 **Which of the following school science courses did you attend this school year or last school year?**

(Please select all that apply in each row.)

	<i>This year</i>	<i>Last year</i>
Physics	<input type="checkbox"/>	<input type="checkbox"/>
Chemistry	<input type="checkbox"/>	<input type="checkbox"/>
Biology	<input type="checkbox"/>	<input type="checkbox"/>
Earth and space	<input type="checkbox"/>	<input type="checkbox"/>
Applied sciences and technology (e.g. Technology Education)	<input type="checkbox"/>	<input type="checkbox"/>
General or integrated science course	<input type="checkbox"/>	<input type="checkbox"/>

26 How often do these things happen in your school science lessons?

(Please select one response in each row.)

	<i>Every lesson</i>	<i>Most lessons</i>	<i>Some lessons</i>	<i>Never or hardly ever</i>
Students don't listen to what the teacher says.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
There is noise and disorder.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The teacher has to wait a long time for students to quiet down.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Students cannot work well.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Students don't start working for a long time after the lesson begins.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- 27** *When answering the following questions, please keep one of your current school science courses in mind all the time. You are free to choose which course this should be.*

What is the name of this school science course?

(Please write in the name of the course.)

28 When learning science topics at school, how often do the following activities occur?

(Please select one response in each row.)

	<i>In all lessons</i>	<i>In most lessons</i>	<i>In some lessons</i>	<i>Never or hardly ever</i>
Students are given opportunities to explain their ideas.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Students spend time in the laboratory doing practical experiments.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Students are required to argue about science questions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The conclusions of experiments integrate students' argumentations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Students are asked to draw conclusions from an experiment they have conducted.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The teacher explains how a school science idea can be applied to a number of different phenomena (e.g. the movement of objects, substances with similar properties).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Students are allowed to design their own experiments.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
There is a class debate about investigations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The teacher clearly explains the relevance of broad science concepts to our lives.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Students are asked to do an investigation to test ideas.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Students have the opportunity to repeat experiments and compare observations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Students are encouraged to question and critique scientific	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

arguments made by other students.

Students are required to engage in discussions among themselves.

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

(Please select one response in each row.)

	<i>Every lesson</i>	<i>Most lessons</i>	<i>Some lessons</i>	<i>Never or hardly ever</i>
The teacher shows an interest in every student's learning.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The teacher gives extra help when students need it.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The teacher helps students with their learning.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The teacher continues teaching until the students understand.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The teacher gives students an opportunity to express opinions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

30 How often do these things happen in your lessons for this school science course?

(Remember to answer this question in reference to the school science course you indicated earlier.)

(Please select one response in each row.)

	<i>Never or almost never</i>	<i>Some lessons</i>	<i>Many lessons</i>	<i>Every lesson or almost every lesson</i>
The teacher explains scientific ideas.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A small group discussion between students takes place.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A whole class discussion takes place with the teacher.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Current scientific issues are discussed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Students make calculations using scientific formulas.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The teacher uses an interactive whiteboard.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Students do their own scientific study and related research.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The teacher discusses our questions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Students carry out practical work.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Students write up laboratory reports.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The teacher demonstrates an idea.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The teacher discusses questions of practical relevance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Students read materials from a textbook.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Students take notes from the board.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Students discuss materials from a textbook.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Students watch videos.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Students use the Internet.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The class corrects homework or a test.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Students fill out worksheets.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Students present something to the rest of the class.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

31 How often do these things happen in your lessons for this school science course?

(Remember to answer this question in reference to the school science course you indicated earlier.)

(Please select one response in each row.)

	<i>Never or almost never</i>	<i>Some lessons</i>	<i>Many lessons</i>	<i>Every lesson or almost every lesson</i>
The teacher tells me how I am performing in this course.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The teacher gives me feedback on my strengths in this school science subject.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The teacher tells me in which areas I can still improve.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The teacher tells me how I can improve my performance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The teacher advises me on how to reach my learning goals.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

32 This school year or the last school year, have you taken additional instruction in the following subjects?

*(Please think of all instruction and study support in-school and out-of-school that you have taken in addition to your required school schedule (e.g. remediation, advanced courses, tutoring).
(Please select all that apply.)*

School science

Mathematics

English Language

Other

33 **Think about your last two sessions in your additional science instruction. How often do these things happen in this additional, non-compulsory science instruction?**

(Please select one response in each row.)

	<i>Never or almost never</i>	<i>Some sessions</i>	<i>Many sessions</i>	<i>Every session or almost every session</i>
I concentrate on what's happening in the session (listening to the teacher, reading a textbook, solving problems, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am distracted, working for another course or session (homework, studying for an exam, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am distracted, doing things not related to the session (texting, talking to a peer, daydreaming, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

34 **Think about your last two sessions in your additional science instruction. About what proportion of time were you not concentrating on things related to this additional science instruction?**

(Please write in a percentage of time. Write “0” (zero) if there is none.)

_____ %

35 **During the last ten sessions of additional science instruction, how many did you skip?**

(Please write in one response. Write “0” (zero) if you skipped none.)

Number of sessions:

—

3. YOUR VIEW ON SCIENCE

36 **How much do you disagree or agree with the statements about yourself below?**

(Please select one response in each row.)

	<i>Strongly disagree</i>	<i>Disagree</i>	<i>Agree</i>	<i>Strongly agree</i>
I generally have fun when I am learning broad science topics.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I like reading about broad science.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am happy working on broad science topics.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I enjoy acquiring new knowledge in broad science.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am interested in learning about broad science.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

37 How informed are you about the following environmental issues?

(Please select one response in each row.)

	<i>I have never heard of this</i>	<i>I have heard about this but I would not be able to explain what it is really about</i>	<i>I know something about this and could explain the general issue</i>	<i>I am familiar with this and I would be able to explain this well</i>
The increase of greenhouse gases in the atmosphere	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The use of genetically modified organisms (GMO)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acid rain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nuclear waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The consequences of clearing forests for other land use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Air pollution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Energy shortages	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extinction of plants and animals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water shortage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

38 How much do you agree with the statements below?

(Please select one response in each row.)

	<i>Strongly agree</i>	<i>Agree</i>	<i>Disagree</i>	<i>Strongly disagree</i>
Making an effort in my school science subject(s) is worth it because this will help me in the work I want to do later on.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
What I learn in my school science subject(s) is important for me because I need this for what I want to do later on.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Studying my school science subject(s) is worthwhile for me because what I learn will improve my career prospects.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Many things I learn in my school science subject(s) will help me to get a job.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

39 **What kind of job do you expect to have when you are about 30 years old?**

(Please write in the job title.) _____

40 **Thinking about your school: to what extent do you agree or disagree with the following statements?**

(Please select one response in each row.)

	<i>Strongly agree</i>	<i>Agree</i>	<i>Disagree</i>	<i>Strongly disagree</i>
If I put in enough effort, I can succeed in school.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It is completely my choice whether or not I do well at school.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Family demands or other problems prevent me from putting a lot of time into my school work.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If I had different teachers, I would try harder at school.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I perform poorly at school whether or not I study for my exams.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

41 How easy do you think it would be for you to perform the following tasks on your own?

(Please select one response in each row.)

	<i>I could do this easily</i>	<i>I could do this with a bit of effort</i>	<i>I would struggle to do this on my own</i>	<i>I couldn't do this</i>
Recognise the science question that underlies a newspaper report on a health issue.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Explain why earthquakes occur more frequently in some areas than in others.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Describe the role of antibiotics in the treatment of disease.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Identify the science question associated with the disposal of garbage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Predict how changes to an environment will affect the survival of certain species.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interpret the scientific information provided on the labelling of food items.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Discuss how new evidence can lead you to change your understanding about the possibility of life on Mars.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Identify the better of two explanations for the formation of acid rain.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

(Please select one response in each row.)

	<i>Strongly disagree</i>	<i>Disagree</i>	<i>Agree</i>	<i>Strongly agree</i>
A good way to know if something is true is to do an experiment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Some ideas in broad science today are different than what scientists used to think.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ideas in broad science sometimes change.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Good answers are based on evidence from many different experiments.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
There are some questions that scientists cannot answer.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It is good to try experiments more than once to make sure of your findings.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
New discoveries can change what scientists think is true.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sometimes broad science scientists change their minds about what is true in science.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It is good to have an idea before I start an experiment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
One important part of broad science is doing experiments to come up with ideas about how things work.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The ideas in books about broad science sometimes change.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
In broad science, there can be more than one way for scientists to test their ideas.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

43 How much do you agree with the statements below?

(Please select one response in each row.)

	<i>Strongly agree</i>	<i>Agree</i>	<i>Disagree</i>	<i>Strongly disagree</i>
Advances in broad science and technology usually improve people's living conditions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Broad science is important for helping us to understand the natural world.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Some concepts in broad science help me see how I relate to other people.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Advances in broad science and technology usually help improve the economy.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I will use broad science in many ways when I am an adult.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Broad science is valuable to society.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Broad science is very relevant to me.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I find that broad science helps me to understand the things around me.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Advances in broad science and technology usually bring social benefits.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
When I leave school there will be many opportunities for me to use broad science.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

44 How much do you disagree or agree with the statements about the use of new technologies (e.g. tablet computer, smartphone, Blu-ray Player) below?

(Please select one response in each row.)

	<i>Strongly disagree</i>	<i>Disagree</i>	<i>Agree</i>	<i>Strongly agree</i>
I am curious about new technologies.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Using new technologies stresses me.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I find it difficult to use new technologies – I do not know how to make them work.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It is up to me whether I can use new technologies or not – it has nothing to do with luck.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I am always interested in using the latest technological devices.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
When I am using new technologies, I am afraid of failing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
When I have problems with technologies, it is up to me whether I solve them or not.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If I had the opportunity, I would use technological devices more frequently than now.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I worry that I will break new technological devices rather than use them in the right way.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It is up to me whether I succeed in using new technology or not.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The outcome of my use of new technologies depends on me alone.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I quickly take pleasure in new technologies.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

***Thank you very much for your cooperation in
completing this questionnaire!***