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

- You, your family, and your home
- Interest in science and the environment
- School science learning in school
- Your plans for further education

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 you.

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. Broad science is science in general and is not limited to subjects or courses that are taught at school. 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. design and technology), or your school teaches a general or integrated science course (e.g. Science (Physics/Chemistry), Science Syllabus T).

Please note that the forward button used to proceed to the next question is located at the bottom right hand corner of your screen. In some instances you may need to scroll down to the bottom of your screen to access this forward button.

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.

Section A: You, Your Family, and Your Home	

# What level of study (e.g. Sec 4, Grade 10) are you in? (Please select from the drop-down menu to answer the question.) ST001Q01TA01 level of study Select... • level of study ( ST001Q01TA01 ) Select... Secondary 1 or Grade 7 Secondary 2 or Grade 8 Secondary 3 or Grade 9 Secondary 4 or Grade 10 Secondary 5 JC1 or Grade 11 JC2 or Grade 12

Which one of the following programmes are you in?	
ease select one response.)	
Secondary education	ST002Q01TA01
ost-secondary education	ST002Q01TA02

#### On what date were you born?

(Please select the day, month, and year from the drop-down menus to answer the question.)

Day

ST003Q01TA01

Select...

• Day (ST003Q01TA01) Select...

25

29

#### ST003Q02TA01 Month Select... Month (ST003Q02TA01) Select... January February March April May June July August September October November December ST003Q03TA01 Year Select... • Year ( ST003Q03TA01 ) Select... 1998 1999 2000 2001

# **Consistency check rule**

Rule: IF ( $^ST003Q01TA01 = null OR ^ST003Q02TA01 = null OR ^ST003Q03TA01 = null)$ 

Message: Please enter your complete birth date.

Are you female or male?	
Please select one response.)	
remale	ST004Q01TA01
lale	ST004Q01TA02

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.)	
Upper secondary education	ST005Q01TA01
Lower secondary education	ST005Q01TA03
Primary education	ST005Q01TA04
She did not complete primary education	ST005Q01TA05

Does	your	mother	have	any	of the	following	qualifications?
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If you are not sure how to answer this question, please ask the test administrator for help.

	Yes	No
PhD	ST006Q01TA01	ST006Q01TA02
University Bachelor's degree (with/without honours), Master's degree	ST006Q02TA01	ST006Q02TA02
Polytechnic diploma	ST006Q03TA01	ST006Q03TA02
Post-secondary certification (e.g. GCE A-level or ITE certification)	ST006Q04TA01	ST006Q04TA02

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.)	
Upper secondary education	ST007Q01TA01
Lower secondary education	ST007Q01TA03
Primary education	ST007Q01TA04
He did not complete primary education	ST007Q01TA05

#### 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.

	Yes	No
PhD	ST008Q01TA01	ST008Q01TA02
University Bachelor's degree (with/without honours), Master's degree	ST008Q02TA01	ST008Q02TA02
Polytechnic diploma	ST008Q03TA01	ST008Q03TA02
Post-secondary certification (e.g. GCE A-level or ITE certification)	ST008Q04TA01	ST008Q04TA02

What is your mother currently doing?	
Please select one response.)	
Norking full-time for pay	ST009Q01TA01
Vorking part-time for pay	ST009Q01TA02
Not working, but looking for a job.	ST009Q01TA03
Other (e.g. home duties, retired)	ST009Q01TA04

What is your father currently doing?	
Please select one response.)	
Norking full-time for pay	ST010Q01TA01
Vorking part-time for pay	ST010Q01TA02
Not working, but looking for a job.	ST010Q01TA03
Other (e.g. home duties, retired)	ST010Q01TA04

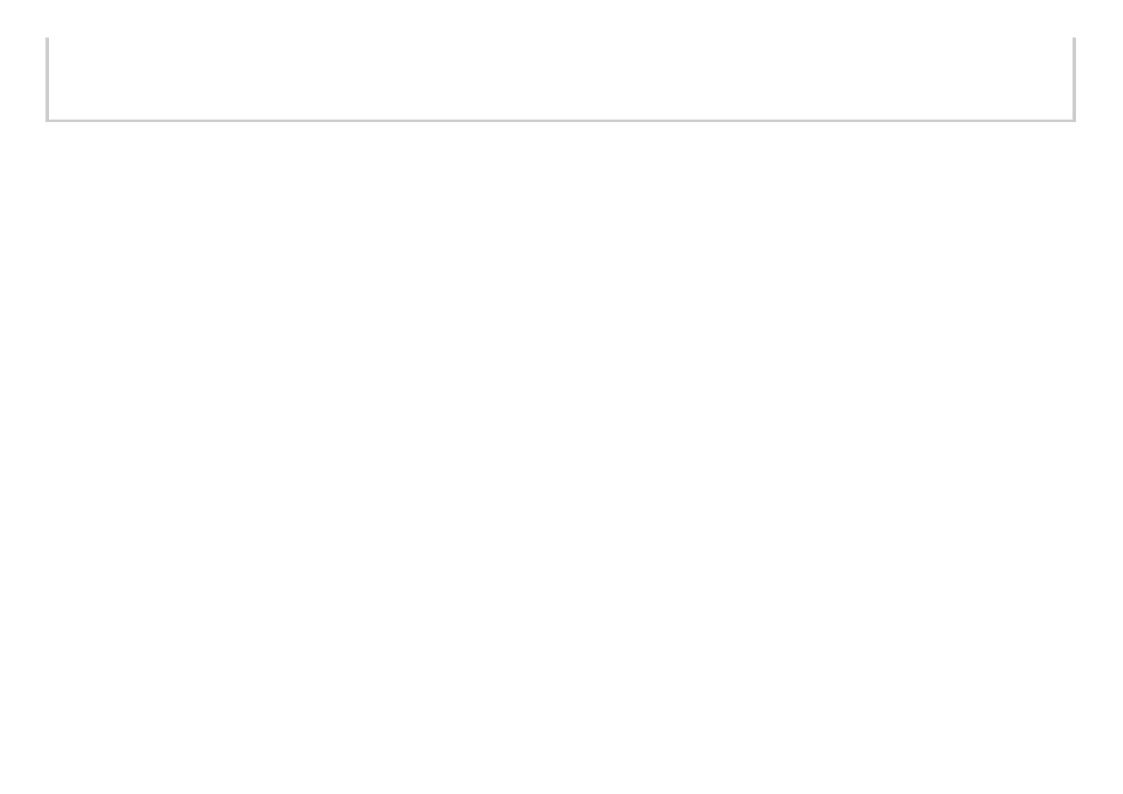
## Which of the following are in your home?

	Yes	No
A desk to study at	ST011Q01TA01	ST011Q01TA02
A room of your own	ST011Q02TA01	ST011Q02TA02
A quiet place to study	ST011Q03TA01	ST011Q03TA02
A computer you can use for school work	ST011Q04TA01	ST011Q04TA02
Educational software	ST011Q05TA01	ST011Q05TA02
A link to the Internet	ST011Q06TA01	ST011Q06TA02
Classic literature (e.g. Shakespeare)	ST011Q07TA01	ST011Q07TA02
Books of poetry	ST011Q08TA01	ST011Q08TA02
Works of art (e.g. paintings)	ST011Q09TA01	ST011Q09TA02
Books to help with your school work	ST011Q10TA01	ST011Q10TA02

Technical reference books	ST011Q11TA01	ST011Q11TA02
A dictionary	ST011Q12TA01 O	ST011Q12TA02 O
A DVD player	ST011Q13TA01	ST011Q13TA02
Flat screen TV/Plasma TV/LCD TV	ST011Q14NA01 O	ST011Q14NA02 O
Cable Television	ST011Q15NA01 O	ST011Q15NA02
Books on art, music, or design	ST011Q16NA01	ST011Q16NA02
Air-conditioner	ST011Q17TA01	ST011Q17TA02
Domestic helper (e.g. full/part-time maid)	ST011Q18TA01	ST011Q18TA02

## **How many** of these are there at your home?

	None	One	Two	Three or more
Televisions	ST012Q01TA01	ST012Q01TA02	ST012Q01TA03	ST012Q01TA04
Cars	ST012Q02TA01	ST012Q02TA02	ST012Q02TA03	ST012Q02TA04
Rooms with a bath or shower	ST012Q03TA01	ST012Q03TA02	ST012Q03TA03	ST012Q03TA04
Hand phones without Internet access	ST012Q04NA01	ST012Q04NA02	ST012Q04NA03	ST012Q04NA04
Hand phones with Internet access (e.g. smartphones)	ST012Q05NA01	ST012Q05NA02	ST012Q05NA03	ST012Q05NA04
Computers (desktop computer, portable laptop, or notebook)	ST012Q06NA01	ST012Q06NA02	ST012Q06NA03	ST012Q06NA04
Tablet computers (e.g. iPad®, Samsung® Galaxy Tab™)	ST012Q07NA01	ST012Q07NA02	ST012Q07NA03	ST012Q07NA04
E-book readers (e.g. Kindle™, Kobo)	ST012Q08NA01	ST012Q08NA02	ST012Q08NA03	ST012Q08NA04
Musical instruments (e.g. guitar, piano)	ST012Q09NA01	ST012Q09NA02	ST012Q09NA03	ST012Q09NA04



How	many	books	are	there	in	your	home?
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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	ST013Q01TA01
11-25 books	ST013Q01TA02
26-100 books	ST013Q01TA03
101-200 books	ST013Q01TA04
201-500 books	ST013Q01TA05
More than 500 books	ST013Q01TA06

The following two questions concern your mother's job:	
f she is not working now, please tell us her last main job.)	
Vhat is your mother's main job? e.g. school teacher, kitchen-hand, sales manager) llease type in the job title.	ST014Q01TA01
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.	ST014Q02TA01

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 type in the job title.	ST015Q01TA01
What does your father do in his main job? (e.g. teaches high school students, helps the cook prepare meals n a restaurant, manages a sales team) Please use a sentence to describe the kind of work he does or did in that job.	ST015Q02TA01

### What kind of work do your father and mother do for their main jobs?

(Choose the job category that best describes what your father/your mother does. Each category has a few examples to help you decide the correct category. If your father or mother is not working now, think about the last job he/she had.)

	Your father	Your mother
Has never worked outside the home for pay	ST091AQ01N01	ST091BQ01N01
Small Business Owner [Includes owners of small business (fewer than 25 employees) such as retail shops, services, restaurants]	ST091AQ01N02	ST091BQ01N02
Clerk (Includes office clerks; secretaries; typists; data entry operators; customer service clerks)	ST091AQ01N03	ST091BQ01N03
Service or Sales Worker (Includes travel attendants; restaurant service workers; personal care workers; protective service workers; salespersons)	ST091AQ01N04	ST091BQ01N04
Skilled Agricultural or Fishery Worker (Includes farmers; forestry workers; fishery workers, hunters and trappers)	ST091AQ01N05	ST091BQ01N05
Craft or Trade Worker (Includes builders, carpenters, plumbers, electricians, etc.; metal workers; machine mechanics; handicraft workers)	ST091AQ01N06	ST091BQ01N06
Plant or Machine Operator (Includes plant and machine operators; assembly-line operators; motor-vehicle drivers)	ST091AQ01N07	ST091BQ01N07
General Labourers	STN91AON1NN8	ST091R001N08

(Includes domestic helpers and cleaners; building caretakers; messengers, porters and doorkeepers; farm, fishery, agricultural, and construction workers)	O	O
Corporate Manager or Senior Official [Includes corporate managers such as managers of large companies (25 or more employees) or managers of departments within large companies; legislators or senior government officials; senior officials of special-interest organizations; military officers]	ST091AQ01N09	ST091BQ01N09
Professional (Includes scientists; mathematicians; computer scientists; architects; engineers; life science and health professionals; teachers; legal professionals; social scientists; writers and artists; religious professionals)	ST091AQ01N10	ST091BQ01N10
Technician or Associate Professional (Includes science, engineering, and computer associates and technicians; life science and health technicians and assistants; teacher aides; finance and sales associate professionals; business service agents; administrative assistants)	ST091AQ01N11	ST091BQ01N11
Something else	ST091AQ01N12	ST091BQ01N12

ection B: Interest In Science and the Environment						

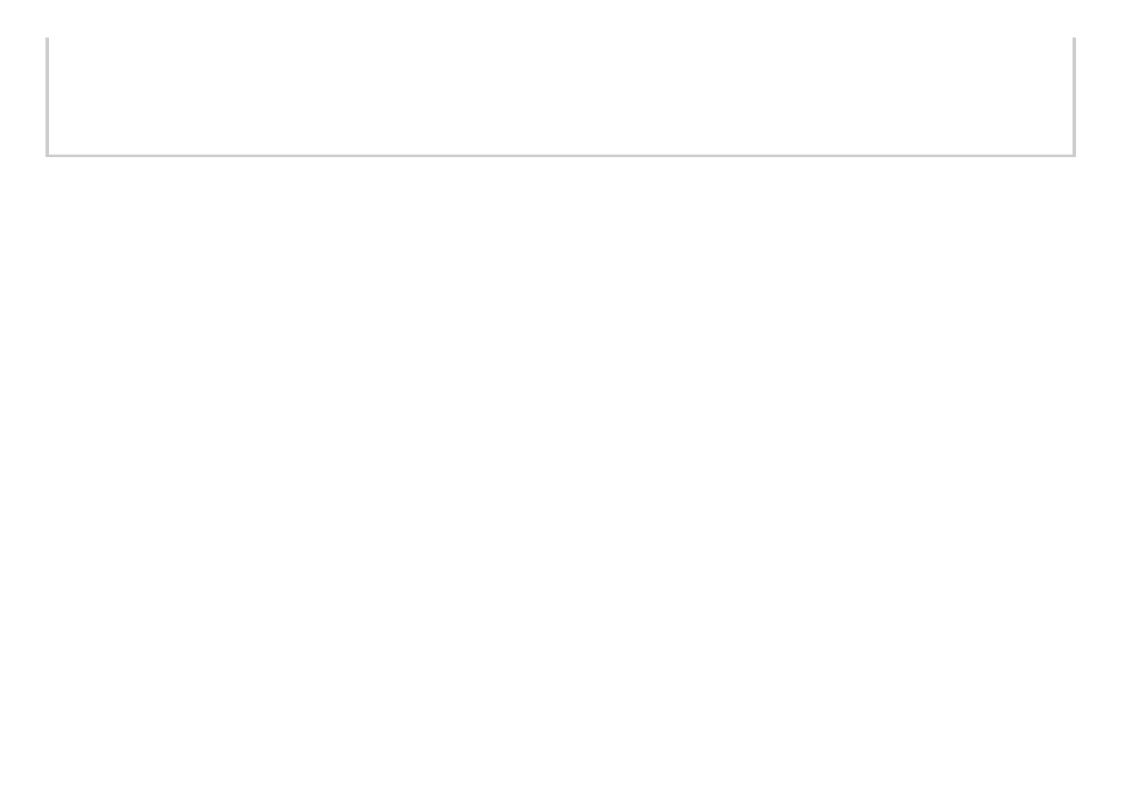
### How informed are you about the following environmental issues?

	I have never heard of this	I have heard about this but I would not be able to explain what it is really about	I know something about this and could explain the general issue	I am familiar with this and I would be able to explain this well
The increase of greenhouse gases in the atmosphere	ST092Q01TA01	ST092Q01TA02	ST092Q01TA03	ST092Q01TA04
The use of genetically modified organisms (GMO)	ST092Q02TA01	ST092Q02TA02	ST092Q02TA03	ST092Q02TA04
Acid rain	ST092Q03TA01	ST092Q03TA02	ST092Q03TA03	ST092Q03TA04
Nuclear waste	ST092Q04TA01	ST092Q04TA02	ST092Q04TA03	ST092Q04TA04
The consequences of clearing forests for other land use	ST092Q05TA01	ST092Q05TA02	ST092Q05TA03	ST092Q05TA04
Air pollution	ST092Q06NA01	ST092Q06NA02	ST092Q06NA03	ST092Q06NA04
Energy shortages	ST092Q07NA01	ST092Q07NA02	ST092Q07NA03	ST092Q07NA04
Extinction of plants and animals	ST092Q08NA01	ST092Q08NA02	ST092Q08NA03	ST092Q08NA04
18/	ST092Q09NA01	ST092Q09NA02	ST092Q09NA03	ST092Q09NA04

	Water snortages	0	0	0	0
L					

# Do you think problems associated with the environmental issues below will improve or get worse over the next 20 years?

	Improve	Stay about the same	Get worse
Air pollution	ST093Q01TA01	ST093Q01TA02	ST093Q01TA03
Energy shortages	ST093Q02TA01	ST093Q02TA02	ST093Q02TA03
Extinction of plants and animals	ST093Q03TA01	ST093Q03TA02	ST093Q03TA03
Clearing of forests for other land use	ST093Q04TA01	ST093Q04TA02	ST093Q04TA03
Water shortages	ST093Q05TA01	ST093Q05TA02	ST093Q05TA03
Nuclear waste	ST093Q06TA01	ST093Q06TA02	ST093Q06TA03
The increase of greenhouse gases in the atmosphere	ST093Q07NA01	ST093Q07NA02	ST093Q07NA03
The use of genetically modified organisms (GMO)	ST093Q08NA01	ST093Q08NA02	ST093Q08NA03
Acid rain	ST093Q09NA01	ST093Q09NA02	ST093Q09NA03



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

	Strongly disagree	Disagree	Agree	Strongly agree
I generally have fun when I am learning broad science topics.	ST094Q01NA01	ST094Q01NA02	ST094Q01NA03	ST094Q01NA04
l like reading about broad science.	ST094Q02NA01	ST094Q02NA02	ST094Q02NA03	ST094Q02NA04
I am happy working on broad science topics.	ST094Q03NA01	ST094Q03NA02	ST094Q03NA03	ST094Q03NA04
l enjoy acquiring new knowledge in broad science.	ST094Q04NA01	ST094Q04NA02	ST094Q04NA03	ST094Q04NA04
I am interested in learning about broad science.	ST094Q05NA01	ST094Q05NA02	ST094Q05NA03	ST094Q05NA04

#### To what extent are you interested in the following broad science topics?

	Not interested	Hardly interested	Interested	Highly interested	I don't know what this is
The concept of an organism (e.g. unicellular and multicellular)	ST095Q01NA01	ST095Q01NA02	ST095Q01NA03	ST095Q01NA04	ST095Q01NA05
Humans (e.g. health, nutrition)	ST095Q02NA01	ST095Q02NA02	ST095Q02NA03	ST095Q02NA04	ST095Q02NA05
Populations (e.g. species, evolution, biodiversity)	ST095Q03NA01	ST095Q03NA02	ST095Q03NA03	ST095Q03NA04	ST095Q03NA05
Biosphere (e.g. ecosystem services, sustainability)	ST095Q04NA01	ST095Q04NA02	ST095Q04NA03	ST095Q04NA04	ST095Q04NA05
Structure of matter (e.g. particle model, bonds)	ST095Q05NA01	ST095Q05NA02	ST095Q05NA03	ST095Q05NA04	ST095Q05NA05
Chemical changes of matter (e.g. chemical reactions, energy transfer)	ST095Q06NA01	ST095Q06NA02	ST095Q06NA03	ST095Q06NA04	ST095Q06NA05
Motion and forces (e.g. velocity, friction, magnetic and gravitational forces)	ST095Q07NA01	ST095Q07NA02	ST095Q07NA03	ST095Q07NA04	ST095Q07NA05
Energy and its transformation (e.g. conservation, chemical reactions)	ST095Q08NA01	ST095Q08NA02	ST095Q08NA03	ST095Q08NA04	ST095Q08NA05
Interactions between energy and matter (e.g. light and radio waves)	ST095Q09NA01	ST095Q09NA02	ST095Q09NA03	ST095Q09NA04	ST095Q09NA05

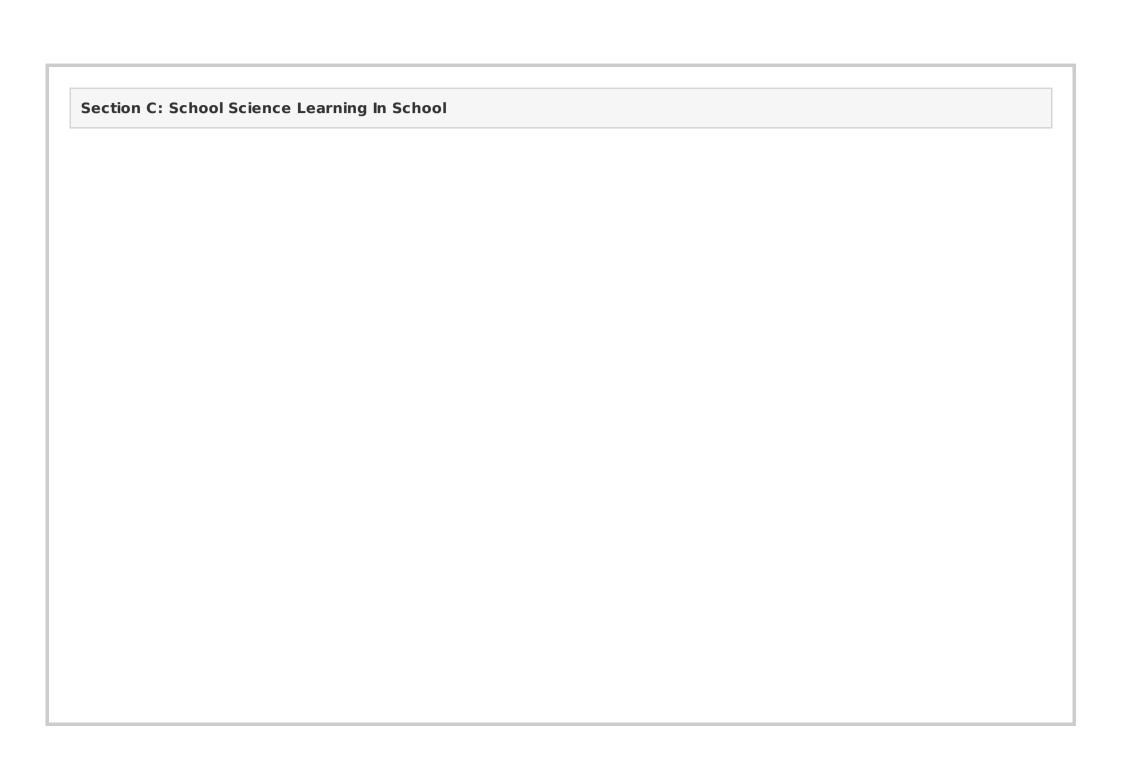
Change in Earth systems (e.g. plate tectonics, constructive and destructive forces)	ST095Q10NA01	ST095Q10NA02	ST095Q10NA03	ST095Q10NA04	ST095Q10NA05
Earth's history (e.g. fossils, origin and evolution)	ST095Q11NA01	ST095Q11NA02	ST095Q11NA03	ST095Q11NA04	ST095Q11NA05
Earth in space (e.g. gravity, solar systems, galaxies)	ST095Q12NA01	ST095Q12NA02	ST095Q12NA03	ST095Q12NA04	ST095Q12NA05
The Universe and its history	ST095Q13NA01	ST095Q13NA02	ST095Q13NA03	ST095Q13NA04	ST095Q13NA05
Explanations of how things work	ST095Q14NA01	ST095Q14NA02	ST095Q14NA03	ST095Q14NA04	ST095Q14NA05
How science can help us prevent disease	ST095Q15NA01	ST095Q15NA02	ST095Q15NA03	ST095Q15NA04	ST095Q15NA05
How science can help solve environmental problems	ST095Q16NA01	ST095Q16NA02	ST095Q16NA03	ST095Q16NA04	ST095Q16NA05

#### How interested are you in the following school subjects?

(Please answer only for those subjects that you had this year or last year. Otherwise, select the box 'I didn't have this subject'.)

	Not interested	Hardly interested	Interested	Highly interested	I didn't have this subject
English	ST096Q01NA01	ST096Q01NA02	ST096Q01NA03	ST096Q01NA04	ST096Q01NA05
Mathematics	ST096Q02NA01	ST096Q02NA02	ST096Q02NA03	ST096Q02NA04	ST096Q02NA05
Chemistry	ST096Q04NA01	ST096Q04NA02	ST096Q04NA03	ST096Q04NA04	ST096Q04NA05
Biology	ST096Q05NA01	ST096Q05NA02	ST096Q05NA03	ST096Q05NA04	ST096Q05NA05
Physics	ST096Q07NA01	ST096Q07NA02	ST096Q07NA03	ST096Q07NA04	ST096Q07NA05
Applied sciences and technology (e. g. Design and Technology)	ST096Q08NA01	ST096Q08NA02	ST096Q08NA03	ST096Q08NA04	ST096Q08NA05
General or integrated science (e.g. Science (Physics/Chemistry), Science Syllabus T)	ST096Q09NA01	ST096Q09NA02	ST096Q09NA03	ST096Q09NA04	ST096Q09NA05
Social Sciences (e.g. Economics, History, Social Studies)	ST096Q10NA01	ST096Q10NA02	ST096Q10NA03	ST096Q10NA04	ST096Q10NA05
Consider the first of the state of	ST096Q11NA01	ST096Q11NA02	ST096Q11NA03	ST096Q11NA04	ST096Q11NA05

Sports/physical education	0	0	0	0	0
Foreign language	ST096Q12NA01	ST096Q12NA02	ST096Q12NA03	ST096Q12NA04	ST096Q12NA05
Arts (e.g. Art, Drama, Music)	ST096Q13NA01	ST096Q13NA02	ST096Q13NA03	ST096Q13NA04	ST096Q13NA05



#### 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.) This year Last year ST063Q01NA01 ST063Q01NB02 Physics ST063Q02NA01 ST063Q02NB02 Chemistry ST063O03NA01 ST063O03NB02 Biology ST063Q05NA01 ST063Q05NB02 Applied sciences and technology (e. g. Design and Technology) ST063Q06NA01 ST063Q06NB02 General, integrated, or comprehensive science (e.g. Science (Physics/Chemistry), Science Syllabus T)

# **Branching rule** Rule: IF (^ST063Q01NA01 >0 OR ^ST063Q02NA01 >0 OR ^ST063Q03NA01 >0 OR ^ST063Q05NA01 >0 OR ^ST063Q06NA01 >0) THEN GOTO ^ST097 ELSE GOTO ^STInfo4

	Every lesson	Most lessons	Some lessons	Never or hardly ever
Students don't listen to what the teacher says.	ST097Q01TA01	ST097Q01TA02	ST097Q01TA03	ST097Q01TA04
There is noise and disorder.	ST097Q02TA01	ST097Q02TA02	ST097Q02TA03	ST097Q02TA04
The teacher has to wait a long time for students to quieten down.	ST097Q03TA01	ST097Q03TA02	ST097Q03TA03	ST097Q03TA04
Students cannot work well.	ST097Q04TA01	ST097Q04TA02	ST097Q04TA03	ST097Q04TA04
Students don't start working for a long time after the lesson begins.	ST097Q05TA01	ST097Q05TA02	ST097Q05TA03	ST097Q05TA04

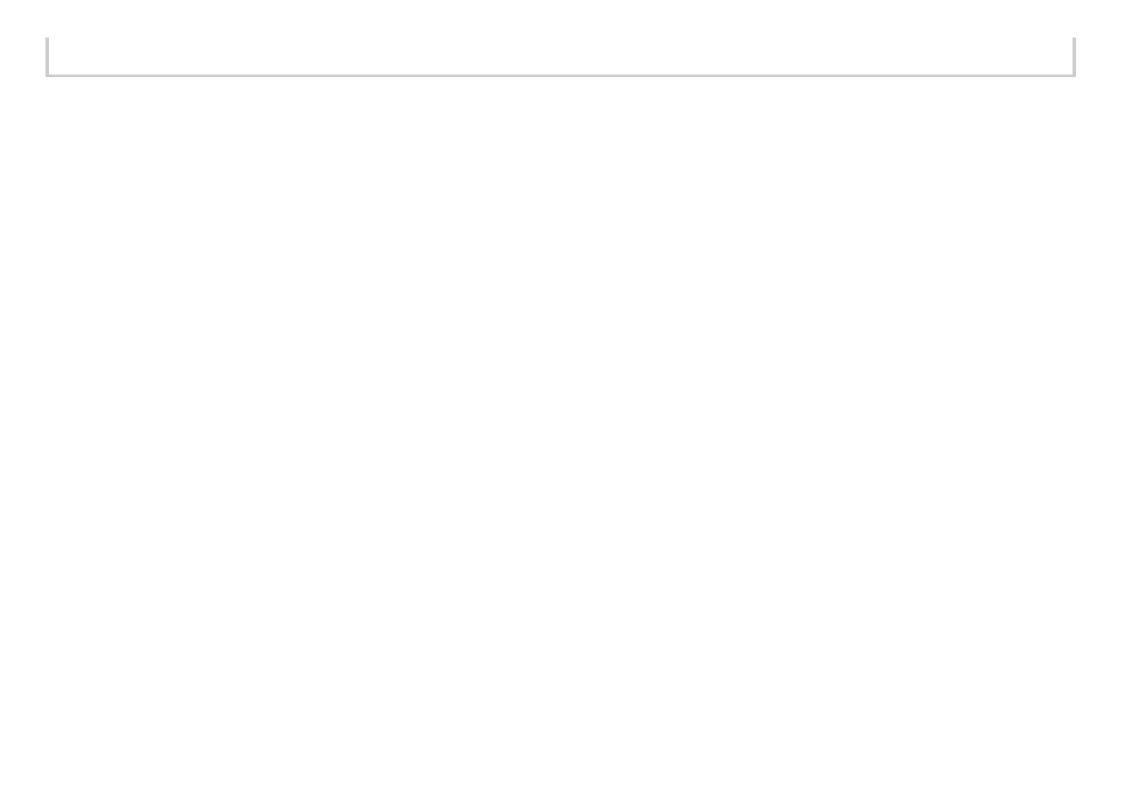
#### When learning school science topics at school, how often do the following activities occur?

	In all lessons	In most lessons	In some lessons	Never or hardly ever
Students are given opportunities to explain their ideas.	ST098Q01TA01	ST098Q01TA02	ST098Q01TA03	ST098Q01TA04
Students spend time in the laboratory doing practical experiments.	ST098Q02TA01	ST098Q02TA02	ST098Q02TA03	ST098Q02TA04
Students are required to argue about science questions.	ST098Q03NA01	ST098Q03NA02	ST098Q03NA03	ST098Q03NA04
The conclusions of experiments integrate students' argumentations.	ST098Q04NA01	ST098Q04NA02	ST098Q04NA03	ST098Q04NA04
Students are asked to draw conclusions from an experiment that they have conducted.	ST098Q05TA01	ST098Q05TA02	ST098Q05TA03	ST098Q05TA04
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).	ST098Q06TA01	ST098Q06TA02	ST098Q06TA03	ST098Q06TA04
Students are allowed to design their own experiments.	ST098Q07TA01	ST098Q07TA02	ST098Q07TA03	ST098Q07TA04
There is a class debate about investigations.	ST098Q08NA01	ST098Q08NA02	ST098Q08NA03	ST098Q08NA04
The teacher clearly explains the relevance of broad science concepts to our lives.	ST098Q09TA01	ST098Q09TA02	ST098Q09TA03	ST098Q09TA04

Students are asked to do an investigation to test ideas.	ST098Q10NA01	ST098Q10NA02	ST098Q10NA03	ST098Q10NA04
Students have the opportunity to repeat experiments and compare observations.	ST098Q11NA01	ST098Q11NA02	ST098Q11NA03	ST098Q11NA04
Students are encouraged to question and critique scientific arguments made by other students.	ST098Q12NA01	ST098Q12NA02 O	ST098Q12NA03	ST098Q12NA04
Students are required to engage in discussions among themselves.	ST098Q13NA01	ST098Q13NA02	ST098Q13NA03	ST098Q13NA04

# Within the last month at school, has a computer or a similar device (e.g. a tablet) ever been used for the following purposes in your school science lessons?

	Yes, students did this	Yes, but only the teacher demonstrated this	No
Searching the Internet about science topics.	ST099Q01NA01	ST099Q01NA02	ST099Q01NA03
Analysing data from (real or simulated) science experiments using a spreadsheet program (e.g. Microsoft Office Excel, Apple Numbers).	ST099Q02NA01	ST099Q02NA02	ST099Q02NA03
Presenting results from (real or simulated) science experiments, using presentation software (e.g. Microsoft Office Power Point, Apple Keynote).	ST099Q03NA01	ST099Q03NA02	ST099Q03NA03
Studying science topics through multi-media content (e.g. simulations of natural phenomena).	ST099Q04NA01	ST099Q04NA02	ST099Q04NA03
Studying science topics through learning games (e.g. science experiment games).	ST099Q05NA01	ST099Q05NA02	ST099Q05NA03
Learning about science topics by watching science videos.	ST099Q06NA01	ST099Q06NA02	ST099Q06NA03
Planning and running simulated laboratory experiments.	ST099Q07NA01	ST099Q07NA02	ST099Q07NA03



What is the name of this school science course?	
When answering the following questions, please keep one of your current school sourse this should be.	science courses in mind all the time. You are free to choose whic
What is the name of this school science course? (Please type in the name of the course.)	ST065Q01NA01

#### **Branching rule**

Rule: IF (^ST003Q02TA01 = 01 OR ^ST003Q02TA01 = 03 OR ^ST003Q02TA01 = 05 OR ^ST003Q02TA01 = 07 OR ^ST003Q02TA01 = 09 OR ^ST003Q02TA01 = 11 OR ^ST003Q02TA01 = null) THEN GOTO ^ST100 ELSE GOTO ^ST101

	Every lesson	Most lessons	Some lessons	Never or hardly ever
The teacher shows an interest in every student's learning.	ST100Q01TA01	ST100Q01TA02	ST100Q01TA03	ST100Q01TA04
The teacher gives extra help when students need it.	ST100Q02TA01	ST100Q02TA02	ST100Q02TA03	ST100Q02TA04
The teacher helps students with their learning.	ST100Q03TA01	ST100Q03TA02	ST100Q03TA03	ST100Q03TA04
The teacher continues teaching until the students understand.	ST100Q04TA01	ST100Q04TA02	ST100Q04TA03	ST100Q04TA04
The teacher gives students an opportunity to express opinions.	ST100Q05TA01	ST100Q05TA02	ST100Q05TA03	ST100Q05TA04

## **Branching rule**

Rule: IF (^ST003Q02TA01 = 01 OR ^ST003Q02TA01 = 03 OR ^ST003Q02TA01 = 05 OR ^ST003Q02TA01 = 07 OR ^ST003Q02TA01 = 09 OR ^ST003Q02TA01 = 11 OR ^ST003Q02TA01 = null) THEN GOTO ^ST102 ELSE GOTO ^ST101

	Never or hardly ever	Some lessons	Most lessons	Every lesson
The teacher shows an interest in every student's learning.	ST101Q01TA01	ST101Q01TA02 O	ST101Q01TA03	ST101Q01TA04
The teacher gives extra help when students need it.	ST101Q02TA01 O	ST101Q02TA02	ST101Q02TA03	ST101Q02TA04
The teacher helps students with their learning.	ST101Q03TA01 O	ST101Q03TA02	ST101Q03TA03	ST101Q03TA04
The teacher continues teaching until the students understand.	ST101Q04TA01 O	ST101Q04TA02	ST101Q04TA03	ST101Q04TA04
The teacher gives students an opportunity to express opinions.	ST101Q05TA01	ST101Q05TA02	ST101Q05TA03	ST101Q05TA04

	Every lesson	Most lessons	Some lessons	Never or hardly ever
The teacher sets clear goals for our learning.	ST102Q01TA01	ST102Q01TA02	ST102Q01TA03	ST102Q01TA04
The teacher asks questions to check whether we have understood what was taught.	ST102Q02TA01	ST102Q02TA02	ST102Q02TA03	ST102Q02TA04
At the beginning of a lesson, the teacher presents a short summary of the previous lesson.	ST102Q03TA01	ST102Q03TA02	ST102Q03TA03	ST102Q03TA04
The teacher tells us what we have to learn.	ST102Q04TA01	ST102Q04TA02	ST102Q04TA03	ST102Q04TA04

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

	Never or almost never	Some lessons	Many lessons	Every lesson or almost every lesson
The teacher explains scientific ideas.	ST103Q01NA01	ST103Q01NA02	ST103Q01NA03	ST103Q01NA04
A small group discussion between students takes place.	ST103Q02NA01	ST103Q02NA02	ST103Q02NA03	ST103Q02NA04 O
A whole class discussion takes place with the teacher.	ST103Q03NA01	ST103Q03NA02	ST103Q03NA03 O	ST103Q03NA04
Current scientific issues are discussed.	ST103Q04NA01	ST103Q04NA02	ST103Q04NA03	ST103Q04NA04
Students make calculations using scientific formulas.	ST103Q05NA01	ST103Q05NA02	ST103Q05NA03 O	ST103Q05NA04
The teacher uses an interactive white board.	ST103Q06NA01	ST103Q06NA02	ST103Q06NA03	ST103Q06NA04
Students do their own scientific study and related research.	ST103Q07NA01	ST103Q07NA02	ST103Q07NA03	ST103Q07NA04
The teacher discusses our questions.	ST103Q08NA01	ST103Q08NA02	ST103Q08NA03 O	ST103Q08NA04
Students carry out practical work.	ST103Q09NA01	ST103Q09NA02	ST103Q09NA03 O	ST103Q09NA04

Students write up laboratory reports.	ST103Q10NA01	ST103Q10NA02	ST103Q10NA03	ST103Q10NA04
The teacher demonstrates an idea.	ST103Q11NA01	ST103Q11NA02	ST103Q11NA03 O	ST103Q11NA04
The teacher discusses questions of practical relevance.	ST103Q12NA01	ST103Q12NA02 O	ST103Q12NA03 O	ST103Q12NA04 O
Students read materials from a textbook.	ST103Q13NA01	ST103Q13NA02	ST103Q13NA03	ST103Q13NA04
Students take notes from the board.	ST103Q14NA01	ST103Q14NA02 O	ST103Q14NA03 O	ST103Q14NA04 O
Students discuss materials from a textbook.	ST103Q15NA01	ST103Q15NA02 O	ST103Q15NA03 O	ST103Q15NA04 O
Students watch videos.	ST103Q16NA01	ST103Q16NA02	ST103Q16NA03	ST103Q16NA04
Students use the internet.	ST103Q17NA01	ST103Q17NA02 O	ST103Q17NA03	ST103Q17NA04 O
The class corrects homework or a test.	ST103Q18NA01	ST103Q18NA02	ST103Q18NA03	ST103Q18NA04
Students fill out worksheets.	ST103Q19NA01	ST103Q19NA02 O	ST103Q19NA03 O	ST103Q19NA04 O
Students present something to the rest of the class.	ST103Q20NA01	ST103Q20NA02	ST103Q20NA03	ST103Q20NA04

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

	Never or almost never	Some lessons	Many lessons	Every lesson or almost every lesson
The teacher tells me how I am performing in this course.	ST104Q01NA01	ST104Q01NA02 O	ST104Q01NA03	ST104Q01NA04
The teacher gives me feedback on my strengths in this school science subject.	ST104Q02NA01	ST104Q02NA02 O	ST104Q02NA03	ST104Q02NA04
The teacher tells me in which areas I can still improve.	ST104Q03NA01	ST104Q03NA02 O	ST104Q03NA03	ST104Q03NA04 O
The teacher tells me how I can improve my performance.	ST104Q04NA01	ST104Q04NA02 O	ST104Q04NA03	ST104Q04NA04
The teacher advises me on how to reach my learning goals.	ST104Q05NA01	ST104Q05NA02	ST104Q05NA03	ST104Q05NA04

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

	Never or almost never	Some lessons	Many lessons	Every lesson or almost every lesson
The teacher compares my performance to what we have been studying in class.	ST105Q01NA01	ST105Q01NA02	ST105Q01NA03	ST105Q01NA04
The teacher lets me know whether I have correctly completed more or fewer tasks than my classmates.	ST105Q02NA01	ST105Q02NA02	ST105Q02NA03	ST105Q02NA04
The teacher compares my performance with my previous achievement.	ST105Q03NA01	ST105Q03NA02	ST105Q03NA03	ST105Q03NA04
The teacher compares my performance with what students in my grade should be able to achieve.	ST105Q04NA01	ST105Q04NA02	ST105Q04NA03	ST105Q04NA04
The teacher tells me if my performance is better or worse than the achievement of the rest of my class.	ST105Q05NA01	ST105Q05NA02	ST105Q05NA03	ST105Q05NA04
The teacher tells me if my work has improved or declined compared to my previous achievements.	ST105Q06NA01	ST105Q06NA02	ST105Q06NA03	ST105Q06NA04
The teacher lets me know whether I have correctly completed all tasks that I am supposed to accomplish.	ST105Q07NA01	ST105Q07NA02	ST105Q07NA03	ST105Q07NA04
The teacher compares my performance with the achievement of the rest of my class.	ST105Q08NA01	ST105Q08NA02	ST105Q08NA03	ST105Q08NA04

The teacher lets me know whether I have correctly completed more or fewer tasks in a recent test compared to previous tests.	ST105Q09NA01	ST105Q09NA02	ST105Q09NA03	ST105Q09NA04

#### How do you respond to the teacher's feedback for this school science course?

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

	Never or almost never	Sometimes	Often	Always or almost always
I put more effort into my work.	ST106Q01NA01	ST106Q01NA02	ST106Q01NA03	ST106Q01NA04
I change my learning strategies.	ST106Q02NA01	ST106Q02NA02	ST106Q02NA03	ST106Q02NA04
I focus on my weaknesses.	ST106Q03NA01	ST106Q03NA02	ST106Q03NA03	ST106Q03NA04
I practise specific kinds of tasks that I would like to improve.	ST106Q04NA01	ST106Q04NA02	ST106Q04NA03	ST106Q04NA04
I prepare better for lessons.	ST106Q05NA01	ST106Q05NA02	ST106Q05NA03	ST106Q05NA04
I focus on preparing for written tests.	ST106Q06NA01	ST106Q06NA02	ST106Q06NA03	ST106Q06NA04

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

	Never or almost never	Some lessons	Many lessons	Every lesson or almost every lesson
The teacher adapts the lesson to my class's needs and knowledge.	ST107Q01NA01	ST107Q01NA02	ST107Q01NA03	ST107Q01NA04
The teacher provides individual help when a student has difficulties understanding a topic or task.	ST107Q02NA01	ST107Q02NA02	ST107Q02NA03	ST107Q02NA04
The teacher changes the structure of the lesson on a topic that most students find difficult to understand.	ST107Q03NA01	ST107Q03NA02	ST107Q03NA03	ST107Q03NA04
The teacher provides individual support for advanced students.	ST107Q04NA01	ST107Q04NA02	ST107Q04NA03	ST107Q04NA04

# Thinking of your past two lessons in this school science course: how much do you disagree or agree with the following statements?

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

	Strongly disagree	Disagree	Agree	Strongly agree
The teacher made me feel confident in my ability to do well in the course.	ST108Q01NA01	ST108Q01NA02	ST108Q01NA03	ST108Q01NA04
The teacher listened to my view on how to do things.	ST108Q02NA01	ST108Q02NA02	ST108Q02NA03	ST108Q02NA04
I felt that my teacher understood me.	ST108Q03NA01	ST108Q03NA02	ST108Q03NA03	ST108Q03NA04
I felt confident in my ability to learn this material.	ST108Q04NA01	ST108Q04NA02	ST108Q04NA03	ST108Q04NA04

## Thinking of your past two lessons in this school science course: how much do you disagree or agree with the following statements?

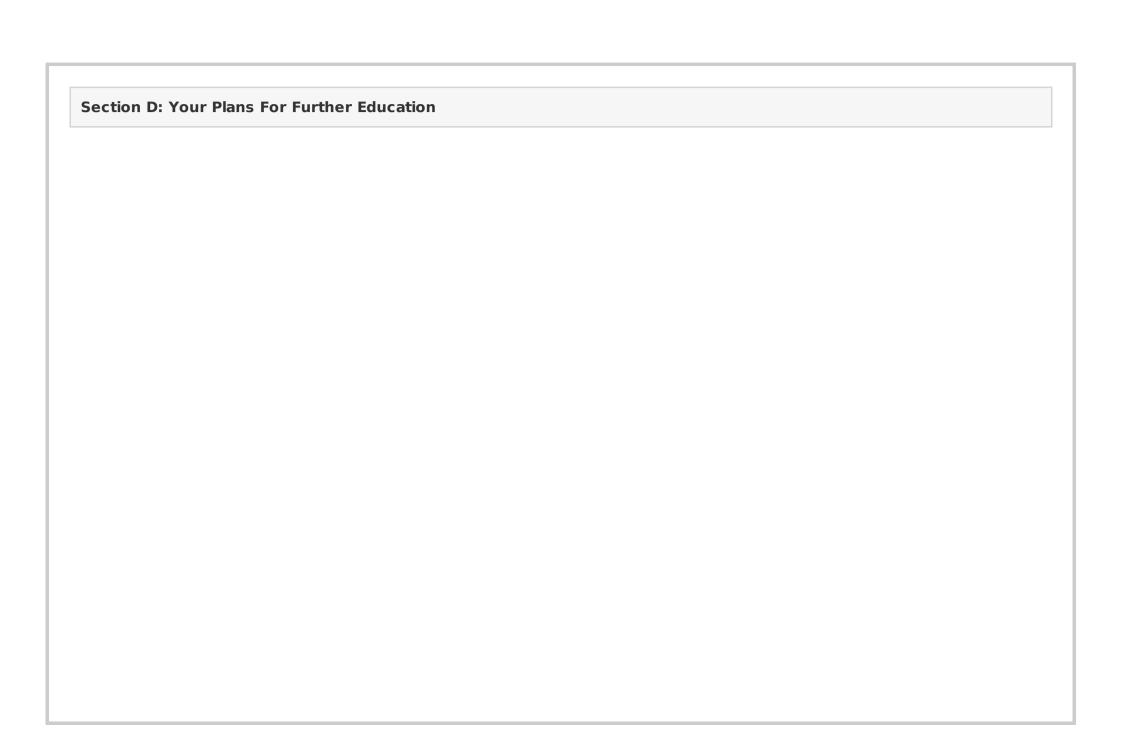
(Remember to answer this question in reference to the school science course you indicated earlier.)

	Strongly disagree	Disagree	Agree	Strongly agree
The teacher provided me with different alternatives (e.g. learning materials or tasks).	ST109Q01NA01	ST109Q01NA02	ST109Q01NA03	ST109Q01NA04
The teacher encouraged us to find the best way to proceed by ourselves.	ST109Q02NA01	ST109Q02NA02	ST109Q02NA03	ST109Q02NA04
The teacher let me work on my own.	ST109Q03NA01	ST109Q03NA02	ST109Q03NA03	ST109Q03NA04
The teacher appreciated when different solutions came up for discussion.	ST109Q04NA01	ST109Q04NA02 O	ST109Q04NA03	ST109Q04NA04

# Thinking of your past two lessons in this school science course: how much do you disagree or agree with the following statements?

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

	Strongly disagree	Disagree	Agree	Strongly agree
I had the feeling that the teacher was interested in the topics.	ST110Q01NA01	ST110Q01NA02	ST110Q01NA03	ST110Q01NA04
The teacher was totally involved in the topic.	ST110Q02NA01	ST110Q02NA02	ST110Q02NA03	ST110Q02NA04
It was clear to me that the teacher liked teaching us.	ST110Q03NA01	ST110Q03NA02	ST110Q03NA03	ST110Q03NA04
I could see that the teacher enjoyed giving us the lessons.	ST110Q04NA01	ST110Q04NA02	ST110Q04NA03	ST110Q04NA04
The enthusiasm of the teacher inspired me.	ST110Q05NA01	ST110Q05NA02	ST110Q05NA03	ST110Q05NA04
The teacher expressed that the topic is important to him/her.	ST110Q06NA01	ST110Q06NA02	STI10Q06NA03	ST110Q06NA04
It was clear that the teacher likes to deal with the topic of the lesson.	ST110Q07NA01	ST110Q07NA02	ST110Q07NA03	ST110Q07NA04
The teacher showed enjoyment in teaching.	ST110Q08NA01	ST110Q08NA02	ST110Q08NA03	ST110Q08NA04



Which of the following do you <u>expect</u> to complete?	
Please select one response.)	
Lower secondary	ST111Q01TA01
Upper secondary	ST111Q01TA03
Post-secondary certification (e.g. GCE A-level or ITE certification)	ST111Q01TA04
Polytechnic diploma	ST111Q01TA05
University Bachelor's Degree (with/without honours), Masters Degree	ST111Q01TA06

How	much	do	you	agree	with	the	statement	below?
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(Please select one response.)

	Strongly agree	Agree	Disagree	Strongly disagree
I would like to study broad science after secondary school.	ST112Q01TA01	ST112Q01TA02	ST112Q01TA03	ST112Q01TA04

## How much do you agree with the statements below?

	Strongly Agree	Agree	Disagree	Strongly Disagree
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.	ST113Q01TA01	ST113Q01TA02	ST113Q01TA03	ST113Q01TA04
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.	ST113Q02TA01	ST113Q02TA02	ST113Q02TA03	ST113Q02TA04
Studying my school science subject(s) is worthwhile for me because what I learn will improve my career prospects.	ST113Q03TA01	ST113Q03TA02	ST113Q03TA03	ST113Q03TA04
Many things I learn in my school science subject(s) will help me to get a job.	ST113Q04TA01	ST113Q04TA02	ST113Q04TA03	ST113Q04TA04

lease type in the job title.	ST114Q01TA01
	31114Q011A01

## How informed are you about these topics?

	Very well informed	Fairly informed	Not well informed	Not informed at all
Science-related careers that are available in the job market	ST115Q01TA01	ST115Q01TA02	ST115Q01TA03	ST115Q01TA04
Where to find information about science-related careers	ST115Q02TA01	ST115Q02TA02	ST115Q02TA03	ST115Q02TA04
The steps students need to take if they want a science-related career	ST115Q03TA01	ST115Q03TA02	ST115Q03TA03	ST115Q03TA04
Employers or companies that hire people to work in science-related careers	ST115Q04TA01	ST115Q04TA02	ST115Q04TA03	ST115Q04TA04

You are now ready to proceed to the next section.							