

*Dear science teacher,*

*Thank you for participating in this study.*

*This questionnaire asks for information about:*

- *Background information*
- *Your initial education and professional development*
- *Your school*
- *Science teaching practices*

*This information will help illustrate the similarities and differences between groups of teachers in order to better establish the context for students' test results.*

*The questionnaire should be completed by you only. It should take about 30 minutes to complete.*

*If you do not know an answer precisely, your best estimate will be adequate for the purpose of the study.*

*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 kept confidential. They will be combined with answers from other teachers to calculate totals and averages from which no single teacher can be identified.***

*To answer questions in this questionnaire, please consider the following definitions:*

*School science includes all school sciences courses referring to the domains of physics, chemistry, biology, Earth science or geology, space science or astronomy, applied sciences and technology either taught in your curriculum as separate science subjects or taught within a single 'integrated-science' subject. It does NOT include related subjects such as mathematics, psychology, economics or geography courses. Please note that there is a clear distinction between the definition of school science and science in this questionnaire.*

*Science refers to all topics covered in academic or popular science and technology. This encompasses all possible disciplines in the natural sciences (e.g. physics, chemistry, biology, Earth science or geology, space science or astronomy), including applied sciences, technology and engineering. In contrast to school science, science is not limited to subjects or courses that are taught at school.*

## Background information

**Are you female or male?**

*(Please select one response.)*

Female

TC001Q01NA01

☐

Male

TC001Q01NA02

☐

## How old are you?

*(Please move the slider to the appropriate number of years.)*

TC002Q01NA01

Years:

20 years or younger 70 years or older

**What is your employment status as a teacher at this school?**

*(Please select one response.)*

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Permanent employment (an on-going contract with no fixed end-point before the age of retirement)

TC004Q01NA01

☐

Fixed-term contract for a period of more than 1 school year

TC004Q01NA02

☐

Fixed-term contract for a period of 1 school year or less

TC004Q01NA03

☐

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### What is your current employment status as a teacher?

*(Please consider your employment status at this school and for all your teaching employment together.)*

*(Please select one response in each row.)*

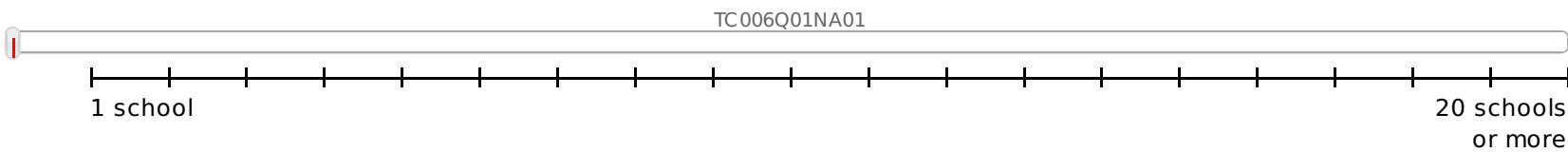
	<i>Full-time (more than 90% of full-time hours)</i>	<i>Part-time (71-90% of full-time hours)</i>	<i>Part-time (50-70% of full-time hours)</i>	<i>Part-time (less than 50% of full-time hours)</i>
My employment status at this school	TC005Q01NA01 <input type="radio"/>	TC005Q01NA02 <input type="radio"/>	TC005Q01NA03 <input type="radio"/>	TC005Q01NA04 <input type="radio"/>
All my teaching employments together	TC005Q02NA01 <input type="radio"/>	TC005Q02NA02 <input type="radio"/>	TC005Q02NA03 <input type="radio"/>	TC005Q02NA04 <input type="radio"/>

**In how many schools have you worked in the course of your teaching career?**

*(Include all schools, even if you worked at several schools at once.)*

*(Please move the slider to the appropriate number of schools.)*

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Schools:  TC006Q01NA01

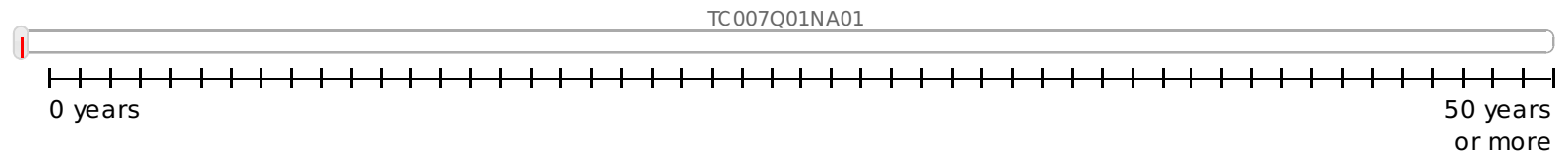
1 school 20 schools or more

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### How many years of work experience do you have?

*(Please round up to whole years no matter whether you worked part-time or full-time and move the slider to the appropriate number of years. If any option did not apply to you select "0" (zero).)*

Year(s) working as a  
teacher at this school



Year(s) working as a  
teacher in total





### Consistency check rule

Rule: If  $\text{^TC007Q01NA01} > \text{^TC007Q02NA01}$

Message: The number of years working at this school is greater than the number of years working in total. Please check your response.

## **Your initial education and professional development**

**What is the highest level of formal education you have completed?**

*(Please select one response.)*

Below college level

TC012C01NA01

☐

College (Non-degree, e.g., Higher diploma, Associate degree)

TC012C01NA02

☐

Bachelor degree

TC012C01NA03

☐

Master degree or above

TC012C01NA04

☐

**After completing upper secondary school, was your goal to pursue a career in the teaching profession?**

*(Please select one response.)*

Yes

TC013Q01NA01

☐

No

TC013Q01NA02

☐

**Did you complete a teacher education or training programme?**

*(Please select one response.)*

Yes

TC014Q01NA01

☐

No

TC014Q01NA02

☐

### How did you receive your teaching qualifications?

*(Please select one response.)*

I attended a standard teacher education or training programme at a university or college of education.

TC015C01NA01

☐

I attended an in-service teacher education or training programme.

TC015C01NA02

☐

I attended a work based teacher education or training programme.

TC015C01NA03

☐

Other

TC015C01NA04

☐

**Were any of the following included in your teacher education or training programme or other professional qualification and do you teach them to the Secondary 4/Grade 10 in the current school year?**

*(Because this is an international survey, we had to categorise many of the actual subjects taught in schools into broad categories. If the exact name of one of your subjects is not listed, please mark the category you think best fits the subject.)*

*(If you need further explanation for terms used in this question, please use the help button.)*

*(Please select all that apply.)*

**Reading, writing and literature:** reading and writing (and literature) in the mother tongue, in the language of instruction, or in the tongue of the country (region) as a second language (for non-natives); language studies, public speaking, literature

**Mathematics:** mathematics, mathematics with statistics, geometry, algebra, etc.

**Science:** natural sciences, physics, physical science, chemistry, biology, human biology, earth and space sciences, environmental science, agriculture/horticulture/forestry

**Technology:** orientation in technology, including information technology, computer studies, construction/surveying, engineering, electronics, graphics and design, keyboard skills, word processing, workshop technology/design technology

**Social studies:** social studies, community studies, contemporary studies, economics, environmental studies, geography, history, humanities, legal studies, studies of the own country, social sciences, ethical thinking, philosophy

**Modern foreign languages:** languages different from the language of instruction

**Ancient languages** (e.g. Latin)

**Arts:** arts, music, visual arts, practical art, drama, performance music, photography, drawing, creative handicraft, creative needlework

**Physical education:** physical education, gymnastics, dance, health

**Religion and/or ethics:** religion, history of religions, religion culture, ethics

**Practical and vocational skills:** vocational skills (preparation for a specific occupation), technics, domestic science, accountancy, business studies, career education, clothing and textiles, driving, home economics, polytechnic courses, secretarial studies, tourism and hospitality, handicraft.

*Included in my teacher education or training  
programme or other professional*

*I teach it to the Secondary 4/Grade 10 in  
the current school year*

*qualification**the current school year*

Reading, writing and literature	TC018Q01NA01 <input type="checkbox"/>	TC018Q01NB01 <input type="checkbox"/>
Mathematics	TC018Q02NA01 <input type="checkbox"/>	TC018Q02NB01 <input type="checkbox"/>
Science	TC018Q03NA01 <input type="checkbox"/>	TC018Q03NB01 <input type="checkbox"/>
Technology	TC018Q04NA01 <input type="checkbox"/>	TC018Q04NB01 <input type="checkbox"/>
Social studies	TC018Q05NA01 <input type="checkbox"/>	TC018Q05NB01 <input type="checkbox"/>
Modern foreign languages	TC018Q06NA01 <input type="checkbox"/>	TC018Q06NB01 <input type="checkbox"/>
Ancient languages (e.g. Latin)	TC018Q07NA01 <input type="checkbox"/>	TC018Q07NB01 <input type="checkbox"/>
Arts	TC018Q08NA01 <input type="checkbox"/>	TC018Q08NB01 <input type="checkbox"/>
Physical education	TC018Q09NA01 <input type="checkbox"/>	TC018Q09NB01 <input type="checkbox"/>
Religion and/or ethics	TC018Q10NA01 <input type="checkbox"/>	TC018Q10NB01 <input type="checkbox"/>
Practical and vocational skills	TC018Q11NA01 <input type="checkbox"/>	TC018Q11NB01 <input type="checkbox"/>





## Consistency check rule

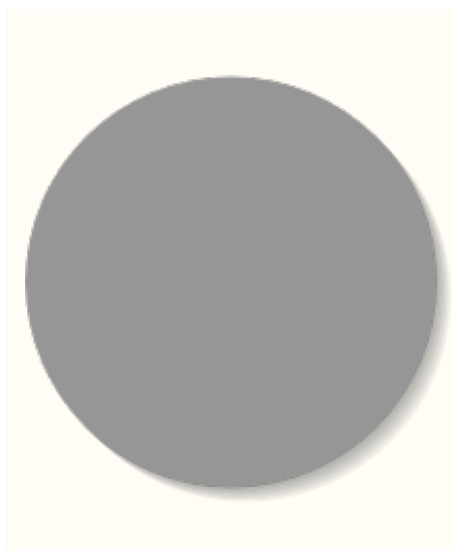
Rule: If (^TC018Q01NA01=0 and ^TC018Q02NA01=0 and ^TC018Q03NA01=0 and ^TC018Q04NA01=0 and ^TC018Q05NA01=0 and ^TC018Q06NA01=0 and ^TC018Q07NA01=0 and ^TC018Q08NA01=0 and ^TC018Q09NA01=0 and ^TC018Q10NA01=0 and ^TC018Q11NA01=0 and ^TC018Q01NB01=0 and ^TC018Q02NB01=0 and ^TC018Q03NB01=0 and ^TC018Q04NB01=0 and ^TC018Q05NB01=0 and ^TC018Q06NB01=0 and ^TC018Q07NB01=0 and ^TC018Q08NB01=0 and ^TC018Q09NB01=0 and ^TC018Q10NB01=0 and ^TC018Q11NB01=0)


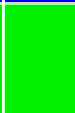


Message: Please select a response.

**What proportion of your teacher education or training programme or other professional qualification was dedicated to each of the following areas?**

*(For each area please enter an approximate percentage, e.g. "20" in the first row to indicate 20% of initial education time used for science and technology content matter.)*

*(Note that the percentages must add up to 100.)*



	<b>Science and technology content matter:</b> knowledge and skills in any science discipline	TC029Q01NA01 <input type="text"/>
	<b>Teaching and learning school science:</b> teaching methodology related to school science, instructional skills (e.g. use of experiments), student misconceptions	TC029Q02NA01 <input type="text"/>
	<b>General topics in education:</b> e.g. teacher-student interaction, classroom management, school evaluation, special education	TC029Q03NA01 <input type="text"/>
	<b>Other topics</b>	TC029Q04NA01 <input type="text"/>

### Consistency check rule

Rule: If  $((^{\wedge}\text{TC029Q01NA01} + ^{\wedge}\text{TC029Q02NA01} + ^{\wedge}\text{TC029Q03NA01} + ^{\wedge}\text{TC029Q04NA01}) > 100)$  OR  $((^{\wedge}\text{TC029Q01NA01} + ^{\wedge}\text{TC029Q02NA01} + ^{\wedge}\text{TC029Q03NA01} + ^{\wedge}\text{TC029Q04NA01}) < 100)$

Message: Sum does not add to 100%, please check your response.

**During the last 12 months, did you participate in any of the following activities?**

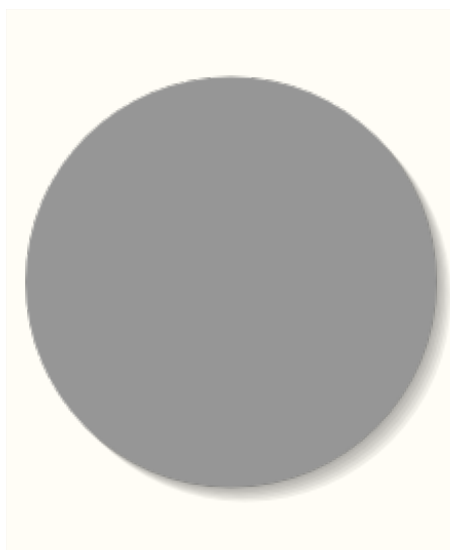
*(Please select one response in each row.)*


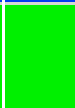


	<i>Yes</i>	<i>No</i>
Qualification programme (e.g. a degree programme)	TC020Q01NA01 <input type="radio"/>	TC020Q01NA02 <input type="radio"/>
Participation in a network of teachers formed specifically for the professional development of teachers	TC020Q02NA01 <input type="radio"/>	TC020Q02NA02 <input type="radio"/>
Individual or collaborative research on a topic of interest to you professionally	TC020Q03NA01 <input type="radio"/>	TC020Q03NA02 <input type="radio"/>
Mentoring and/or peer observation and coaching, as part of a formal school arrangement	TC020Q04NA01 <input type="radio"/>	TC020Q04NA02 <input type="radio"/>
Reading professional literature (e.g. journals, evidence-based papers, thesis papers)	TC020Q05NA01 <input type="radio"/>	TC020Q05NA02 <input type="radio"/>
Engaging in informal dialogue with your colleagues on how to improve your teaching	TC020Q06NA01 <input type="radio"/>	TC020Q06NA02 <input type="radio"/>

**During the last 12 months, what proportion of your professional development activities was dedicated to each of the following areas?**

*(For each area please enter an approximate percentage, e.g. "20" in the first row to indicate 20% of professional development activity time used for science and technology content matter.)*

*(Note that the percentages must add up to 100.)*



	<b>Science and technology content matter:</b> knowledge and skills in any science discipline	TC030Q01NA01 <input type="text"/>
	<b>Teaching and learning school science:</b> teaching methodology related to school science, instructional skills (e.g. use of experiments), student misconceptions	TC030Q02NA01 <input type="text"/>
	<b>General topics in education:</b> e.g. teacher-student interaction, classroom management, school evaluation, special education	TC030Q03NA01 <input type="text"/>
	<b>Other topics</b>	TC030Q04NA01 <input type="text"/>

### Consistency check rule

Rule: If (( ^TC030Q01NA01 + ^TC030Q02NA01 + ^TC030Q03NA01 + ^TC030Q04NA01) >100) OR  
((^TC030Q01NA01 + ^TC030Q02NA01 + ^TC030Q03NA01 + ^TC030Q04NA01) < 100)

Message: Sum does not add to 100%, please check your response.

**Are you required to take part in professional development activities?**

*(Please select one response.)*

Yes

TC021Q01NA01

☐

No

TC021Q01NA02

☐



**Your school**

## Is your school's capacity to provide instruction hindered by any of the following issues?

(Please select one response in each row.)

	<i>Not at all</i>	<i>Very little</i>	<i>To some extent</i>	<i>A lot</i>
A lack of teaching staff.	TC028Q01NA01 <input type="radio"/>	TC028Q01NA02 <input type="radio"/>	TC028Q01NA03 <input type="radio"/>	TC028Q01NA04 <input type="radio"/>
Inadequate or poorly qualified teaching staff.	TC028Q02NA01 <input type="radio"/>	TC028Q02NA02 <input type="radio"/>	TC028Q02NA03 <input type="radio"/>	TC028Q02NA04 <input type="radio"/>
A lack of assisting staff.	TC028Q03NA01 <input type="radio"/>	TC028Q03NA02 <input type="radio"/>	TC028Q03NA03 <input type="radio"/>	TC028Q03NA04 <input type="radio"/>
Inadequate or poorly qualified assisting staff.	TC028Q04NA01 <input type="radio"/>	TC028Q04NA02 <input type="radio"/>	TC028Q04NA03 <input type="radio"/>	TC028Q04NA04 <input type="radio"/>
A lack of educational material (e.g. textbooks, IT equipment, library or laboratory material).	TC028Q05NA01 <input type="radio"/>	TC028Q05NA02 <input type="radio"/>	TC028Q05NA03 <input type="radio"/>	TC028Q05NA04 <input type="radio"/>
Inadequate or poor quality educational material (e.g. textbooks, IT equipment, library or laboratory material).	TC028Q06NA01 <input type="radio"/>	TC028Q06NA02 <input type="radio"/>	TC028Q06NA03 <input type="radio"/>	TC028Q06NA04 <input type="radio"/>
A lack of physical infrastructure (e.g. building, grounds, heating/cooling, lighting and acoustic systems).	TC028Q07NA01 <input type="radio"/>	TC028Q07NA02 <input type="radio"/>	TC028Q07NA03 <input type="radio"/>	TC028Q07NA04 <input type="radio"/>
Inadequate or poor quality physical infrastructure (e.g. building, grounds, heating/cooling, lighting and acoustic systems).	TC028Q08NA01 <input type="radio"/>	TC028Q08NA02 <input type="radio"/>	TC028Q08NA03 <input type="radio"/>	TC028Q08NA04 <input type="radio"/>



**Is there any formal curriculum for science in Secondary 4/Grade 10?**

*(Please consider national, state, regional, or school policies.)*

*(Please select one response.)*

Yes

TC039Q01NA01

☐

No

TC039Q01NA02

☐

## Branching rule

Rule:        If (^TC039Q01NA01=1) then GOTO ^TC041 else GOTO ^TC031

**How much emphasis is given to the following approaches and processes in the intended science curriculum for Secondary 4/Grade 10?**

*(Please select one response in each row.)*

	<i>No emphasis</i>	<i>Very little emphasis</i>	<i>Some emphasis</i>	<i>A lot of emphasis</i>
Knowing basic science facts and principles	TC041Q01NA01 <input type="radio"/>	TC041Q01NA02 <input type="radio"/>	TC041Q01NA03 <input type="radio"/>	TC041Q01NA04 <input type="radio"/>
Observing natural phenomena and describing what is seen	TC041Q02NA01 <input type="radio"/>	TC041Q02NA02 <input type="radio"/>	TC041Q02NA03 <input type="radio"/>	TC041Q02NA04 <input type="radio"/>
Providing explanations of what is being studied	TC041Q03NA01 <input type="radio"/>	TC041Q03NA02 <input type="radio"/>	TC041Q03NA03 <input type="radio"/>	TC041Q03NA04 <input type="radio"/>
Designing and planning experiments or investigations	TC041Q04NA01 <input type="radio"/>	TC041Q04NA02 <input type="radio"/>	TC041Q04NA03 <input type="radio"/>	TC041Q04NA04 <input type="radio"/>
Conducting experiments or investigations	TC041Q05NA01 <input type="radio"/>	TC041Q05NA02 <input type="radio"/>	TC041Q05NA03 <input type="radio"/>	TC041Q05NA04 <input type="radio"/>
Integrating science with other subjects	TC041Q06NA01 <input type="radio"/>	TC041Q06NA02 <input type="radio"/>	TC041Q06NA03 <input type="radio"/>	TC041Q06NA04 <input type="radio"/>
Relating what students are learning to their daily lives	TC041Q07NA01 <input type="radio"/>	TC041Q07NA02 <input type="radio"/>	TC041Q07NA03 <input type="radio"/>	TC041Q07NA04 <input type="radio"/>
Incorporating the experiences of different ethnic/cultural groups	TC041Q08NA01 <input type="radio"/>	TC041Q08NA02 <input type="radio"/>	TC041Q08NA03 <input type="radio"/>	TC041Q08NA04 <input type="radio"/>



**Are parents informed about the availability and content of the science curriculum (e.g. in a parent-teacher conference or a newsletter)?**

*(Please select one response.)*

Yes

TC043Q01NA01

☐

No

TC043Q01NA02

☐



**To what extent do you disagree or agree with the following statements about regular cooperation among your fellow science teachers and yourself?**

*(Please select one response in each row.)*

	<i>Strongly disagree</i>	<i>Disagree</i>	<i>Agree</i>	<i>Strongly agree</i>
We discuss the achievement requirements for science when setting tests.	TC031Q04NA01 <input type="radio"/>	TC031Q04NA02 <input type="radio"/>	TC031Q04NA03 <input type="radio"/>	TC031Q04NA04 <input type="radio"/>
It is natural for us to cooperate on what homework to give to our students.	TC031Q07NA01 <input type="radio"/>	TC031Q07NA02 <input type="radio"/>	TC031Q07NA03 <input type="radio"/>	TC031Q07NA04 <input type="radio"/>
We discuss the criteria we use to grade written tests.	TC031Q11NA01 <input type="radio"/>	TC031Q11NA02 <input type="radio"/>	TC031Q11NA03 <input type="radio"/>	TC031Q11NA04 <input type="radio"/>
We exchange tasks for lessons and homework that cover a range of different levels of difficulty.	TC031Q13NA01 <input type="radio"/>	TC031Q13NA02 <input type="radio"/>	TC031Q13NA03 <input type="radio"/>	TC031Q13NA04 <input type="radio"/>
I prepare a selection of teaching units with my fellow science teachers.	TC031Q14NA01 <input type="radio"/>	TC031Q14NA02 <input type="radio"/>	TC031Q14NA03 <input type="radio"/>	TC031Q14NA04 <input type="radio"/>
We discuss ways to teach learning strategies and techniques to our students.	TC031Q15NA01 <input type="radio"/>	TC031Q15NA02 <input type="radio"/>	TC031Q15NA03 <input type="radio"/>	TC031Q15NA04 <input type="radio"/>
My fellow science teachers benefit from my specific skills and interests.	TC031Q18NA01 <input type="radio"/>	TC031Q18NA02 <input type="radio"/>	TC031Q18NA03 <input type="radio"/>	TC031Q18NA04 <input type="radio"/>
We discuss ways to better identify students' individual strengths and weaknesses.	TC031Q20NA01 <input type="radio"/>	TC031Q20NA02 <input type="radio"/>	TC031Q20NA03 <input type="radio"/>	TC031Q20NA04 <input type="radio"/>



**We would like to know how you generally feel about your job. How strongly do you agree or disagree with the following statements?**

*(Please select one response in each row.)*

	<i>Strongly disagree</i>	<i>Disagree</i>	<i>Agree</i>	<i>Strongly agree</i>
The advantages of being a teacher clearly outweigh the disadvantages.	TC026Q01NA01 <input type="radio"/>	TC026Q01NA02 <input type="radio"/>	TC026Q01NA03 <input type="radio"/>	TC026Q01NA04 <input type="radio"/>
If I could decide again, I would still choose to work as a teacher.	TC026Q02NA01 <input type="radio"/>	TC026Q02NA02 <input type="radio"/>	TC026Q02NA03 <input type="radio"/>	TC026Q02NA04 <input type="radio"/>
I regret that I decided to become a teacher.	TC026Q04NA01 <input type="radio"/>	TC026Q04NA02 <input type="radio"/>	TC026Q04NA03 <input type="radio"/>	TC026Q04NA04 <input type="radio"/>
I enjoy working at this school.	TC026Q05NA01 <input type="radio"/>	TC026Q05NA02 <input type="radio"/>	TC026Q05NA03 <input type="radio"/>	TC026Q05NA04 <input type="radio"/>
I wonder whether it would have been better to choose another profession.	TC026Q06NA01 <input type="radio"/>	TC026Q06NA02 <input type="radio"/>	TC026Q06NA03 <input type="radio"/>	TC026Q06NA04 <input type="radio"/>
I would recommend my school as a good place to work.	TC026Q07NA01 <input type="radio"/>	TC026Q07NA02 <input type="radio"/>	TC026Q07NA03 <input type="radio"/>	TC026Q07NA04 <input type="radio"/>
I am satisfied with my performance in this school.	TC026Q09NA01 <input type="radio"/>	TC026Q09NA02 <input type="radio"/>	TC026Q09NA03 <input type="radio"/>	TC026Q09NA04 <input type="radio"/>
All in all, I am satisfied with my job.	TC026Q10NA01 <input type="radio"/>	TC026Q10NA02 <input type="radio"/>	TC026Q10NA03 <input type="radio"/>	TC026Q10NA04 <input type="radio"/>



## Science teaching practices

## How often do these things happen in your science lessons?

(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>
Students are asked to draw conclusions from an experiment they have conducted.	TC037Q01NA01 <input type="radio"/>	TC037Q01NA02 <input type="radio"/>	TC037Q01NA03 <input type="radio"/>	TC037Q01NA04 <input type="radio"/>
Students are given opportunities to explain their ideas.	TC037Q02NA01 <input type="radio"/>	TC037Q02NA02 <input type="radio"/>	TC037Q02NA03 <input type="radio"/>	TC037Q02NA04 <input type="radio"/>
I explain scientific ideas.	TC037Q03NA01 <input type="radio"/>	TC037Q03NA02 <input type="radio"/>	TC037Q03NA03 <input type="radio"/>	TC037Q03NA04 <input type="radio"/>
A small group discussion between students takes place.	TC037Q04NA01 <input type="radio"/>	TC037Q04NA02 <input type="radio"/>	TC037Q04NA03 <input type="radio"/>	TC037Q04NA04 <input type="radio"/>
A whole class discussion takes place in which I participate.	TC037Q05NA01 <input type="radio"/>	TC037Q05NA02 <input type="radio"/>	TC037Q05NA03 <input type="radio"/>	TC037Q05NA04 <input type="radio"/>
Current scientific issues are discussed.	TC037Q06NA01 <input type="radio"/>	TC037Q06NA02 <input type="radio"/>	TC037Q06NA03 <input type="radio"/>	TC037Q06NA04 <input type="radio"/>
Students make calculations using scientific formulas.	TC037Q07NA01 <input type="radio"/>	TC037Q07NA02 <input type="radio"/>	TC037Q07NA03 <input type="radio"/>	TC037Q07NA04 <input type="radio"/>
I use an interactive white board.	TC037Q08NA01 <input type="radio"/>	TC037Q08NA02 <input type="radio"/>	TC037Q08NA03 <input type="radio"/>	TC037Q08NA04 <input type="radio"/>
Students do their own scientific study and related research.	TC037Q09NA01 <input type="radio"/>	TC037Q09NA02 <input type="radio"/>	TC037Q09NA03 <input type="radio"/>	TC037Q09NA04 <input type="radio"/>

I discuss questions that students ask.	TC037Q10NA01 <input type="radio"/>	TC037Q10NA02 <input type="radio"/>	TC037Q10NA03 <input type="radio"/>	TC037Q10NA04 <input type="radio"/>
Students carry out practical work.	TC037Q11NA01 <input type="radio"/>	TC037Q11NA02 <input type="radio"/>	TC037Q11NA03 <input type="radio"/>	TC037Q11NA04 <input type="radio"/>
Students write up laboratory reports.	TC037Q12NA01 <input type="radio"/>	TC037Q12NA02 <input type="radio"/>	TC037Q12NA03 <input type="radio"/>	TC037Q12NA04 <input type="radio"/>
I demonstrate an idea.	TC037Q13NA01 <input type="radio"/>	TC037Q13NA02 <input type="radio"/>	TC037Q13NA03 <input type="radio"/>	TC037Q13NA04 <input type="radio"/>
I discuss questions of practical relevance.	TC037Q14NA01 <input type="radio"/>	TC037Q14NA02 <input type="radio"/>	TC037Q14NA03 <input type="radio"/>	TC037Q14NA04 <input type="radio"/>
Students read materials from a textbook.	TC037Q15NA01 <input type="radio"/>	TC037Q15NA02 <input type="radio"/>	TC037Q15NA03 <input type="radio"/>	TC037Q15NA04 <input type="radio"/>
Students take notes from the board.	TC037Q16NA01 <input type="radio"/>	TC037Q16NA02 <input type="radio"/>	TC037Q16NA03 <input type="radio"/>	TC037Q16NA04 <input type="radio"/>
Students discuss materials from a textbook.	TC037Q17NA01 <input type="radio"/>	TC037Q17NA02 <input type="radio"/>	TC037Q17NA03 <input type="radio"/>	TC037Q17NA04 <input type="radio"/>
Students watch videos.	TC037Q18NA01 <input type="radio"/>	TC037Q18NA02 <input type="radio"/>	TC037Q18NA03 <input type="radio"/>	TC037Q18NA04 <input type="radio"/>
Students use the internet.	TC037Q19NA01 <input type="radio"/>	TC037Q19NA02 <input type="radio"/>	TC037Q19NA03 <input type="radio"/>	TC037Q19NA04 <input type="radio"/>
The class corrects homework or a test.	TC037Q20NA01 <input type="radio"/>	TC037Q20NA02 <input type="radio"/>	TC037Q20NA03 <input type="radio"/>	TC037Q20NA04 <input type="radio"/>
Students fill out worksheets.	TC037Q21NA01 <input type="radio"/>	TC037Q21NA02 <input type="radio"/>	TC037Q21NA03 <input type="radio"/>	TC037Q21NA04 <input type="radio"/>
Students present something to the rest of the class.	TC037Q22NA01 <input type="radio"/>	TC037Q22NA02 <input type="radio"/>	TC037Q22NA03 <input type="radio"/>	TC037Q22NA04 <input type="radio"/>





**To what extent can (or could) you do the following?**

*(Please select one response in each row.)*

	<i>Not at all</i>	<i>Very little</i>	<i>To some extent</i>	<i>To a large extent</i>
Design experiments and hands-on activities for inquiry-based learning	TC033Q04NA01 <input type="radio"/>	TC033Q04NA02 <input type="radio"/>	TC033Q04NA03 <input type="radio"/>	TC033Q04NA04 <input type="radio"/>
Assign tailored tasks to the weakest as well as to the best students	TC033Q05NA01 <input type="radio"/>	TC033Q05NA02 <input type="radio"/>	TC033Q05NA03 <input type="radio"/>	TC033Q05NA04 <input type="radio"/>
Use a variety of assessment strategies	TC033Q06NA01 <input type="radio"/>	TC033Q06NA02 <input type="radio"/>	TC033Q06NA03 <input type="radio"/>	TC033Q06NA04 <input type="radio"/>
Facilitate a discussion among students on how to interpret experimental findings	TC033Q08NA01 <input type="radio"/>	TC033Q08NA02 <input type="radio"/>	TC033Q08NA03 <input type="radio"/>	TC033Q08NA04 <input type="radio"/>

### To what extent can (or could) you do the following?

*(If you need further explanation of the term my "scientific discipline", please use the help button.)*

*(Please select one response in each row.)*

Your scientific discipline refers to one specific science discipline your main science subject belongs to. If you teach the same number of hours for several science subjects, you should choose only one and relate your answer to it.

	<i>Not at all</i>	<i>Very little</i>	<i>To some extent</i>	<i>To a large extent</i>
Explain a complex scientific concept to a fellow teacher	TC034Q01NA01 <input type="radio"/>	TC034Q01NA02 <input type="radio"/>	TC034Q01NA03 <input type="radio"/>	TC034Q01NA04 <input type="radio"/>
State and defend an informed position on ethical problems relating to science	TC034Q02NA01 <input type="radio"/>	TC034Q02NA02 <input type="radio"/>	TC034Q02NA03 <input type="radio"/>	TC034Q02NA04 <input type="radio"/>
Read state-of-the art papers in my scientific discipline	TC034Q04NA01 <input type="radio"/>	TC034Q04NA02 <input type="radio"/>	TC034Q04NA03 <input type="radio"/>	TC034Q04NA04 <input type="radio"/>
Explain the links between biology, physics and chemistry	TC034Q06NA01 <input type="radio"/>	TC034Q06NA02 <input type="radio"/>	TC034Q06NA03 <input type="radio"/>	TC034Q06NA04 <input type="radio"/>

**Thank you very much for your co-operation in completing this questionnaire!**