Identification Label

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By the end of this school year, how many years will you have been teaching altogether?

_____years Please **round** to the nearest whole number.

2

Are you female or male?

Check **one** circle only.

Female --- A Male --- A

3

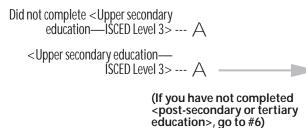
How old are you?

Check **one** circle only. Under 25 --- A25-29 --- A30-39 --- A40-49 --- A50-59 --- A60 or more --- A

4

What is the <u>highest</u> level of formal education you have completed?



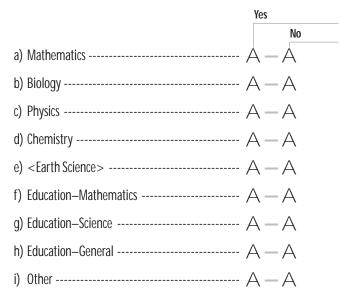


<Post-secondary, non-tertiary education—ISCED Level 4> --- A <Short-cycle tertiary education—ISCED Level 5> --- A <Bachelor's or equivalent level—ISCED Level 6> --- A <Master's or equivalent level—ISCED Level 7> --- A <Doctor or equivalent level—ISCED Level 8> --- A

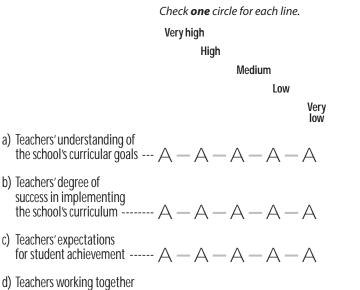
5

During your <post-secondary> education, what was your major or main area(s) of study?

Check one circle for each line.



How would you characterize each of the following within your school?



 d) Teachers working together to improve student achievement ------ A 7 ____

Thinking about your current school, indicate the extent to which you agree or disagree with each of the following statements.

Check **one** circle for each line.

Agree a lot

Agree a little

Disagree a little Disagree a lot

	aiot
a) This school is located in a safe neighborhood $\cdots \rightarrow A - A - A$	А
b) I feel safe at this school ${\sf A}-{\sf A}-{\sf A}-{\sf A}$	А
c) This school's security policies and practices are su $$ cient $\rm A-A-A-$.	А
d) The students behave in an orderly manner ${\rm A}-{\rm A}-{\rm A}-{\rm A}$	A
e) The students are respectful of the teachers $\rm A-A-A-$	A
f) The students respect school property ${\rm A}-{\rm A}-{\rm A}-{\rm A}$	A

- g) This school has clear rules about student conduct ------ ${\rm A}-{\rm A}-{\rm A}-{\rm A}$
- h) This school's rules are enforced in a fair and consistent manner ----- A A A

8

In your current school, how severe is each problem?

Check **one**

Indicate the extent to which you agree or disagree with each of the following statements.

	Check one circle for each line.	
	Agree a lot	
	Agree a little	
	Disagree a little	13
	Disagree a lot	
a) There are too many students in the classes	A - A - A - A	
b) I have too much material to cover in class	A - A - A - A	
c) I have too many teaching hours	A-A-A-A	1 /
d) I need more time to prepare for class	A-A-A-A	14
e) I need more time to assist individual students	A-A	

12

How many students are in this class?

students Write in the number.

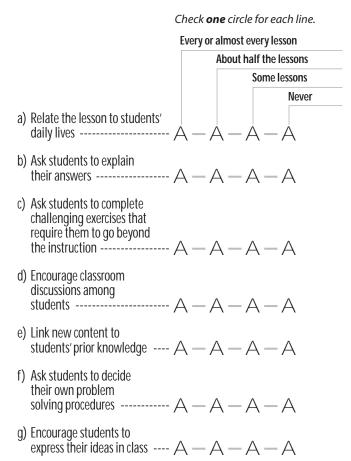
3

How many <eighth grade> students experience di culties understanding spoken < language of test>?

students in this class Write in the number.

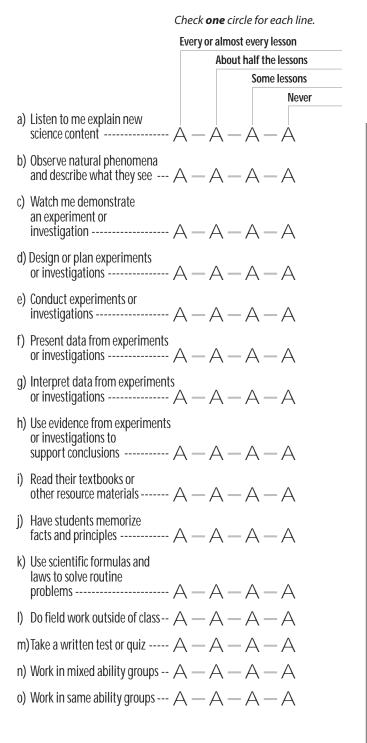
Δ

How often do you do the following in teaching this class?



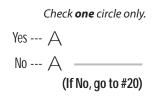
<Grade 8> Teacher Questionnaire – Science

In teaching science to the students in this class, how often do you ask them to do the following?



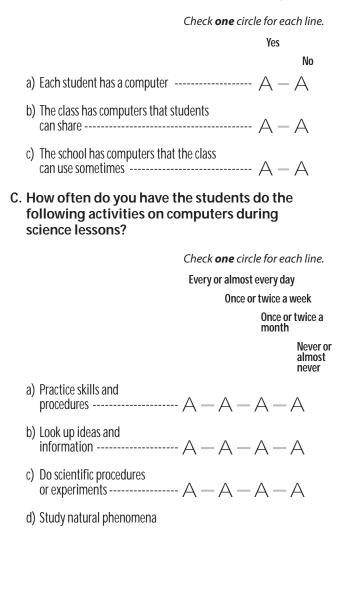
19

A. Do the students in this class have computers (including tablets) available to use during their science lessons?



If Yes,

B. What access do the students have to computers?



The following list includes the main topics addressed by the TIMSS science test. Choose the response that best describes when the students in this class have been taught each topic. If a topic was in the curriculum before the <<u>eighth grade</u>>, please choose "Mostly taught before this year." If a topic was taught half this year but not yet completed, please choose "Mostly taught this year." If a topic is not in the curriculum, please choose "Not yet taught or just introduced."

Check **one** circle for each line.

	Mostly taught before this year	
	Mostly taught this year	
	Not yet taught or just introduced	
A. Biology		
 a) Di erences among major taxonomic groups of organisms (plants, animals, fungi, mammals, birds, reptiles, fish, amphibians) 		
b) Major organs and organ systems in humans and other organisms (structure/function, life processes that maintain stable bodily conditions)	A A	
c) Cells, their structure and functions, including respiration and photosynthesis as cellular processes	-A-A-A	
 d) Life cycles, sexual reproduction, and heredity (passing on of traits, inherited versus acquired/learned characteristics) 	A A	
e) Role of variation and adaptation in survival/extinction of species in a changing environment (including fossil evidence for changes in life on Earth over time)	A A	
f) Interdependence of populations of organisms in an ecosystem (e.g., energy flow, food webs, competition, predation) and factors a ecting population size in an ecosystem	A A	
g) Human health (causes of infectious diseases, methods of infection, prevention, immunity) and the importance of diet and exercise in maintaining health	A A	
B. Chemistry		
a) Classification, composition, and particulate structure of matter (elements, compounds, mixtures, molecules, atoms, protons, neutrons, electrons)	A A	
b) Physical and chemical properties of matter	-A-A-A	
c) Mixtures and solutions (solvent, solute, concentration/dilution, e ect of temperature on solubility)	-A-A-A	
d) Properties and uses of common acids and bases	-A-A-A	
e) Chemical change (transformation of reactants, evidence of chemical change, conservation of matter, common oxidation reactions – combustion, rusting, tarnishing)	A A	
f) The role of electrons in chemical bonds	-A-A-A	

20 (continued)

Choose the response that best describes when the students in this class have been taught each topic. If a topic was in the curriculum before the <<u>eighth grade</u>>, please choose "Mostly taught before this year." If a topic was taught half this year but not yet completed, please choose "Mostly taught this year." If a topic is not in the curriculum, please choose "Not yet taught or just introduced."

	Check one circle for each line.	
	Mostly taught before this year	
	Mostly taught this year	
C. Physics	Not yet taught or just introduced	
-		
 a) Physical states and changes in matter (explanations of properties in terms of movement and distance between particles; phase change, thermal expansion, and changes in volume and/or pressure) 		
b) Energy forms, transformations, heat, and temperature	-A-A-A	
c) Basic properties/behaviors of light (reflection, refraction, light and color, simple ray diagrams) and sound (transmission through media, loudness, pitch, amplitude, frequency)	A A	
 d) Electric circuits (flow of current; types of circuits - parallel/series) and properties and uses of permanent magnets and electromagnets 	A A	
e) Forces and motion (types of forces, basic description of motion, e ects of density and pressure)	-A-A-A	
D. Earth Science		
a) Earth's structure and physical features (Earth's crust, mantle, and core; composition and relative distribution of water, and composition of air)	A A	
b) Earth's processes, cycles, and history (rock cycle; water cycle; weather versus climate; major geological events; formation of fossils and fossil fuels)	A A	
c) Earth's resources, their use and conservation (e.g., renewable/nonrenewable resources, human use of land/soil, water resources)	A A	
d) Earth in the solar system and the universe (phenomena on Earth - day/night, tides, phases of moon, eclipses, seasons; physical features of Earth compared to other bodies)	A-A	

A. How often do you usually assign science homework to the students in this class?

Check **one** circle only.

I do not assign science homework ---- A (Go to #22)

Less than once a week ---- A

<u>г</u>		
1		

25 (continued)

How well prepared do you feel you are to teach the following science topics? If a topic is not in the <<u>eighth grade</u>> curriculum or you are not responsible for teaching this topic, please choose "Not applicable."

	Check one circle for each line
	Not applicable
	Very well prepared
	Somewhat prepared
	Not well prepared
C. Physics	
a) Physical states and changes in matter (explanations of properties in terms of movement and obstween particles; phase change, thermal expansion, and changes in volume and/or pressure	distance $ $
b) Energy forms, transformations, heat, and temperature	A-A-A-A
c) Basic properties/behaviors of light (reflection, refraction, light and color, simple ray diagrams and sound (transmission through media, loudness, pitch, amplitude, frequency)	;) A-A-A
d) Electric circuits (flow of current; types of circuits - parallel/series) and properties and uses of permanent magnets and electromagnets	A-A-A-A
e) Forces and motion (types of forces, basic description of motion, e ects of density and pressure	e) $A - A - A$
D. Earth Science	
a) Earth's structure and physical features (Earth's crust, mantle, and core; composition and relation of water, and composition of air)	ve distribution $A - A - A - A$
b) Earth's processes, cycles, and history (rock cycle; water cycle; weather versus climate; major ge formation of fossils and fossil fuels)	eological events; A - A - A
c) Earth's resources, their use and conservation (e.g., renewable/nonrenewable resources, huma land/soil, water resources)	an use of $A - A - A - A$
d) Earth in the solar system and the universe (phenomena on Earth - day/night, tides, phases of seasons; physical features of Earth compared to other bodies)	$A - A - A$

Thank You

Thank you for the thought, time, and e ort you have put into completing this questionnaire.



<Grade 8>

