### **DRAFT**

Identification	n Label
Teacher Name:	
Class Name:	
Teacher ID:	
Teacher Link #:	
OMB # to go here	

# **TIMSS 2011**

**Field Test Version** 

# Teacher Questionnaire

### **Grade 4**

National Center for Education Statistics U.S. Department of Education 1990 K St., NW Washington, DC 20006



#### **Teacher** Questionnaire

Your school has agreed to participate in TIMSS 2011 (Trends in International Mathematics and Science Study), an educational research project sponsored by the International Association for the Evaluation of Educational Achievement (IEA). TIMSS measures trends in student achievement in mathematics and science and studies differences in national education systems in more than 60 countries in order to help improve teaching and learning worldwide.

This questionnaire is addressed to teachers of fourth-grade students, and seeks information about teachers' academic and professional backgrounds, classroom resources, instructional practices, and attitudes toward teaching. Since your class has been selected as part of a nationwide sample, your responses are very important in helping to describe primary education in the United States.

Some of the questions in the questionnaire refer to the "TIMSS class" or "this class". This is the class that is identified on the front of this booklet, and which will be tested as part of TIMSS in your school. If you teach some but not all of the students in the TIMSS class, please think only of the students that you teach when answering these class-specific questions. It is important that you answer each question carefully so that the information that you provide reflects your situation as accurately as possible.

Since TIMSS is an international study and all countries are using the same questionnaire, you may find that some of the questions seem unusual or are not entirely relevant to you or schools in the United States. Nevertheless, it is important that you do your best to answer all of the questions so comparisons can be made across countries in the studies.

It is estimated that you will need approximately 30 minutes to complete this questionnaire. We appreciate the time and effort that this takes and thank you for your cooperation and contribution.

When you have completed the questionnaire, please place it in the accompanying envelope and return it to the school coordinator.

NCES is authorized to collect information from this questionnaire under the Education Sciences Reform Act of 2002 (Public Law 107-279, Section 153). You do not have to provide the information requested. However, the information you provide will help the U.S. Department of Education's ongoing efforts to understand better how the educational system in the United States compares to that in other countries. There are no penalties should you choose not to participate in this study. Your answers may be used only for statistical purposes and may not be disclosed, or used, in identifiable form for any other purpose (Public Law 107-279, Section 183 and Title V, subtitle A of the E-Government Act of 2002 (P.L. 107-347)). Your responses will be combined with those from other participants to produce summary statistics and reports.

This survey is estimated to take an average of 30 minutes, including time for reviewing instructions, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to: Stephen Provasnik, National Center for Education Statistics, U.S. Department of Education, 1990 K Street NW, Room 9034, Washington, DC 20006-5650. Do not return the completed form to this address.

Thank you.

**TIMSS 2011** 

1	5	
By the end of this school year, how many years will you have been teaching altogether?	A. During your college or universi what was your <u>major or main</u> a	
	Check •	<b>one</b> circle for each line.
years Please <b>round</b> to the nearest whole number.		Yes
		No
)	a) Education - Primary/Elementary	·····
Are you female or male?	b) Education - Secondary	
Check <b>one</b> circle only.	c) Mathematics	
Female (	d) Science	
Male (	e) English	
male C	f) Other	
How old are you?  Check one circle only.	B. If your major or main area of steed education, did you have a specion in any of the following?	
Under 25	Check (	<b>one</b> circle for each line.
25-29 🔾		Yes
30-39		No
40-49	a) Mathematics	
50-59	b) Science	
60 or more	c) Language/reading	
	d) Other subject	
What is the highest level of formal education you have completed?  Check one circle only.	I	
Did not complete high school		
Completed high school		
Completed a vocational/technical certificate after high school		
Completed an Associate's degree (AA) in vocational/technical program		
Completed an Associate's degree (AA) or Bachelor's degree		
Completed an academic Master's degree, postgraduate certificate program (e.g., teaching) or first professional degree (e.g., law, medicine, dentistry)		

Completed a doctorate (Ph.D. or Ed.D) --

6

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

Check **one** circle for each line.

	Very high	
	High	
	N	ledium
		Low
		Ve lo
a) Teachers' job satisfaction		-0-0
b) Teachers' understanding of the school's curricular goals		-0-0
c) Teachers' degree of success in implementing the school's curriculum		-0-0
d) Teachers' expectations for student achievement		-0-0
e) Parental support for studentac hievement		-0-0
f) Parental involvement in school activities		-0-0
g) Students' regard for school property		-0-0
h) Students' desire to do well in school		-0-0

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
a) This school is located in a safe neighborhood	
b) I feel safe at this school	$\bigcirc -\bigcirc -\bigcirc -\bigcirc$
c) This school's security policies and practices are sufficient	0-0-0
d) The students behave in an orderly manner	0-0-0
e ) The students are respectful of the teachers	0-0-0

8

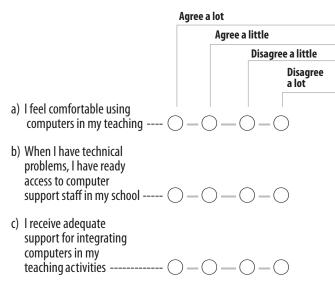
#### In your current school, how severe is each problem?

		Not a p	roblem	
			Minor p	roblem
				Moderate problem
				Serious problem
	hool building needs cant repair	) ()-(		
b) Classr	ooms are overcrowded	$\bigcirc$	-	)-(
c) Teach teachi	ers have too many ing hours	O-(	)-(	)-()
adequ prepa	ers do not have late workspace for ration, collaboration, eting with students	0-0	)-(	)-()
adequ	ers do not have late instructional ials and supplies	0-0	)—(	)-()

g

How much do you agree with the following statements about using computers in your teaching?

Check **one** circle for each line.



10

How often do you have the following types of interactions with other teachers?

	Never	or almost never
		2 or 3 times per month
		1-3 times per week
		Daily or almost daily
a)	Discuss how to teach a particular topic — (	
b	Collaborate in planning and preparing instructional materials	0-0-0
c)	Share what I have learned about my teaching experiences — (	0-0-0
d)	Visit another classroom to learn more about teaching - (	0-0-0
e)	Work together to try out new ideas — (	$)$ $ \bigcirc$ $ \bigcirc$

11

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

Check **one** circle for each line.

		Agree a lot	
		Agree a	little
			Disagree a little
			Disagree a lot
	nt with my profession er	)-()-(	)-()
b) I am satisf teacher at	ied with being a this school	)-()-(	)-()
I began te	enthusiasm when aching than I	)-()-(	)-()
d) I do impor a teacher	tant work as	)-()-(	)-()
e) I plan to co teacher for	ontinue as a r as long as I can	)-()-(	)-()
f) I am frustr	ated as a teacher	)-(-	)-()

_	Цашинан		:	46:-	-l2
A.	How many	/ students	are in	tnis	ciass:

students

Write in a number.

B. How many of the students in #12A are in fourth grade?

fourth-grade students

Write in a number.

How many students experience difficulties understanding spoken English?

 $\underline{\hspace{2cm}}_{\textit{Write in a number.}} \text{fourth-grade students in this class}$ 

A. Are you the students' general teacher for reading, mathematics and science?

Yes--- (If Yes, go to #15)

If No,

B. Which of the following subjects do you teach to this class?

Check **one** circle for each line.

a) I teach the class reading/language arts	$\bigcirc$	
b) I teach the class mathematics	$\bigcirc$	

c) I teach the class science -----  $\bigcirc$   $\bigcirc$ 

15

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

Check **one** circle for each line.

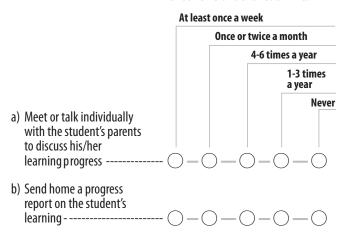
	Every or almost every lesson
	About half the lessons
	Some lessons
	Never
a) Summarize what students should have learned from the lesson	
b) Relate the lesson to current events	0-0-0-0
c) Use questioning to elicit reasons and explanations	0-0-0
d) Encourage all students to improve their performance	0-0-0-0
e) Praise students for good effort	0-0-0-0
f) Bring interesting materials toc lass	$\bigcirc -\bigcirc -\bigcirc -\bigcirc$

**16** 

### In your view, to what extent do the following limit how you teach this class?

	Not applicable
	Not at all
	Some
	A lot
a) Students lacking prerequisite knowledge or skills (	
b) Students suffering from lack of basic nutrition (	0-0-0
c) Students suffering from not enough sleep (	0-0-0
d) Students with special needs (e.g., physical disabilities, mental or emotional/ psychological impairment) (	
e) Disruptive students (	$\bigcirc -\bigcirc -\bigcirc -\bigcirc$
f) Uninterested students	$\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$

### For the typical student in this class, how often do you do these things?



## **Teaching Mathematics to the TIMSS Class**

Questions 1-3 ask about mathematics instruction for the <u>fourth-grade</u> students in the TIMSS class.

	ne do you spend udents in this class?
	minutes per week
	class, how confident
Check <b>o</b>	<b>ne</b> circle for each line.
Very co	nfident
	Somewhat confident
	Not confident
tions	
ty of gies ( — (	0-0
sks 	)-0
est (	)-0
	)-0
s et e	atics to the strain and

3

### In teaching mathematics to this class, how often do you usually ask students to do the following?

		Every or a	lmost ev	ery lesson
			About ha	olf the lessons
				Some lessons
				Never
a)	Listen to me explain how to solve problems		)—(	)-()
b)	Memorize rules, procedures, and facts	$\bigcirc$	)—(	)-()
c)	Work problems (individually or with peers) with my guidance	$\bigcirc$	)—(	)-()
d)	Work problems together in the whole class with direct guidance from me	0-0	)-(	)-()
e)	Work problems (individually or with peers) while I am occupied by other tasks		)-(	)-()
f)	Explain their answers	$\bigcirc$	)-(	$)-\bigcirc$
g)	Relate what they are learning in mathematics to their daily life	$\bigcirc$	)-(	)-()
h)	Take a written test or quiz	$\bigcirc$	)—(	$)-\bigcirc$

### Resources for Teaching Mathematics

Questions 4-6 ask about resources for teaching mathematics to the <u>fourth-grade</u> students in the TIMSS class.

Δ

When you teach mathematics to this class, how do you use the following resources?

Check **one** circle for each line.

	Basis fo	or instruction
		Supplement
		Not used
a)	Textbooks	
b)	Workbooks or worksheets	)-()
c)	Concrete objects or materials that help students understand quantities or procedures	)-0
d)	Computer software for mathematics instruction (e.g., CD, DVD, Internet)	)-()

5

Are the students in this class permitted to use calculators during mathematics lessons?

Check one circle only.

Yes, with unrestricted use --- Yes, with restricted use --- No, calculators are not permitted -

6

A. Do the students in this class have computer(s) available to use during their mathematics lessons?

Yes--- (If No, go to #7)

If Yes,

B. Do any of the computer(s) have access to the Internet?

Check **one** circle only.

Yes---

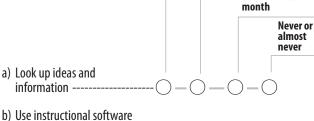
C. How often do you have the students do the following computer activities?

Check **one** circle for each line.

Once or twice a week

Once or twice a

Every or almost every day



to develop and practice skills and procedures -----

c) Use the school website for homework assignments -----

#### **Mathematics Topics Taught**

Questions 7-8 ask about the topics taught and the content covered in teaching mathematics to the <u>fourth-grade</u> students in the TIMSS class.

7

The following list includes the main topics addressed by the TIMSS mathematics test. Choose the response that best describes when the students in this class have been taught each topic. 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 <b>one</b> circle for each line.	
	Mostly taught before this year	
	Mostly taught this year	
	Not yet taught or just introduced	
A. Number		
a) Concepts of whole numbers, including place value and ordering		
b) Adding, subtracting, multiplying, and/or dividing with whole numbers		
c) Concepts of fractions (fractions as parts of a whole or of a collection, or as a location on a number line; comparing and ordering fractions)		
d) Adding and subtracting with fractions		
e) Concepts of decimals, including place value and ordering		
f) Adding and subtracting with decimals		
g) Number sentences (finding the missing number, modeling simple situations with number sentences)		
h) Number patterns (extending number patterns and finding missing terms)		
B. Geometric Shapes and Measures		
a) Lines: measuring, estimating length of; parallel and perpendicular lines		
b) Comparing and drawing angles		
c) Using informal coordinate systems to locate points in a plane (e.g., in square B4)		
d) Elementary properties of common geometric shapes		
e) Reflections and rotations		
f) Relationships between two-dimensional and three-dimensional shapes		
g) Finding and estimating areas, perimeters and volumes		
C. Data Display		
a) Reading data from tables, pictographs, bar graphs, or pie charts		
b) Drawing conclusions from data displays		
c) Displaying data using tables, pictographs, and bar graphs		

#### **Mathematics Content Coverage**

#### **Mathematics Homework**

8 =

By the end of this school year, approximately what percentage of teaching time will you have spent during this school year on each of the following mathematics content areas for the students in this class?

Write in the percentage for each.

a) Number (includes computation with whole numbers, fractions, decimals and number patterns)	
b) Geometric Shapes and Measures (includes two- and three-dimensional shapes, length, area and volume)	
c) Data Display (includes reading, making, and interpreting tables and graphs)	
d) Other, please specify:	
	%

Total = 100%

Question 9 asks about mathematics homework for the <u>fourth-grade</u> students in the TIMSS class.

9

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

Check one circle only.

I do not assign mathematics homework--
(Go to #10)

Less than once a week--
1 or 2 times a week--
3 or 4 times a week--
Every day---

B. When you assign mathematics homework to the students in this class, about how many minutes do you usually assign? (Consider the time it would take an average student in your class.)

Check one circle only.

15 minutes or less--
16-30 minutes--
31-60 minutes--
more than 60 minutes---

C. How often do you do the following with the mathematics homework assignments for this class?

Check **one** circle for each line.

Always or almost always

Sometimes

Never or almost Never

a) Correct assignments and give feedback to students ---
b) Discuss the homework in class ----
c) Monitor whether or not the homework was completed ----

#### **Mathematics Assessment**

Question 10 asks about mathematics assessment for the <u>fourth-grade</u> students in the TIMSS class.

10

How much emphasis do you place on the following sources to monitor students' progress in mathematics?

Check **one** circle for each line.

	Check on	e circle for each fine.	
	Major em	phasis	
		Some emphasis	
		Little or no emphasis	
a)	Evaluation of students' Ongoingw ork	)	
o)	Classroom tests (for example, teacher made or textbook tests)	)—()	
(2	State or district achievement tests	)—()	

### Preparation to Teach Mathematics

11

In the past two years, have you participated in professional development in any of the following?

	Yes
	No
a) Mathematics content	$\bigcirc -\bigcirc$
b) Mathematics pedagogy/instruction (	$\bigcirc -\bigcirc$
c) Mathematics curriculum	$\bigcirc -\bigcirc$
d) Integrating information technology into mathematics	)-()
e) Mathematics assessment (	$\bigcirc -\bigcirc$
f) Addressing individual students' needs (	$\bigcirc -\bigcirc$

12

How well prepared do you feel you are to teach the following mathematics topics?
If a topic is not in the curriculum or you are not responsible for teaching this topic you may check "not applicable."

	Not applicable	
	Very well prepared	
	Somewhat prepared	
	Not well prepared	
A. Number		
a) Concepts of whole numbers, including place value and ordering		
b) Adding, subtracting, multiplying and/or dividing with whole numbers		
c) Concepts of fractions (fractions as parts of a whole or of a collection, or as a location on a number line; comparing and ordering fractions)		
d) Adding and subtracting with fractions		
e) Concepts of decimals, including place value and ordering		
f) Adding and subtracting with decimals		
g) Number sentences (finding the missing number, modeling simple situations with number sentences)		
h) Number patterns (extending number patterns and finding missing terms)		
B. Geometric Shapes and Measures		
a) Lines: measuring, estimating length of; parallel and perpendicular lines		
b) Comparing and drawing angles		
c) Using informal coordinate systems to locate points in a plane (e.g., in square B4)		
d) Elementary properties of common geometric shapes		
e) Reflections and rotations		
f) Relationships between two-dimensional and three-dimensional shapes		
g) Finding and estimating areas, perimeters and volumes		
C. Data Display		
a) Reading data from tables, pictographs, bar graphs, or pie charts		
b) Drawing conclusions from data displays		
c) Displaying data using tables, pictographs, and bar graphs		

### Teaching Science to the TIMSS Class

Questions 1-3 ask about science instruction for the <u>fourth-grade</u> students in the TIMSS class.

1	
	Is science taught mainly as a separate subject (i.e., not integrated with other subjects) to the students in this class?
	Check <b>one</b> circle only.
	Yes
	No
A.	If Yes,
	How much time do you spend teaching science to the students in this class?
	hours andminutes per week Write in the hours and minutes.
В.	If No,
	Please estimate the time that you spend on science topics with students in this class.
	hours andminutes per week Write in the hours and minutes.

#### 2

### In teaching science to this class, how confident do you feel to do the following?

	Very confident
	Somewhat confident
	Not confident
a) Answer students' questions about science	
b) Explain science concepts or principles by doing science experiments	
c) Provide challenging tasks for capable students	
d) Adapt my teaching to engage students' interest	
e) Help students appreciate the value of learning science	

### Resources for Science Instruction

3

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

Check one circle for each line.

		Every or almost every lesson
		About half the lessons
		Some lessons
		Never
a)	Observe natural phenomena such as the weather or a plant growing and describe what they see	
b)	Watch me demonstrate an experiment or investigation	0-0-0
c)	Design or plan experiments or investigations	$\bigcirc -\bigcirc -\bigcirc -\bigcirc$
d)	Conduct experiments or investigations	0-0-0-0
e)	Read their textbooks or other resource materials	0-0-0-0
f)	Have students memorize facts and principles	0-0-0
g)	Give explanations about something they are studying	$\bigcirc -\bigcirc -\bigcirc -\bigcirc$
h)	Relate what they are learning in science to their daily lives	0-0-0
i)	Do field work outside the class	$\bigcirc -\bigcirc -\bigcirc -\bigcirc$
j)	Take a written test or quiz	

Questions 4-5 ask about resources for teaching science to the <u>fourth-grade</u> students in the TIMSS class.

4

### When you teach science to this class, how do you use the following resources?

	Basis for instruction
	Supplement
	Not used
a) Textbooks	
b) Workbooks or worksheets	
c) Science equipment and materials	
d) Computer software for science instruction (e.g., CD, DVD, Internet)	
e) Reference materials (e.g., encyclopedia, dictional	ary)

A. Do the students in this class have computer(s) available to use when you are teaching science?

Check one circle only.



(If No, go to #6)

If Yes,

B. Do any of the computer(s) have access to the Internet?

Check **one** circle only.

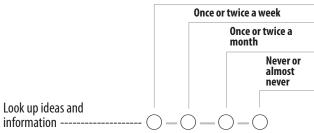
Yes---

No---()

C. How often do you have the students do the following computer activities?

Check **one** circle for each line.

Every or almost every day



b) Use instructional software to develop and practice skills and procedures -----

a) Look up ideas and

#### **Science Topics Taught**

Questions 6-7 ask about the topics taught and the content covered in teaching science to the <u>fourth-grade</u> students in the TIMSS class.

6

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 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 iust introduced A. Life Science b) Life cycles and reproduction in plants and animals ------ — — — — c) Physical features, behavior, and survival of organisms living in different environments -----d) Relationships in a given community (e.g., simple food chains, predator-prey relationships) -----e) Changes in environments (effects of human activity, pollution and its prevention) -----f) Human health (e.g., transmission/prevention of communicable diseases, signs of health/illness, diet, exercise) ------**B. Physical Science** a) States of matter (solids, liquids, gases) and differences in their physical properties (shape, volume), including changes in state of matter by heating and cooling -----b) Classification of objects/materials based on physical properties (e.g., weight/mass, volume, magnetic attraction) ----- — — c) Forming and separating mixtures -----d) Familiar changes in materials (e.g., decaying, burning, rusting, cooking) -----e) Common energy sources/forms and their practical uses (e.g., the Sun, electricity, water, wind) -----------------f) Light (e.g., sources, behavior) -----g) Electrical circuits and properties of magnets -----h) Forces that cause objects to move (e.g., gravity, push/pull forces) C. Earth Science b) Common features of Earth's landscape (e.g., mountains, plains, rivers, deserts) and relationship to human use (e.g., farming, irrigation, land development) ----c) Weather conditions from day to day or over the seasons -----d) Fossils of animals and plants (age, location, formation) -------------------e) Earth's solar system (planets, Sun, moon) ------ — — — — — — —

f) Day, night, and shadows due to Earth's rotation and its relationship to the Sun ---------------------------

#### **Science Content Coverage**

By the end of this school year, approximately what percentage of teaching time will you have spent during this school year on each of the following science content areas for the students in this class?

	Write in the percentag	ge for eac
a)	Life science (includes environmental issues)	%
o)	Physical science (includes topics in physics and chemistry)	%
2)	Earth science (includes Earth and the solar system)	%
d)	Other, please specify:	
		%

**Total = 100%** 

#### **Science Homework**

Question 8 asks about science homework for the fourth-grade students in the TIMSS class.

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 (Go to #9)
Less than once a week
1 or 2 times a week
3 or 4 times a week
Every day

Charles and single and

B. When you assign science homework to the students in this class, about how many minutes do you usually assign? (Consider the time it would take an average student in your class.)

	Check <b>one</b> circle only.
15 minutes or less	-
16-30 minutes	-
31-60 minutes	-
more than 60 minutes	-

C. How often do you do the following with the science homework assignments for this class?

Alwa	Always or almost always		
	Sometimes		
	Never or almost Never		
a) Correct assignments and give feedback to students —	-0-0		
b) Discuss the homework in class	-0-0		
c) Monitor whether or not the homework was completed —	-0-0		

#### **Science Assessment**

#### **Preparation to Teach Science**

Question 9 asks about science assessment for the <u>fourth-grade</u> students in the TIMSS class.

a

How much emphasis do you place on the following sources to monitor students' progress in science?

Check **one** circle for each line.

	Majo	or emphasis	
		Some emphasis	
		Little or no emphasis	
a)	Evaluation of students' ongoingw ork —	-0-0	
b)	Classroom tests (for example, teacher made or textbook tests)	-0-0	
c)	National or regional	-0-0	

10 \_\_\_

In the past two years, have you participated in professional development in any of the following?

	Yes
	No
a) Science content	$\bigcirc -\bigcirc$
b) Science pedagogy/instruction	$\bigcirc -\bigcirc$
c) Science curriculum	$\bigcirc -\bigcirc$
d) Integrating information technology into science	0-0
e) Science assessment	$\bigcirc -\bigcirc$
f) Addressing individual students' needs	$\bigcirc -\bigcirc$

11 \_\_\_

How well prepared do you feel you are to teach the following science topics?
If a topic is not in the curriculum or you are not responsible for teaching this topic you may check "not applicable."

	Not applicable
	Very well prepared
	Somewhat prepared
	Not well prepared
A. Life Science	
a) Major body structures and their functions in humans and other organisms (plants and animals)	
b) Life cycles and reproduction in plants and animals	
c) Physical features, behavior, and survival of organisms living in different environments	
d) Relationships in a given community (e.g., simple food chains, predator-prey relationships)	
e) Changes in environments (effects of human activity, pollution and its prevention)	
f) Human health (e.g., transmission/prevention of communicable diseases, signs of health/illness, diet, exercise)	
B. Physical Science	
a) States of matter (solids, liquids, gases) and differences in their physical properties (shape, volume), including changes in state of matter by heating and cooling	
b) Classification of objects/materials based on physical properties (e.g., weight/mass, volume, magnetic attraction)	
c) Forming and separating mixtures	
d) Familiar changes in materials (e.g., decaying, burning, rusting, cooking)	
e) Common energy sources/forms and their practical uses (e.g., the Sun, electricity, water, wind)	
f) Light (e.g., sources, behavior)	
g) Electrical circuits and properties of magnets	
h) Forces that cause objects to move (e.g., gravity, push/pull forces)	
C. Earth Science	
a) Water on Earth (location, types, and movement) and air (composition, proof of its existence, uses)	
b) Common features of Earth's landscape (e.g., mountains, plains, rivers, deserts) and relationship to human use (e.g., farming, irrigation, land development)	
c) Weather conditions from day to day or over the seasons	
d) Fossils of animals and plants (age, location, formation)	
e) Earth's solar system (planets, Sun, moon)	
f) Day, night, and shadows due to Earth's rotation and its relationship to the Sun	

# Thank You

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

#### **TIMSS & PIRLS International Study Center**

Lynch School of Education, Boston College timssandpirls.bc.edu



**DRAFT** 

# **TIMSS 2011**

**Field Test Version** 

# Teacher Questionnaire

**Grade 4** 



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