# Trends in International Mathematics and Science Study (TIMSS 2023) Field Test Data Collection and Main Study Sampling and Recruitment

OMB #1850-0695 v.19

**Appendix C: Questionnaires** 

Submitted by National Center for Education Statistics Institute of Education Sciences
U.S. Department of Education

June 2021 revised January 2022

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The following statement will appear on the login page for eTIMSS, MyTIMSS, and the bottom of the front cover of each printed questionnaire (the phrase "search existing data resources, gather the data needed" will not be included on the student questionnaire):

The National Center for Education Statistics (NCES), within the U.S. Department of Education, conducts TIMSS in the United States as authorized by the Education Sciences Reform Act of 2002 (ESRA 2002, 20 U.S.C. §9543). All of the information you provide may be used only for statistical purposes and may not be disclosed, or used, in identifiable form for any other purpose except as required by law (20 U.S.C. §9573 and 6 U.S.C. §151).

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless such collection displays a valid OMB control number. The valid OMB control number for this voluntary information collection is 1850-0695. The time required to complete this information collection is estimated to average [XX] minutes per [respondent type], including the time to review instructions [, search existing data resources, gather the data needed,] and complete and review the information collection. If you have any comments or concerns regarding the accuracy of the time estimate(s), suggestions for improving the form, or questions about the status of your individual submission of this form, write directly to: Trends in Mathematics and Science Study (TIMSS), National Center for Education Statistics, Potomac Center Plaza, 550 12<sup>th</sup> Street, SW, 4<sup>th</sup> floor, Washington, DC 20202.

OMB No. 1850-0695, Approval Expires xx/xx/20xx.

## TIMSS 2023 - Grade 4 - Field Test - English (United States)

#### **School Questionnaire**

#### **School Questionnaire**

Your school has agreed to participate in TIMSS 2023 (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 almost 60 countries in order to help improve teaching and learning worldwide.

This questionnaire is addressed to school principals and department heads who are asked to supply information about their schools. Since your school has been selected as part of a nationwide sample, your responses are very important in helping to describe primary/elementary education in the United States.

It is important that you answer each question carefully so that the information provided reflects the situation in your school as accurately as possible. Some of the questions will require that you look up school records, so you may wish to arrange for the assistance of another staff member to help provide this information.

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 study.

We appreciate the time and effort that this takes and thank you for your cooperation and contribution.

NCES is authorized to collect information from the questionnaire under the Education Sciences Reform Act of 2002 (ESRA 2002, 20 U.S.C. §9543). 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. All of the information you provide may be used only for statistical purposes and may not be disclosed, or used, in identifiable form for any other purpose except as required by law (20 U.S.C. §9573 and 6 U.S.C. §151). 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 burden to: Trends in International Mathematics and Science Study (TIMSS), National Center for Education Statistics, Potomac Center Plaza (PCP), 550 12th St., SW, 4th floor, Washington, DC 20202.

To begin the questionnaire, please click on the "Next" button. When navigating through the questionnaire, make sure to confirm your responses by clicking on the "Next" or "Back" button. To go to a particular section or item, please click on the corresponding link in the "Table of Contents".

When you have completed the questionnaire, please click on the "Finish" button at the end of the last question in order to submit your answers.

Thank you

# **School Enrollment and Characteristics**

1. wnat is th	e total enrollment of students in your school as of March 1, 2022?
	students
Type in the num	ber.
2. What is th	e total enrollment of fourth-grade students in your school as of March 1, 2022?
	students

Over 90%

3. Approximately what percentage of students in your school have the following backgrounds?					
		,	Click one circ	ele for each line.	
		0 to 10%	11 to 25%	26 to 50%	More than 50%
a)	Come from economically disadvantaged homes	$\circ$	0		
b)	Come from economically affluent homes				
	ound the 1st of October 2021, what p				eligible to
Type i	n the number.				
	percentage of students				
-	oproximately what percentage of studuage?	lents in your so	chool have En	glish as their ı	native
Click o	one circle only.				
	More than 90%				
	76 to 90%				
	51 to 75%				
	26 to 50%				
	25% or less				
	the students currently enrolled in yo ed-English proficient (LEP)/English la			has been iden	tified as
Click o	one circle only.				
	0%				
	1-5%				
	6-10%				
	11-25%				
	26-50%				
	51-75%				
$\circ$	76-90%				

7. A. now many people live in the city, town, or area where your school is located?
Click one circle only.
More than 500,000 people
100,001 to 500,000 people
50,001 to 100,000 people
30,001 to 50,000 people
15,001 to 30,000 people
3,001 to 15,000 people
3,000 people or fewer
B. Which best describes the immediate area in which your school is located?
Click one circle only.
Urban-Densely populated
Suburban–On fringe or outskirts of urban area
Medium size city or large town
Small town or village
Remote rural
Instructional Time
For the fourth-grade students in your school:
8. A. How many <u>days per year</u> is your school open for instruction?
days
Type in the number.
B. What is the total instructional time, excluding breaks, in a typical day?
minutes
Type in the number of minutes per day.  Please convert the number of hours into minutes.
C. In one <u>calendar week</u> , how many days is the school open for instruction?
Click <b>one</b> circle only.
○ 6 days

	5 1/2 days		
	5 days		
	4 1/2 days		
	4 days		
	Other		
	Resources and Technology		
9. Ho stude	w many computers (including tablets) doents?	es your scho	ool have for use by fourth-grade
	computers		
Type in	n the number.		
10. A.	. Does your school have a science labora	tory that can	n be used by fourth-grade students?
Click o	ne circle only.		
	Yes		
	No		
	teachers usually have assistance availal	ble when stu	udents are conducting science
Click o	ne circle only.		
	Yes		
	No		
	oes your school use an online learning m er-student communication, management		
Click o	ne circle only.		
	Yes		
	No		
12. D	o students in your school have access to	these resou	urces?
		Click <b>one</b> circ	rcle for each line.
		Yes	No
a)	A library or media center		
b)	Digital devices (e.g., computers, laptops, tablets)	4	

			Click one circle	e for each line.	
. General School Resources		Not at all	A little	Some	A lot
Instructional materials (e.g., te	extbooks)		$\circ$		$\circ$
Supplies (e.g., papers, pencils	s, materials)				
School buildings and grounds			$\circ$		
Heating/cooling and lighting sy	ystems		$\circ$		
Instructional space (e.g., class	srooms)		$\circ$		
Technologically competent sta	ıff		$\circ$		
Audio-visual resources for del instruction (e.g., interactive whe digital projectors)			0	0	0
Digital devices for student use	<b>)</b>				
Resources for students with d	isabilities	0	0	0	0
		ide instruction	affected by a	-	inadequa
(continued) w much is your school's ca	apacity to provi	ide instruction	·	-	
(continued) w much is your school's cathe following? . Resources for Mathematics Ins	apacity to provi		Click <b>one</b> circl	e for each line.	
(continued) w much is your school's cathe following? . Resources for Mathematics Ins	apacity to provi		Click <b>one</b> circl	e for each line.	inadequa A lot
(continued) w much is your school's cathe following?  Resources for Mathematics Ins Teachers with a specialization Computer software/application	apacity to provi		Click <b>one</b> circl	e for each line.	
(continued) w much is your school's car the following?  Resources for Mathematics Ins  Teachers with a specialization  Computer software/application mathematics instruction  Library resources relevant to re	apacity to provi		Click <b>one</b> circl	e for each line.	

C. F	Resources for Science Instruction		Not at all	A little	Some	A lot
a)	Teachers with a specialization in sci	ence				$\circ$
b)	Computer software/applications for instruction	science	$\bigcirc$	$\circ$	$\circ$	$\circ$
c)	Library resources relevant to science instruction	e	$\circ$	$\circ$	$\circ$	0
d)	Science equipment and materials for experiments	or	$\circ$	$\circ$	0	$\circ$
	School Emphasis on Acad	emic Succe	ess			
14. F	low would you characterize e	ach of the f	ollowing with	in your school	?	
		,	Click	cone circle for eac	h line.	
		Very high	High	Medium	Low	Very low
a)	Teachers' understanding of the school's curricular goals	$\circ$	0	0		0
b)	Teachers' degree of success in implementing the school's curriculum	0	0	0	0	0
c)	Teachers' expectations for student achievement	$\circ$	0	0	0	
d)	Teachers' ability to inspire students	$\circ$	$\circ$	$\circ$		
e)	Parental involvement in school activities	$\circ$	$\circ$	$\circ$	$\circ$	
f)	Parental commitment to ensure that students are ready to learn	$\circ$	$\circ$	0		
•	continued) would you characterize each	of the follo	wing within y	our school?		
		,	Click	one circle for eac	h line.	
		Very high	High	Medium	Low	Very low
g)	Parental expectations for student achievement	$\circ$	0	0	0	0
h)	Parental support for student achievement	$\circ$	$\bigcirc$	$\circ$	$\circ$	
i)	Students' desire to do well in school	$\circ$	$\circ$	$\circ$	$\circ$	

	Students' ability to reach school's academic goals		$\circ$			$\circ$
)	Students' respect for classmates who excel academically		0	0		0
	School Discipline and Safe	ety				
. To	what degree is each of the	following a	problem amo	ng fourth-grad	de students in	your
				Click <b>one</b> circle	for each line.	
			Not a problem	Minor problem	Moderate problem	Serious problem
)	Arriving late at school		$\circ$	$\circ$	$\circ$	
)	Absenteeism (i.e., unjustified abser	nces)	$\circ$	$\circ$	$\circ$	
:)	Classroom disturbance		$\bigcirc$	$\bigcirc$		
)	Cheating					
)	Profanity					
)	Vandalism					
)	Theft			$\circ$	$\circ$	
)	Intimidation or verbal abuse among (including texting, emailing, etc.)	students	$\circ$	$\circ$	$\circ$	
١	Physical fights among students		$\bigcirc$	$\bigcirc$		
)	Intimidation or verbal abuse of teac staff (including texting, emailing, etc.)	hers or	0	0	0	
. To	what degree is each of the	following a	problem amo	ng teachers ir	your school	?
			Click <b>one</b> cir	cle for each line.		
		Not a problem	Minor problem	Moderate problem	Serious problem	
a)	Arriving late or leaving early	$\circ$				
)	Absenteeism					
	School Readiness					

17. About how many of the students in your school can do the following when they begin the first grade of primary/elementary school?

<b>~</b> · · ·			•		
Click	$\alpha$	arrala	tor	$\alpha \alpha \alpha \alpha \alpha$	lina
( , I II . N	une	(.// (./ <del>c</del>	1011	-au	<i>     </i>

	Less than 25%	25–50%	51–75%	More than 75%
a) Recognize most of the letters of the alphabet				
b) Read some words				
c) Read sentences			$\circ$	$\circ$
d) Write letters of the alphabet			$\circ$	
e) Write their names				
f) Write words other than their names	$\circ$			
7. (continued) About how many of the students in your s prade of primary/elementary school?	school can do			egin the first
		Click <b>one</b> circle	for each line.	
	Less than 25%	25–50%	51–75%	More than 75%
g) Count up to 100 or higher		$\circ$		
h) Recognize written numbers from 1-10		$\bigcirc$		
i) Recognize written numbers higher than 10	$\circ$	$\circ$	$\circ$	
j) Write numbers from 1-10	$\circ$	$\circ$	0	$\circ$
k) Do simple addition				
I) Do simple subtraction	$\circ$			
Principal's Experience and Educate 8. By the end of this school year, how many sears		you have bee	n a principal a	altogether?
Please <b>round</b> to the nearest whole number.				
19. By the end of this school year, how ma	any years will	you have bee	n a principal a	at this schoo
years				
Please <b>round</b> to the nearest whole number.				
20. What is the highest level of formal edu	ucation you ha	ve completed	?	

Click	one circle only.					
	Did not complete Bachelor's degre	ee (4-year college progr	am)			
	Bachelor's degree (4-year college	program)				
	Master's degree or professional de	egree (MD, DDS, lawye	r, minister)			
	Doctorate (Ph.D., Ed.D.)					
21. C	o you hold the following qua	lifications or crede	ntials in <u>e</u>	ducatio	nal leadersh	<u>ip</u> ?
				Click one	e circle for each	line.
				Yes	No	
a)	Principal Certification			$\bigcirc$	C	)
b)	Master's degree or professional deg	gree (MD, DDS, lawyer,	minister)			)
c)	Doctorate (Ph.D., Ed.D.)				C	)
	COVID-19 Pandemic					
panc	lemic?		Click <b>one</b>	circle for e	each line.	
		The school did not fully close	Less than		One to three months	More than three months
a)	2019 – 2020 school year					
b)	2020 – 2021 school year	0				
c)	2021 – 2022 school year					
	olid your school provide these lemic?	additional remote	learning ı	resource	es during the	COVID-19
			,	Click one	circle for each	line.
				Yes	No	
a)	Printed learning materials for studer	nts (e.a. worksheets te	vthooks)			
b)		no (o.g., workeneete, to	XIDOOKS)			
	Digital devices (e.g., laptops, tablets		XIDOUKS)			
c)	Digital devices (e.g., laptops, tablets Online resources for students		KIDOOKS)	0	0	

e)	Digital devices (e.g., laptops, tablets) for teachers	$\circ$	$\circ$	
f)	Technical support for teachers			
Thank	c you for the thought, time, and effort you have put into completing this	questionnaire.		
To submit your completed questionnaire, please click the "Finish" button.				

## TIMSS 2023 - Grade 8 - Field Test - English (United States)

#### **School Questionnaire**

#### **School Questionnaire**

Your school has agreed to participate in TIMSS 2023 (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 almost 60 countries in order to help improve teaching and learning worldwide.

This questionnaire is addressed to school principals and department heads who are asked to supply information about their schools. Since your school has been selected as part of a nationwide sample, your responses are very important in helping to describe secondary education in the United States.

It is important that you answer each question carefully so that the information provided reflects the situation in your school as accurately as possible. Some of the questions will require that you look up school records, so you may wish to arrange for the assistance of another staff member to help provide this information.

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 study.

We appreciate the time and effort that this takes and thank you for your cooperation and contribution.

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To begin the questionnaire, please click on the "Next" button. When navigating through the questionnaire, make sure to confirm your responses by clicking on the "Next" or "Back" button. To go to a particular section or item, please click on the corresponding link in the "Table of Contents".

When you have completed the questionnaire, please click on the "Finish" button at the end of the last question in order to submit your answers.

Thank you.

## School Enrollment and Characteristics

1. What is th	e total enrollment of students in your school as of March 1, 2022?
	students
Type in the num	ber.
2. What is th	e total enrollment of <u>eighth-grade</u> students in your school as of March 1, 2022?
	students

Over 90%

3. Ap	pproximately what percentage of stude	ents in your so	chool have the	following bac	kgrounds?
			Click <b>one</b> circ	le for each line.	
		0 to 10%	11 to 25%	26 to 50%	More than 50%
a)	Come from economically disadvantaged homes	$\circ$			
b)	Come from economically affluent homes				
	ound the 1st of October 2021, what poive free or reduced-price lunches thro				eligible to
Туре	in the number.				
	percentage of students				
	oproximately what percentage of stude	ents in your so	chool have En	glish as their r	native
Click	one circle only.				
	More than 90%				
	76 to 90%				
	51 to 75%				
	26 to 50%				
	25% or less				
	ithe students currently enrolled in yo ed-English proficient (LEP)/English la			nas been ident	ified as
Click	one circle only.				
	0%				
	1-5%				
	6-10%				
	11-25%				
	26-50%				
	51-75%				
	76-90%				

7. А. п	ow many people live in the city, town, or area where your school is located?
Click one	e circle only.
	More than 500,000 people
	100,001 to 500,000 people
$\bigcirc$	50,001 to 100,000 people
$\bigcirc$	30,001 to 50,000 people
	15,001 to 30,000 people
$\circ$	3,001 to 15,000 people
$\circ$	3,000 people or fewer
B. Whi	ch best describes the immediate area in which your school is located?
Click one	e circle only.
	Urban-Densely populated
	Suburban–On fringe or outskirts of urban area
$\circ$	Medium size city or large town
	Small town or village
	Remote rural
ı	nstructional Time
For the	e eighth-grade students in your school:
8. A. H	ow many <u>days per year</u> is your school open for instruction?
	days
Type in t	he number.
B. Wha	t is the <u>total instructional time</u> , excluding breaks, in a <u>typical day</u> ?
	minutes
	he number of minutes per day. convert the number of hours into minutes.
C. In o	ne calendar week, how many days is the school open for instruction?
Click one	e circle only.
	6 days 13

	5 1/2 days		
	5 days		
	4 1/2 days		
	4 days		
	Other		
	Resources and Technology		
9. Hov	w many computers (including tablets) doents?	es your scho	ol have for use by eighth-grade
	computers		
Type in	the number.		
10. A.	Does your school have a science labora	tory that can	be used by eighth-grade students?
Click o	ne circle only.		
	Yes		
	No		
	teachers usually have assistance availal	ole when stu	dents are conducting science
Click o	ne circle only.		
	Yes		
	No		
	oes your school use an online learning m er-student communication, management		
Click o	ne circle only.		
	Yes		
	No		
12. Do	o students in your school have access to	these resou	rces?
		Click <b>one</b> circ	le for each line.
		Yes	No
a)	A library or media center		
b)	Digital devices (e.g., computers, laptops, tablets)	14	

			Click <b>one</b> circle	e for each line.	
<b>A</b> . G	eneral School Resources	Not at all	A little	Some	A lot
a)	Instructional materials (e.g., textbooks)	$\circ$	$\circ$		$\bigcirc$
)	Supplies (e.g., papers, pencils, materials)		$\circ$		
;)	School buildings and grounds		$\circ$		$\circ$
l)	Heating/cooling and lighting systems		$\circ$		$\circ$
<del>)</del> )	Instructional space (e.g., classrooms)	$\circ$	$\circ$		
·)	Technologically competent staff		$\circ$		
g)	Audio-visual resources for delivery of instruction (e.g., interactive white boards, digital projectors)		0	0	0
1)	Digital devices for student use		$\circ$	$\circ$	$\circ$
)	Resources for students with disabilities				
οw	much is your school's capacity to provi	ide instruction	affected by a	shortage or i	!l
f th	e following?		Click <b>one</b> circle	-	inadequa
	e following?  desources for Mathematics Instruction	Not at all		-	
			Click <b>one</b> circle	e for each line.	
<b>3. R</b>	esources for Mathematics Instruction		Click <b>one</b> circle	e for each line.	
3. R	Teachers with a specialization in mathematics  Computer software/applications for		Click <b>one</b> circle	e for each line.	A lot
3. <b>F</b>	Teachers with a specialization in mathematics  Computer software/applications for mathematics instruction  Library resources relevant to mathematics		Click <b>one</b> circle	e for each line.	

C. F	Resources for Science Instruction		Not at all	A little	Some	A lot
a)	Teachers with a specialization in sci	ence				$\circ$
b)	Computer software/applications for instruction	science			0	0
c)	Library resources relevant to science instruction	e			0	$\circ$
d)	Calculators for science instruction					$\circ$
e)	Science equipment and materials fo experiments	or			$\circ$	$\circ$
14. F	School Emphasis on Acade low would you characterize ea			nin your schoo	1?	
			Clic	k <b>one</b> circle for eac	ch line.	
		Very high	High	Medium	Low	Very low
a)	Teachers' understanding of the school's curricular goals		0		0	0
b)	Teachers' degree of success in implementing the school's curriculum	0	0		0	0
c)	Teachers' expectations for student achievement	0				
d)	Teachers' ability to inspire students	0				
e)	Parental involvement in school activities	0				
f)	Parental commitment to ensure that students are ready to learn	0		0	0	
	continued) would you characterize each	of the follo	wing within v	vour school?		
		,	Clic	k <b>one</b> circle for eac	ch line.	
		Very high	High	Medium	Low	Very low
g)	Parental expectations for student achievement	$\circ$				
h)	Parental support for student achievement	$\circ$			0	0
i)	Students' desire to do well in		16			

	school					
j)	Students' ability to reach school's academic goals			$\circ$		0
k)	Students' respect for classmates who excel academically	0	0	0	0	0
	low much do you agree with the n your school?	se staten	nents about	t mathematics	and science	education
				Click <b>one</b> cir	cle for each line.	
			Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	The school provides students with infor about career options in mathematics ar science		$\circ$		0	
b)	The school has initiatives to promote st interest in mathematics and science (e. student clubs, competitions)		0			0
c)	The school promotes professional development for teachers of mathematiscience	cs and	0		$\circ$	0
d)	The school provides extra lessons to he students excel in mathematics and scient		$\circ$	$\circ$	$\circ$	
e)	The school provides special activities in mathematics and science for interested students		0			0
f)	The school has a specific goal to impromathematics and science education	ve	$\circ$	$\circ$	$\circ$	
g)	The school encourages students to cor studying mathematics and science in the future		0		0	0
h)	Mathematics and science teachers in the school spend extra time working with stinterested in mathematics and science		0			0
	School Discipline and Safety					
	o what degree is each of the foll	owing a	problem an	nong eighth-g	rade students	in your
			Ci	lick <b>one</b> circle for	each line.	
			ot a blem p	-		Serious problem

			0	$\bigcirc$		
b)	Absenteeism (i.e., unjustified abser	ices)	$\circ$	$\bigcirc$	$\circ$	$\circ$
c)	Classroom disturbance		$\circ$			
d)	Cheating		$\circ$	$\bigcirc$		
e)	Profanity		$\circ$	$\bigcirc$		
f)	Vandalism		0	$\circ$		
	continued) hat degree is each of the follo	owing a pro	blem among	eighth-grade s	students in yo	ur school?
				Click <b>one</b> circle	for each line.	
			Not a problem	Minor problem	Moderate problem	Serious problem
g)	Theft					$\circ$
h)	Intimidation or verbal abuse among (including texting, emailing, etc.)	students				$\circ$
i)	Physical injury to students		$\circ$		0	
j)	Intimidation or verbal abuse of teac staff (including texting, emailing, etc.					$\circ$
k)	Physical injury to teachers or staff		$\circ$			
17. T	o what degree is each of the	following a	problem amo	ong teachers in	n your school	?
			Click <b>one</b> ci	rcle for each line.		
		Not a problem	Minor problem	Moderate problem	Serious problem	
a)	Arriving late or leaving early		$\bigcirc$		$\circ$	
b)	Absenteeism		$\circ$			
	Principal's Experience and	l Educatior	ı			
18. B	y the end of this school year	, how many	years will yo	u have been a	principal alto	gether?
Please	e <b>round</b> to the nearest whole number	:				
19. B	y the end of this school year	how many	years will yo	u have been a	principal at th	nis school?
	years					

Pleas	e <b>round</b> to the nearest whole num	ber.			
20. V	Vhat is the highest level of	formal education yo	u have com	pleted?	
Click	one circle only.				
	Did not complete Bachelor's d	egree (4-year college proo	gram)		
	Bachelor's degree (4-year coll-	ege program)			
	Master's degree or profession	al degree (MD, DDS, lawy	er, minister)		
	Doctorate (Ph.D., Ed.D.)				
21. D	o you hold the following q	ualifications or cred	entials in <u>ed</u>	lucational lead	<u>ership</u> ?
				Click <b>one</b> circle for	each line.
				Yes	No
a)	Principal Certification				
b)	Master's degree or professional	degree (MD, DDS, lawyer	r, minister)		
c)	Doctorate (Ph.D., Ed.D.)				
	COVID-19 Pandemic				
	COVID-19 Pandemic for how long was your scholemic?	ool fully closed for i	n-person ins	truction becau	se of the COVID-19
	or how long was your sch		n-person ins Click one circle		se of the COVID-19
	or how long was your sch				se of the COVID-19  More than three months
	or how long was your sch	The school did not	Click one circle Less than	for each line.  One to three	More than
pand	for how long was your schoolemic?	The school did not	Click one circle Less than	for each line.  One to three	More than
pand a)	For how long was your schoolemic?	The school did not	Click one circle Less than	for each line.  One to three	More than
a) b) c) 23. D	For how long was your schoolemic?  2019 – 2020 school year  2020 – 2021 school year	The school did not fully close	Click one circle  Less than one month	One to three months	More than three months
a) b) c) 23. D	for how long was your scholemic?  2019 – 2020 school year  2020 – 2021 school year  2021 – 2022 school year  Did your school provide the	The school did not fully close	Click one circle  Less than one month	One to three months	More than three months  G the COVID-19
a) b) c) 23. D	for how long was your scholemic?  2019 – 2020 school year  2020 – 2021 school year  2021 – 2022 school year  Did your school provide the	The school did not fully close	Click one circle  Less than one month	One to three months	More than three months  G the COVID-19
a) b) c) 23. D	for how long was your scholemic?  2019 – 2020 school year  2020 – 2021 school year  2021 – 2022 school year  Did your school provide the	The school did not fully close	Less than one month	One to three months  Sources during	More than three months  g the COVID-19

c)	Online resources for students		$\circ$			
d)	Pedagogical resources for teachers		$\circ$			
e)	Digital devices (e.g., laptops, tablets) for teachers	$\bigcirc$	$\bigcirc$			
f)	f) Technical support for teachers					
Thank you for the thought, time, and effort you have put into completing this questionnaire.						
To submit your completed questionnaire, please click the "Finish" button.						

## TIMSS 2023 - Grade 4 - Field Test - English (United States)

#### **Teacher Questionnaire**

#### **Teacher Questionnaire**

Your school has agreed to participate in TIMSS 2023 (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 almost 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/elementary 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 with the login documentation, 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.

We appreciate the time and effort that this takes and thank you for your cooperation and contribution.

NCES is authorized to collect information from the questionnaire under the Education Sciences Reform Act of 2002 (ESRA 2002, 20 U.S.C. §9543). 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. All of the information you provide may be used only for statistical purposes and may not be disclosed, or used, in identifiable form for any other purpose except as required by law (20 U.S.C. §9573 and 6 U.S.C. §151). 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 35 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 burden to: Trends in International Mathematics and Science Study (TIMSS), National Center for Education Statistics, Potomac Center Plaza (PCP), 550 12th St., SW, 4th floor, Washington, DC 20202.

To begin the questionnaire, please click on the "Next" button. When navigating through the questionnaire, make sure to confirm your responses by clicking on the "Next" or "Back" button. To go to a particular section or item, please click on the corresponding link in the "Table of Contents".

When you have completed the questionnaire, please click on the "Finish" button at the end of the last question in order to submit your answers.

Thank you.

# **About You**

1.	What :	year	did	you	start	teac	hing?	?
----	--------	------	-----	-----	-------	------	-------	---

Please t	type in	a year.
----------	---------	---------

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

	years
Please I	round to the nearest whole number.
3. Whi	ch of these describes you?
Click on	ne circle only.
$\circ$	Female
$\bigcirc$	Male
$\bigcirc$	Other
	Prefer not to say
4. How	v old are you?
Click on	e circle only.
	Under 25
	25–29
	30–39
	40–49
	50–59
	60 or more
5. Wha	at is the <u>highest</u> level of formal education you have completed?
Click <b>o</b> n	ne circle only.
	Did not complete high school
	High school graduate
	(If you have not completed any college, you will be directed to #7)
	Associate's degree (2-year college program)
	Bachelor's degree (4-year college program)
	Master's degree or professional degree (MD, DDS, lawyer, minister)
	Doctorate (Ph.D., Ed.D.)
6. A. D	Ouring your college or university education, what was your <u>major or main</u> area(s) of study?
	Click one circle for each line.
	Yes No

a)	Education—Primary/Elementary					
b)	Education—Secondary					
c)	Mathematics					
d)	Science					
e)	English					
f)	Other					
	your major or main area of s wing?	tudy was educ Click one circle		ou have a spec	cialization ir	n any of the
		Yes	No			
a)	Mathematics	$\circ$				
b)	Science	$\circ$				
c)	Language/reading	$\circ$				
d)	Other subject	$\bigcirc$				
7. Ho	School Emphasis on Acadow would you characterize ea		wing within	your school?  one circle for each	h line.	
		Very high	High	Medium	Low	Very low
a)	Teachers' understanding of the school's curricular goals	0	0			
b)	Teachers' degree of success in implementing the school's curriculum	0	0	0		0
c)	Teachers' expectations for student achievement	$\circ$				
d)	Teachers' ability to inspire students	$\circ$				
e)	Parental involvement in school activities	$\circ$			$\circ$	
f)	Parental commitment to ensure		00			

# 7. (continued)

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

		Click <b>one</b> circle for each line.				
		Very high	High	Medium	Low	Very low
g)	Parental expectations for student achievement				$\circ$	
h)	Parental support for student achievement			0	0	
i)	Students' desire to do well in school			0	0	
j)	Students' ability to reach school's academic goals			0		
k)	Students' respect for classmates who excel academically			0	0	
3. Но	School Environment ow much do you agree or disa	agree with th	e following s		-	rent school?
3. Но		agree with th		Click <b>one</b> circle	for each line.	
. Но		agree with th	e following s  Agree a lot		-	rent school?  Disagree a lot
		agree with th	Agree	Click one circle	for each line.  Disagree	Disagree
a)	ow much do you agree or disa		Agree	Click one circle	for each line.  Disagree	Disagree
a) b)	I feel safe at this school  This school's security policies and p	practices	Agree	Click one circle	for each line.  Disagree	Disagree
a) b)	I feel safe at this school  This school's security policies and pare sufficient	practices	Agree	Click one circle	for each line.  Disagree	Disagree
a) b) c)	I feel safe at this school  This school's security policies and pare sufficient  The students behave in an orderly response.	oractices manner eachers	Agree	Click one circle	for each line.  Disagree	Disagree
a) b) c) d) e)	I feel safe at this school  This school's security policies and pare sufficient  The students behave in an orderly recommendation.	oractices manner eachers	Agree	Click one circle	for each line.  Disagree	Disagree

# **About Being a Teacher**

9. How often do you have these feelings about being a teacher?

		Very often	Often	Sometimes	Never or almost never
a) I am content with my pro	fession as a teacher	$\circ$			$\circ$
b) I find my work full of mea	aning and purpose		$\circ$		
c) I am enthusiastic about i	my job				
d) My work inspires me					
e) I am proud of the work I	do	$\circ$			$\circ$
f) I feel appreciated as a te	eacher				
g) I enjoy the challenges of	teaching				
			Click <b>one</b> ci	rcle for each line.	
		Agree a lot	Agree a little	Disagree a little	Disagree a lot
a) There are too many stud	ents in the classes	$\bigcirc$	$\circ$	$\circ$	
b) I have too much materia	to cover in class		$\circ$		$\circ$
c) I have too many teaching	g hours				$\circ$
d) I need more time to prep	are for class				
e) I need more time to assi	st individual students				
f) I feel too much pressure	from parents				
g) I have difficulty keeping changes to the curriculu		0	0		0
h) I have too many adminis	trative tasks	$\circ$			$\circ$
About Teaching th	e TIMSS Class				
1. A. How many student	s are in this class?	•			
students					
Type in the number.					
3. How many of the stude	ents in #11A are in	fourth grade?	•		
fourth-grade stu	dents				

12. F	low many fourth-grade students experience	difficultie	es understandi	ng <u>spoken</u> Eı	nglish?
	students in this class				
Туре	n the number.				
13. F	low often do you do the following in teachin	g this cla	ss?		
		,	Click <b>one</b> cir	cle for each line.	
		Every or almost every lesson	About half the lessons	Some lessons	Never
a)	Relate the lesson to students' daily lives		$\circ$	$\circ$	
b)	Ask students to explain their answers		$\bigcirc$		
c)	Communicate goals or objectives for the lesson to the students		$\circ$	$\circ$	0
d)	Ask students to complete challenging exercises that require them to go beyond the instruction		0		0
e)	Encourage classroom discussions among students			$\circ$	
f)	Link new content to students' prior knowledge		$\circ$	$\circ$	
g)	Ask students to decide their own problem solving procedures	0	0		0
h)	Encourage students to express their ideas in class		$\bigcirc$	$\circ$	
4. lı	n your view, to what extent do the following	limit how	you teach this	class?	
			Click o	ne circle for eacl	h line.
			Not at all	Some	A lot
a)	Students lacking prerequisite knowledge or skills		$\circ$	$\circ$	
b)	Students suffering from lack of basic nutrition		$\bigcirc$	$\circ$	
c)	Students suffering from not enough sleep		$\circ$		
d)	Students absent from class		$\circ$		
e)	Disruptive students		$\circ$	$\circ$	
f)	Uninterested students				

Type in the number.

g)	Distracted students				
h)	Students with mental, emotional, or psychological i	mpairment	$\circ$	$\circ$	
i)	Students with difficulties understanding the language instruction	ge of	0	0	0
	Teaching Mathematics to the TIMSS C	lass			
15. In	a typical week, how much time do you s	spend teach	ing mathemation	cs to the stud	ents in this
	minutes per week				
	n the number of minutes per week. se convert the number of hours into minutes.				
16. In	teaching mathematics to this class, how	v often do y	ou ask student	s to do the fo	llowing?
			Click <b>one</b> circ	le for each line.	
		Every or almost every lesson	About half the lessons	Some lessons	Never
a)	Listen to me explain new mathematics content				
b)	Listen to me explain how to solve problems		$\circ$	$\circ$	
c)	Memorize rules, procedures, and facts		$\circ$	$\circ$	
d)	Practice procedures on their own		$\circ$	$\circ$	
e)	Apply what they have learned to new problem situations on their own	$\circ$	$\circ$	$\circ$	$\circ$
f)	Work problems together in the whole class with direct guidance from me	$\circ$	0	$\circ$	0
g)	Work in mixed ability groups			$\circ$	
h)	Work in same ability groups			$\circ$	$\circ$
	Using Calculators and Digital Devices TIMSS Class	for Teachi	ng Mathematic	s to the	
17. A	re students in this class permitted to use	e calculators	s during mathe	matics lessor	ns?
Click c	ne circle only.				
	Yes, with unrestricted use				
	Yes, with restricted use				
	No	27			

	. Do the students in this class hav tphones) available to use during i	•	` •	nputers, table	ts, or
Click o	ne circle only.				
	Yes				
	No				
18. B	. What access do the students ha	ve to digital devi	ices?		
			Click <b>one</b> cir	cle for each line.	-
			Yes	No	
a)	The class has digital devices for each stud	dent to use	$\circ$	$\circ$	
b)	The class has digital devices that students	s can share			
c)	The school has digital devices that the cla	ss can use sometime	es		
d)	Students bring their own digital devices				
C. Ho	ow often do you have students us	e digital devices	during mathem	natics instruct	ion?
Click o	ne circle only.				
	At least once a week				
	Once or twice a month				
	A few times a year				
	Never or almost never				
	. How often do you ask the studer ematics activities?	nts in your class	to use digital d	levices to do t	hese
			Click <b>one</b> circle	e for each line.	
		At least once a week	Once or twice a month	A few times a year	Never or almost never
a)	Practice problems and procedures				
b)	Solve extended or contextualized problems	0			
c)	Create graphs, tables, or other data displays	0	0		
d)	Play games involving mathematics calculations or concepts				

e)	Read the textbook or watch instructional videos			
	low much do each of these keep you from incorporate oction?	ting digital dev	rices into math	nematics
		Click <b>one</b> circle for each line.		
		Not at all	Somewhat	A lot
a)	Not knowing how to use digital devices to improve student learning		$\circ$	0
b)	Not enough access to digital devices		$\circ$	
c)	Keeping students on task when the class is using digital devices		$\circ$	
d)	Lack of technical support from the school			
	Mathematics Topics Taught to the TIMSS Class			
	he following list includes topics addressed by the TI onse that best describes when each topic is taught for			ose the
ou	opic was in the curriculum before fourth grade, choo have taught a topic this year, choose "Mostly taught e curriculum for this year or you have not yet taught	this year". If a a topic, choos	topic is not in se "Not yet tau	the fourtight".
ou/	have taught a topic this year, choose "Mostly taught	this year". If a a topic, choos	topic is not in	the fourtight".
ou grad	have taught a topic this year, choose "Mostly taught	this year". If a a topic, choos	topic is not in se "Not yet tau	the fourtight".
ou Jrad	have taught a topic this year, choose "Mostly taught e curriculum for this year or you have not yet taught	this year". If a a topic, choos  Click of the Mostly taught before this	topic is not in se "Not yet tau one circle for each Mostly taught	the fourt ght". line.
ou jrad	have taught a topic this year, choose "Mostly taught e curriculum for this year or you have not yet taught	this year". If a a topic, choos  Click of the Mostly taught before this	topic is not in se "Not yet tau one circle for each Mostly taught	the fourt ght". line.
ou Jrad A. N	have taught a topic this year, choose "Mostly taught e curriculum for this year or you have not yet taught lumber  Recognize place value and order whole numbers	this year". If a a topic, choos  Click of the Mostly taught before this	topic is not in se "Not yet tau one circle for each Mostly taught	the fourt ght". line.
A. N a)	have taught a topic this year, choose "Mostly taught e curriculum for this year or you have not yet taught lumber  Recognize place value and order whole numbers  Add and subtract up to 4-digit numbers	this year". If a a topic, choos  Click of the Mostly taught before this	topic is not in se "Not yet tau one circle for each Mostly taught	the fourt ght". line.
A. N a) b)	have taught a topic this year, choose "Mostly taught e curriculum for this year or you have not yet taught lumber  Recognize place value and order whole numbers  Add and subtract up to 4-digit numbers  Multiply up to 3-digit by 1-digit and 2-digit by 2-digit numbers	this year". If a a topic, choos  Click of the Mostly taught before this	topic is not in se "Not yet tau one circle for each Mostly taught	the fourt ght". line.
A. N a) b) c) d)	have taught a topic this year, choose "Mostly taught e curriculum for this year or you have not yet taught lumber  Recognize place value and order whole numbers  Add and subtract up to 4-digit numbers  Multiply up to 3-digit by 1-digit and 2-digit by 2-digit numbers  Divide up to 3-digit by 1-digit numbers	this year". If a a topic, choos  Click of the Mostly taught before this	topic is not in se "Not yet tau one circle for each Mostly taught	the fourt ght". line.
A. N a) b) c)	have taught a topic this year, choose "Mostly taught e curriculum for this year or you have not yet taught lumber  Recognize place value and order whole numbers  Add and subtract up to 4-digit numbers  Multiply up to 3-digit by 1-digit and 2-digit by 2-digit numbers  Divide up to 3-digit by 1-digit numbers  Solve problems with odd/even numbers, multiples, or factors	this year". If a a topic, choos  Click of the Mostly taught before this	topic is not in se "Not yet tau one circle for each Mostly taught	the fourt ght". line.
(Ou grad d) (A. N a) (b) (c) (d) (e)	have taught a topic this year, choose "Mostly taught e curriculum for this year or you have not yet taught  lumber  Recognize place value and order whole numbers  Add and subtract up to 4-digit numbers  Multiply up to 3-digit by 1-digit and 2-digit by 2-digit numbers  Divide up to 3-digit by 1-digit numbers  Solve problems with odd/even numbers, multiples, or factors  Round or make estimations with whole numbers	this year". If a a topic, choos  Click of the Mostly taught before this	topic is not in se "Not yet tau one circle for each Mostly taught	the fourt ght". line.
(Ou g)radd (A. N a) b) c) d) e) f) g)	have taught a topic this year, choose "Mostly taught e curriculum for this year or you have not yet taught  lumber  Recognize place value and order whole numbers  Add and subtract up to 4-digit numbers  Multiply up to 3-digit by 1-digit and 2-digit by 2-digit numbers  Divide up to 3-digit by 1-digit numbers  Solve problems with odd/even numbers, multiples, or factors  Round or make estimations with whole numbers  Find the missing number or operation in a number sentence  Extend a number pattern or find the missing number in a	this year". If a a topic, choos  Click of the Mostly taught before this	topic is not in se "Not yet tau one circle for each Mostly taught	the fourt ght". line.

	Represent, compare, and order decimals up to two places	GCOITIAI			
)	Add and subtract with decimals up to two decimal p	laces			
•	continued) ose the response that best describes whe	n each topic is	taught for stu	dents in this c	lass.
ou ł	opic was in the curriculum before fourth on ave taught a topic this year, choose "Mo e curriculum for this year or you have not	stly taught this	year". If a top	ic is not in the	fourth
			Clic	k <b>one</b> circle for ea	nch line.
В. М	leasurement and Geometry		Mostl taugh befor this ye	t taught e this	Not ye
a)	Measure, estimate, add, and subtract lengths				
)	Add and subtract mass, volume, or time in appropri	ate units			
:)	Find perimeters of polygons		0		
d)	Find areas of shapes covered with squares or volumes of shapes filled with cubes				
e)	Recognize and draw parallel and perpendicular line	es			
)	Compare and draw angles				
<b>j</b> )	Describe and draw common two-dimensional shape quadrilaterals)	es (e.g., circles, triar	ngles,		
1)	Describe and draw common three-dimensional sha rectangular solids, cones, cylinders, spheres)	pes (e.g., cubes,	0		
		Click	one circle for eac	h line.	_
C. D	ata	Mostly taught before this year	Mostly taught this year	Not yet taugh	t
a)	Read and interpret data displays	0	0		
)	Create or complete data displays	0	$\circ$	0	
;)	Draw conclusions from two or more data sources				

Click <b>c</b>	one circle only.			
	I do not assign mathematics homework			
	Less than once a week			
	1 or 2 times a week			
	3 or 4 times a week			
	Every day			
1. B	<ul><li>How often do you do the following with the</li></ul>	e mathematics	homework as	signments for this
		Click	one circle for eac	h 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 of the TIMSS	Class		
	ow much importance do you place on thes ematics?	e strategies to a	issess studer	nts' learning in
		Click <b>one</b>	circle for each lin	e.
		A lot	Some	None
a)	Observing students as they work			$\circ$
b)	Asking students to answer questions during class	$\circ$		
c)	Short, regular written assessments	$\circ$		
d)	Longer tests (e.g., unit tests or exams)	$\circ$		$\circ$
e)	Long-term projects			
	bout how often do fourth-grade students in blets?	n this class take	mathematics	tests on computers
lick <b>c</b>	one circle only.			
	More than once a month			
	Once a month			

	Twice a year				
	Once a year				
	Never				
	Professional Development to Tea	ach Mathemati	cs		
24.					
		A. In the past to you partic professional d any of the	cipated in evelopment in	B. Do you i professional d any of the	
		Click one circle	e for each line.	Click one circl	e for each line.
		Yes	No	Yes	No
a)	Mathematics content	$\circ$	$\circ$		$\circ$
b)	Mathematics pedagogy/instruction	$\circ$			$\circ$
c)	Mathematics curriculum	$\circ$			$\circ$
d)	Integrating technology into mathematics instruction	0	0	0	0
e)	Improving students' critical thinking or problem solving skills	0	0	0	0
f)	Mathematics assessment	$\bigcirc$			$\circ$
g)	Addressing individual students' needs	$\bigcirc$			$\circ$
	Teaching Science to the TIMSS O	Class			
	. Is science taught mainly as a sepa tudents in this class?	arate subject (i.	e., not integrate	ed with other s	ubjects) to
Click c	one circle only.				
	Yes				
	No				
B. Pl	ease estimate the time that you spe	end on science	topics with stu	dents in this cla	ass.
	minutes per week				
	n the number of minutes per week. se convert the number of hours into minutes.				

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

<b>~</b> :: :			•		
1,11017	$\alpha$	circle	tor	$\alpha \alpha \alpha h$	lina
( , III . N	une	(.//(./	1011	cault	<i>     </i>

		Every or almost every lesson	About half the lessons	Some lessons	Never		
a)	Listen to me explain new science content		$\circ$	$\circ$			
b)	Observe natural phenomena such as the weather or a plant growing and describe what they see	$\circ$	0	0	$\circ$		
c)	Watch me demonstrate an experiment or investigation	$\circ$	$\circ$	$\circ$	$\circ$		
d)	Read their textbooks or other resource materials			$\circ$			
e)	Memorize facts and principles		$\bigcirc$				
f)	Do field work outside the class		$\bigcirc$	$\bigcirc$			
g)	Work in mixed ability groups		$\circ$	$\circ$			
h)	Work in same ability groups						
			A lot	Some	None		
a)	Encouraging students to ask questions about scient	iific	A lot	Some	None		
	phenomena						
b)	Having students predict the outcomes of experimen investigations	ts or		$\circ$			
c)	Having students create representations (e.g., mode to explain scientific phenomena	ls, graphs)	0	$\circ$	$\circ$		
d)	Having students use scientific concepts to explain p	henomena					
28. A	A. How often do you provide opportunities s?	for studen	ts to do the fo	ollowing when to	eaching this		
		,	Click one circle for each line.				
		Once a week or more	Once or twice a month	Once or twice every few months	Never or almost never		
a)	Experiments or investigations that are carried out in a single lesson						

b)	Experiments or investigations that are carried out over a series of lessons		0	0	$\bigcirc$
c)	Hands-on activities to explore science concepts				
d)	Experiments with a prescribed set of steps to answer a given question		0		
e)	Experiments where students determine their own procedures to answer a given question		$\circ$	0	
	. How often do you go to a separate science la tigations with students in this class?	boratory	when conduc	ting experiments	or
Click c	one circle only.				
	Always or almost always				
	Sometimes				
	Never or almost never				
	Using Digital Devices for Teaching Science	to the TI	MSS Class		
	B 4 4 1 4 1 41 1 1 1 1 1 1 1 1 1 1 1 1 1	iooo (inol	udina comput	ers. tablets. or	
	. Do the students in this class have digital dev tphones) available to use during science lesso		<b>3</b> - 1 <b>1 1 1</b>	, , .	
smar			<b>3</b> ** <b>p</b> **	,	
smar	tphones) available to use during science lesso				
smar	tphones) available to use during science lessone circle only.				
smar Click o	tphones) available to use during science lessone circle only.  Yes	ons?			
smar Click o	tphones) available to use during science lessone circle only.  Yes  No	ons?	Click <b>one</b> circle fo		
smar Click o	tphones) available to use during science lessone circle only.  Yes  No	ons?			
smar Click o	tphones) available to use during science lessone circle only.  Yes  No	ons?	Click <b>one</b> circle fo	r each line.	
smar Click o	tphones) available to use during science lessone circle only.  Yes  No . What access do the students have to digital o	ons?	Click <b>one</b> circle fo	r each line.	
smar Click o 29. B	tphones) available to use during science lessone circle only.  Yes  No  . What access do the students have to digital of the class has digital devices for each student to use	devices?	Click <b>one</b> circle fo	r each line.	
smar Click of 29. B	tphones) available to use during science lessone circle only.  Yes  No  No  The class has digital devices for each student to use  The class has digital devices that students can share	devices?	Click <b>one</b> circle fo	r each line.	
smar Click of  29. B  a) b) c) d)	tphones) available to use during science lessone circle only.  Yes  No  . What access do the students have to digital of the class has digital devices for each student to use  The class has digital devices that students can share  The school has digital devices that the class can use some	devices?	Yes	No	
smar Click c  29. B  a) b) c) d) C. Ho	tphones) available to use during science lessone circle only.  Yes  No  What access do the students have to digital of the class has digital devices for each student to use  The class has digital devices that students can share  The school has digital devices that the class can use some Students bring their own digital devices	devices?	Yes	No	
smar Click c  29. B  a) b) c) d) C. Ho	tphones) available to use during science lessone circle only.  Yes  No  . What access do the students have to digital of the class has digital devices for each student to use  The class has digital devices that students can share  The school has digital devices that the class can use some students bring their own digital devices  ow often do you have students use digital devices	devices?	Yes	No	

			Click <b>one</b> circle fo	or oooh lino	
			Click <b>one</b> circle to	or each line.	
		At least once a week	Once or twice a month	A few times a year	Never o almost never
)	Solve extended or contextualized problems	$\circ$	0	0	0
)	Create graphs, tables, or other data displays	$\circ$	$\circ$	$\circ$	
)	Play games involving science concepts	$\circ$	$\circ$	$\circ$	
)	Conduct virtual experiments or other simulations	$\circ$	0	$\circ$	
<del>:</del> )	Read the textbook or watch instructional videos	0		0	$\circ$
́ . Но		you from incorp	Oorating digital de	○ evices into scier	nce
́ . Но	instructional videos  ow much do each of these keep	○ you from incorp		evices into scier	
́ . Но	instructional videos  ow much do each of these keep	you from incorp			
. Ho	instructional videos  ow much do each of these keep		Clic	k <b>one</b> circle for each	ı line.
́ . Но	instructional videos  ow much do each of these keep iction?  Not knowing how to use digital devices		Clic.	k <b>one</b> circle for each	ı line.
. Hostru	instructional videos  ow much do each of these keep action?  Not knowing how to use digital devices learning	to improve student	Not at all	k <b>one</b> circle for each	A lot

If a topic or concept was in the curriculum before fourth grade, choose "Mostly taught before this year". If you have taught a topic this year, choose "Mostly taught this year". If a topic is not in the fourth-grade curriculum for this year or you have not yet taught a topic, choose "Not yet taught".

A. L	ife Science	Mostly taught before this year	Mostly taught this year	Not yet taught
a)	Basic differences between living and nonliving things			
b)	Defining characteristics of major groups of living things			
c)	Functions of major structures in living things (e.g., roots in plants)			
d)	Life cycle stages of common plants and animals (e.g., flowering plants, frogs)	0		$\circ$
e)	Inherited characteristics of living things	$\circ$		
f)	How living things survive in their environments (e.g., physical characteristics, behaviors)	0		$\circ$
g)	How human actions impact the environment	$\circ$		
h)	Common ecosystems and their organisms (e.g., forest, desert)			
i)	Interpreting simple food chains			
j)	Competition within ecosystems			
k)	Ways for humans to maintain good health and avoid illness	$\circ$		$\circ$

Choose the response that best describes when each topic or concept is taught for students in this class.

If a topic or concept was in the curriculum before fourth grade, choose "Mostly taught before this year". If you have taught a topic this year, choose "Mostly taught this year". If a topic is not in the fourth-grade curriculum for this year or you have not yet taught a topic, choose "Not yet taught".

Click one circle for each line. Mostly taught Mostly before this taught Not yet **B. Physical Science** this year taught year a) Solids, liquids, gases, and how their shapes and volumes differ b) Grouping objects based on their physical properties c) Examples of mixtures and how they can be separated (e.g., filtration, evaporation) d) Magnetic attraction and repulsion Examples of physical and chemical changes in everyday life e)

•	continued) ose the response that best describes when each topion. 6.	c or concept is t	aught for stu	dents in this
year'	opic or concept was in the curriculum before fourth one of the concept was in the curriculum before fourth one of the concept was in the curriculum for this year or you have not yet the concept was a concept with the curriculum for this year or you have not yet the concept was a concept was a concept was a concept with the curriculum for this year or you have not yet.	taught this yea	r". If a topic	is not in the
		Click or	<b>ne</b> circle for each	line.
В. Р	hysical Science	Mostly taught before this year	Mostly taught this year	Not yet taught
g)	Concentration of solutions	$\circ$	$\circ$	$\circ$
h)	Sources of energy (e.g., the Sun, wind, water, coal, oil, and gas)	$\circ$	$\circ$	
i)	How light is related to shadows, reflections, and rainbows	$\circ$	$\circ$	0
j)	How vibrations are related to sound	$\circ$	$\circ$	0
k)	Movement of heat from hotter to cooler objects	$\circ$	$\circ$	0
I)	Simple electrical circuits	$\circ$	$\circ$	$\circ$
m)	How motion is affected by forces (e.g., gravity, pushing, pulling, friction)	0		
n)	Examples of simple machines (e.g., levers, ramps)			
Choc class If a to year'	continued) ose the response that best describes when each topic os. opic or concept was in the curriculum before fourth of '. If you have taught a topic this year, choose "Mostly h-grade curriculum for this year or you have not yet	rade, choose "l taught this yea aught a topic, c	Mostly taugh ar". If a topic choose "Not y	t before this is not in the yet taught".
		Click	one circle for ea	ch line.
C. E	arth Science	Mostly taught before this year	Mostly taught this year	Not yet taught
a)	Composition of Earth's surface (i.e., land, fresh water, salt water)	$\circ$	$\circ$	$\circ$
b)	Earth's resources and their use by humans	$\circ$	$\circ$	
c)	Renewable and nonrenewable resources			

How to make solids dissolve faster in liquids (e.g., stirring, heating)

f)

d)	How wind and water change Earth's surface over time		$\circ$		
e)	What fossils can show about Earth's history		$\circ$		
f)	How weather changes day to day and with geographic	location	$\circ$		
g)	Effects of increasing temperatures on Earth				
h)	Composition of the Solar System (the Sun, Earth, Moor planets)	n, and other	$\circ$		
i)	How the Moon's movement around the Earth changes appearance	its	$\circ$		
j)	How Earth's rotation causes day and night		$\circ$		
k)	How Earth's annual movement around the Sun causes seasonal change	seasons or	$\circ$		
	Science Homework for the TIMSS Class				
32. A	. How often do you usually assign science h	nomework to the	e students in	this class?	
Click o	ne circle only.				
	I do not assign science homework				
	Less than once a week				
	1 or 2 times a week				
	3 or 4 times a week				
	Every day				
32. B	. How often do you do the following with the	science home	work assignn	nents for this cl	ass?
		Click o	<b>one</b> circle for eac	h line.	
		Always or almost always	Sometimes	Never or almost never	
a)	Correct assignments and give feedback to students			$\circ$	
b)	Discuss the homework in class			$\circ$	
c)	Monitor whether or not the homework was completed	$\circ$		$\circ$	
	Science Assessment of the TIMSS Class				
22 LI					
scien	ow much importance do you place on these	strategies to a	ssess studen	ts' learning in	

		A lot	Some	None	
a)	Observing students as they work				
b)	Asking students to answer questions during cla	ass	$\circ$		
c)	Short, regular written assessments		$\circ$		
d)	Longer tests (e.g., unit tests or exams)		$\circ$		
e)	Long-term projects				
34. A	bout how often do fourth-grade stude	ents in this clas	ss take science	e tests on com	puters or
	one circle only.				
	More than once a month				
	Once a month				
	Twice a year				
	Once a year				
	Never				
		h Science			
35.	Professional Development to Teac	h Science			
35.	Professional Development to Teac	h Science  A. In the past two you particip professional dev any of the fol	ated in elopment in	B. Do you n professional de any of the f	evelopment in
35.	Professional Development to Teac	A. In the past two you particip professional dev	ated in elopment in llowing?	professional de	evelopment in following?
35.	Professional Development to Teac	A. In the past two you particip professional dev any of the fol	ated in elopment in llowing?	professional de any of the f	evelopment in following?
<b>35</b> .	Professional Development to Teac	A. In the past two you particip professional dev any of the fol  Click one circle for	eated in selopment	professional de any of the f	evelopment in following?
	Professional Development to Teac	A. In the past two you particip professional dev any of the fol	eated in selopment	professional de any of the f	evelopment in following?
a)	Professional Development to Teac	A. In the past two you particip professional dev any of the fol	eated in selopment	professional de any of the f	evelopment in following?
a) b)	Professional Development to Teac  Science content Science pedagogy/instruction	A. In the past two you particip professional dev any of the fol	eated in selopment	professional de any of the f	evelopment in following?
a) b) c)	Professional Development to Teac  Science content Science pedagogy/instruction Science curriculum Integrating technology into science	A. In the past two you particip professional dev any of the fol	eated in selopment	professional de any of the f	evelopment in following?
a) b) c) d)	Professional Development to Teac  Science content  Science pedagogy/instruction  Science curriculum  Integrating technology into science instruction  Improving students' critical thinking or	A. In the past two you particip professional dev any of the fol	eated in selopment	professional de any of the f	evelopment in following?

h)	Integrating science with other subjects (e.g., mathematics, technology)				
Thank	you for the thought, time, and effort you ha	ave put into com	oleting this quest	ionnaire.	
To sub	omit your completed questionnaire, please click	the "Finish" butto	n.		

### TIMSS 2023 - Grade 8 - Field Test - English (United States)

### Teacher Questionnaire Mathematics

### Teacher Questionnaire Mathematics

Your school has agreed to participate in TIMSS 2023 (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 almost 60 countries in order to help improve teaching and learning worldwide.

This questionnaire is addressed to teachers of eighth-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 secondary 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 with the login documentation, 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.

We appreciate the time and effort that this takes and thank you for your cooperation and contribution.

NCES is authorized to collect information from the questionnaire under the Education Sciences Reform Act of 2002 (ESRA 2002, 20 U.S.C. §9543). 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. All of the information you provide may be used only for statistical purposes and may not be disclosed, or used, in identifiable form for any other purpose except as required by law (20 U.S.C. §9573 and 6 U.S.C. §151). 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 35 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 burden to: Trends in International Mathematics and Science Study (TIMSS), National Center for Education Statistics, Potomac Center Plaza (PCP), 550 12th St., SW, 4th floor, Washington, DC 20202.

To begin the questionnaire, please click on the "Next" button. When navigating through the questionnaire, make sure to confirm your responses by clicking on the "Next" or "Back" button. To go to a particular section or item, please click on the corresponding link in the "Table of Contents".

When you have completed the questionnaire, please click on the "Finish" button at the end of the last question in order to submit your answers.

Thank you.

### **About You**

### 1. What year did you start teaching?

Please type in a year.

2. By t	he end of this school year, how many years will you have been teaching altogether?
	years
Please <b>r</b>	ound to the nearest whole number.
3. Which	ch of these describes you?
Click <b>on</b>	e circle only.
	Female
	Male
	Other
	Prefer not to say
4. How	old are you?
Click <b>on</b>	e circle only.
	Under 25
	25–29
	30–39
	40–49
	50–59
	60 or more
5. Wha	t is the <u>highest</u> level of formal education you have completed?
Click on	e circle only.
	Did not complete high school
	High school graduate
	(If you have not completed any college, you will be directed to #7)
	Associate's degree (2-year college program)
	Bachelor's degree (4-year college program)
	Master's degree or professional degree (MD, DDS, lawyer, minister)
	Doctorate (Ph.D., Ed.D.)
6. Duri	ng your college or university education, what was your <u>major or main</u> area(s) of study?

Click one circle for each line.

		Yes	No			
a)	Mathematics	$\circ$				
b)	Biology	$\bigcirc$				
c)	Physics	$\bigcirc$				
d)	Chemistry					
e)	Earth Science	$\circ$				
")	Education–Mathematics					
g)	Education–Science					
1)	Education–General					
)	Other	$\bigcirc$				
	School Emphasis on Acad	demic Succes	s			
. Ho	ow would you characterize ea	ach of the follo	wing within	your school?		
			Click	one circle for each	h line.	
		,				
		Very high	High	Medium	Low	Very low
a)	Teachers' understanding of the school's curricular goals	0			0	$\circ$
o)	Teachers' degree of success in implementing the school's curriculum	0				
<b>;</b> )	Teachers' expectations for student achievement	$\circ$				$\circ$
d)	Teachers' ability to inspire students	$\circ$				0
∍)	Parental involvement in school activities	$\circ$			0	$\circ$
")	Parental commitment to ensure that students are ready to learn	0			0	$\circ$
	ontinued) would you characterize each	n of the followi	ng within y	our school?		
			Click	one circle for eacl	h line.	
		Very high	High	Medium	Low	Very low

g)	Parental expectations for student achievement				
h)	Parental support for student achievement			0	0
i)	Students' desire to do well in school		0	0	0
j)	Students' ability to reach school's academic goals		0	0	0
k)	Students' respect for classmates who excel academically		$\circ$	$\circ$	
	School Environment				
. Нс	ow much do you agree or disagree w	ith the following	statements	about your cu	rrent school?
			Click <b>one</b> ci	rcle for each line.	
		Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	I feel safe at this school	$\circ$		$\circ$	$\circ$
b)	This school's security policies and practices are sufficient		0	0	0
c)	The students behave in an orderly manner	$\circ$		$\circ$	$\circ$
d)	The students are respectful of the teachers	$\circ$		$\circ$	$\circ$
e)	The students respect school property	0			
f)	This school has clear rules about student conduct				$\circ$
g)	This school's rules are enforced in a fair and consistent manner			0	$\circ$
	About Being a Teacher				
). Ho	ow often do you have these feelings	about being a te	acher?		
			Click <b>one</b> circ	le for each line.	
		Very often	Often	Sometimes	Never or almost never
a)	I am content with my profession as a teache			0	
b)	I find my work full of meaning and purpose	0		0	0
c)	I am enthusiastic about my job	4			

d)	My work inspires me				
e)	I am proud of the work I do				
f)	I feel appreciated as a teacher				
g)	I enjoy the challenges of teaching		$\circ$		
10. F	low much do you agree or disagree with	the stateme	nts below?		
			Click <b>one</b> circl	le for each line.	
		Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	There are too many students in the classes	$\circ$	$\circ$	$\circ$	
b)	I have too much material to cover in class	$\circ$	$\circ$	$\circ$	
c)	I have too many teaching hours	$\circ$	$\circ$	$\circ$	
d)	I need more time to prepare for class	$\circ$	$\circ$		
e)	I need more time to assist individual students			$\bigcirc$	
f)	I feel too much pressure from parents	$\circ$	$\circ$	$\circ$	
g)	I have difficulty keeping up with all of the changes to the curriculum	$\circ$		0	
h)	I have too many administrative tasks	$\circ$	$\circ$	$\circ$	
	About Teaching the TIMSS Class				
11. F	low many students are in this class?				
	students				
Туре	in the number.				
12. F	low many eighth-grade students experie	ence difficulti	es understand	ding <u>spoken</u> E	inglish?
	students in this class				
Tvpe	in the number.				
	low often do you do the following in tead	ching this cla	ss?		
			Click <b>one</b> c	ircle for each line.	
		Every or almost	About half the lessons	Some lessons	Never

		every lesson			
a)	Relate the lesson to students' daily lives				
b)	Ask students to explain their answers				
c)	Communicate goals or objectives for the lesson to the students		0		
d)	Ask students to complete challenging exercises that require them to go beyond the instruction	$\circ$	$\circ$		
e)	Encourage classroom discussions among students		$\bigcirc$		
f)	Link new content to students' prior knowledge		$\circ$		
g)	Ask students to decide their own problem solving procedures		0		$\circ$
h)	Encourage students to express their ideas in class		$\circ$		
			Not at all	ne circle for each	A lot
			Not at all	Some	A lot
a)	Students lacking prerequisite knowledge or skills		$\circ$		
b)	Students suffering from lack of basic nutrition		$\circ$		
c)	Students suffering from not enough sleep		$\circ$	$\circ$	
d)	Students absent from class		$\bigcirc$		
e)	Disruptive students		$\circ$		
f)	Uninterested students		$\bigcirc$		
g)	Distracted students				
h)	Students with mental, emotional, or psychological impa	irment			
i)	Students with difficulties understanding the language of instruction	f	0		$\circ$
	Teaching Mathematics to the TIMSS Clas	s			
5. Ir Iass	n a typical week, how much time do you spers?	nd teach	ing mathematio	s to the stud	ents in this
	minutes per week				

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

		Click <b>one</b> circle for each line.			
		Every or almost every lesson	About half the lessons	Some lessons	Never
a)	Listen to me explain new mathematics content			$\circ$	
b)	Listen to me explain how to solve problems			$\circ$	
c)	Memorize rules, procedures, and facts			$\bigcirc$	
d)	Practice procedures on their own			$\bigcirc$	
e)	Apply what they have learned to new problem situations on their own	0	0	0	$\circ$
f)	Work problems together in the whole class with direct guidance from me	$\circ$		$\circ$	
g)	Work in mixed ability groups		$\circ$	$\circ$	$\circ$
h)	Work in same ability groups				
	Which best describes the mathematics co ents?	urse you ar	e teaching to th	ne class with	the TIMSS
Click (	one circle only.				
	Basic or general eighth-grade math (not algebra	or pre-algebra)			
	Pre-algebra or introduction to algebra				
	Two-year pre-algebra				
	Algebra I (one-year course)				
	Algebra I (first year of a two-year Algebra I course	e)			
	Algebra I (second year of two-year Algebra I coul	rse)			
	Geometry				
	Algebra II				
	Integrated or sequential math				
	Other math class				

# Using Calculators and Digital Devices for Teaching Mathematics to the TIMSS Class

18. A	e students in this class permitted to	use calculate	ors during matl	nematics lesso	ns?
Click o	ne circle only.				
	Yes, with unrestricted use				
	Yes, with restricted use				
	No				
	Do the students in this class have or phones) available to use during ma	•	•	nputers, tablets	s, or
Click o	<b>ne</b> circle only.				
	Yes				
	No				
19. B.	What access do the students have	to digital devi	ces?		
			Click <b>one</b> cir	cle for each line.	
			Yes	No	
a)	The class has digital devices for each studen	t to use		$\circ$	
b)	The class has digital devices that students ca	nn share		$\circ$	
c)	The school has digital devices that the class	can use sometime	es		
d)	Students bring their own digital devices			$\circ$	
C. Ho	w often do you have students use d	igital devices	during mathem	natics instruction	on?
Click o	ne circle only.				
	At least once a week				
	Once or twice a month				
	A few times a year				
	Never or almost never				
	How often do you ask the students ematics activities?	in your class	to use digital d	levices to do th	ese
		,	Click <b>one</b> circle	e for each line.	
		At least once	Once or twice	A few times	Never or

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		a week	a month	a year	almost never
a)	Practice problems and procedures	$\circ$	$\circ$	$\circ$	$\circ$
b)	Solve extended or contextualized problems				$\circ$
c)	Create graphs, tables, or other data displays				$\circ$
d)	Play games involving mathematics calculations or concepts				$\circ$
e)	Read the textbook or watch instructional videos			0	0
	low much do each of these keep you uction?	from incorporati	ng digital de	vices into ma	thematics
			Click	one circle for ea	och line.
			Not at all	Somewhat	A lot
a)	Not knowing how to use digital devices to implearning	prove student		$\circ$	0
b)	Not enough access to digital devices			$\circ$	0
c)	Keeping students on task when the class is using digital devices			$\circ$	
d)	Lack of technical support from the school			$\circ$	
	Mathematics Topics Taught to the	TIMSS Class			
	he following list includes topics additions that best describes when each to the second second to the second secon	•			oose the
you l	opic was in the curriculum before eig have taught a topic this year, choose e curriculum for this year or you have	"Mostly taught t	his year". If a	a topic is not	in the eighth-
				Click <b>one</b> circle fo	r each line.
A. N	lumber		Most taugl before yea	ht Mostly this taugh	t Not yet
a)	Add and subtract positive and negative numb	pers		$\circ$	
b)	Find and use factors, multiples, positive power positive whole numbers	ers, or square roots of	0	0	
c)	Compare fractions and decimals			$\circ$	0

∍)	Divide fractions and decimals by a whole number			$\circ$
	Determine proportions and ratios		$\circ$	
)	Find percentages and convert between percentages and fractions/decimals	0	0	0
		Click or	ne circle for eac	ch line.
. A	Algebra	Mostly taught before this year	Mostly taught this year	Not yet taught
)	Simplify and compare algebraic expressions			
	Solve simple linear equations	$\circ$	$\circ$	
	Solve simple linear inequalities	$\circ$		
	Solve simultaneous linear equations (two variables)	$\circ$		
	Write expressions, equations, or inequalities to represent problems	$\circ$		
	Interpret linear functions in graphs, tables, or words	$\circ$		
	Interpret simple non-linear functions (e.g., quadratic, cubic) in graphs, tables, or words	0	0	0
	Generalize linear and non-linear pattern relationships or sequences			
ı te	ose the response that best describes when each topic is to opic was in the curriculum before eighth grade, choose "Nave taught a topic this year, choose "Mostly taught this ye curriculum for this year or you have not yet taught a top	Mostly taught rear". If a top iic, choose "I	before this	year". If the eighth ht".
:. G	Seometry and Measurement	Most taugl befor this ye	nt taught e this	
)	Read and plot points in the Cartesian plane			
)	Recognize and draw different types of angles and lines	$\circ$	$\circ$	
	Use geometric properties of polygons to calculate lengths, perimeter, and area (including the Pythagorean Theorem)	d		
	50			

Add, subtract, and multiply with fractions and decimals

d)

d)	Determine the results of geometric translation, reflection, and rotation			
e)	Use properties of similar and congruent figures		0	) (
f)	Calculate surface area and volume of common three-dimensional	l shapes	0	
		Click o	<b>one</b> circle for each	ı line.
D. D	ata and Probability	Mostly taught before this year	Mostly taught this year	Not yet taught
a)	Interpret data from one or more data sources			$\circ$
b)	Represent data in graphs, charts, or plots			$\circ$
c)	Calculate and interpret the mean or median of a data distribution			
d)	Calculate probabilities of simple and compound events			
	Mathematics Homework for the TIMSS Class			
22. A	. How often do you usually assign mathematics hor	nework to the	students in th	is class?
Click c	one circle only.			
	I do not assign mathematics homework			
	Less than once a week			
	1 or 2 times a week			
	3 or 4 times a week			
	Every day			
22. B class	. How often do you do the following with the mathers?	matics homewo	ork assignme	nts for this
		Click	one circle for eac	ch line.
		Always or almost always	Sometimes	Never or almost neve
a)	Correct assignments and give feedback to students		$\bigcirc$	
b)	Have students correct their own homework	$\circ$	$\circ$	
c)	Discuss the homework in class		$\circ$	
d)	Monitor whether or not the homework was completed			

e)	marks	ents grades or		O	0
	Mathematics Assessment of the T	IMSS Class			
	low much importance do you place o nematics?	n these strateo	gies to assess	students' learn	ing in
			Click <b>one</b> circle for	each line.	_
		A lot	Some	None	
a)	Observing students as they work	$\circ$			
b)	Asking students to answer questions during c	lass			
c)	Short, regular written assessments				
d)	Longer tests (e.g., unit tests or exams)				
e)	Long-term projects				
	About how often do eighth-grade stud blets?	ents in this cla	ass take mathe	ematics tests or	ı computers
	one circle only.				
	More than once a month				
	Once a month				
	Twice a year				
	Once a year				
	Never				
	Professional Development to Teac	ch Mathematic	:S		
25.					
		A. In the past tw you partici professional de any of the fo	pated in velopment in	B. Do you r professional d any of the	evelopment in
		Click one circle	for each line.	Click <b>one</b> circle	e for each line.
		Yes	No	Yes	No
a)	Mathematics content	$\circ$			
b)	Mathematics pedagogy/instruction				
c)	Mathematics curriculum	52			
		.1/			

d)	Integrating technology into mathematics instruction				
e)	Improving students' critical thinking or problem solving skills	0	$\circ$	0	$\circ$
f)	Mathematics assessment	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
g)	Addressing individual students' needs		$\circ$		
Thank you for the thought, time, and effort you have put into completing this questionnaire.					
To submit your completed questionnaire, please click the "Finish" button.					

### TIMSS 2023 - Grade 8 - Field Test - English (United States)

# Teacher Questionnaire Science

# Teacher Questionnaire Science

Your school has agreed to participate in TIMSS 2023 (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 almost 60 countries in order to help improve teaching and learning worldwide.

This questionnaire is addressed to teachers of eighth-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 secondary 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 with the login documentation, 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.

We appreciate the time and effort that this takes and thank you for your cooperation and contribution.

NCES is authorized to collect information from the questionnaire under the Education Sciences Reform Act of 2002 (ESRA 2002, 20 U.S.C. §9543). 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. All of the information you provide may be used only for statistical purposes and may not be disclosed, or used, in identifiable form for any other purpose except as required by law (20 U.S.C. §9573 and 6 U.S.C. §151). 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 35 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 burden to: Trends in International Mathematics and Science Study (TIMSS), National Center for Education Statistics, Potomac Center Plaza (PCP), 550 12th St., SW, 4th floor, Washington, DC 20202.

To begin the questionnaire, please click on the "Next" button. When navigating through the questionnaire, make sure to confirm your responses by clicking on the "Next" or "Back" button. To go to a particular section or item, please click on the corresponding link in the "Table of Contents".

When you have completed the questionnaire, please click on the "Finish" button at the end of the last question in order to submit your answers.

Thank you.

### **About You**

### 1. What year did you start teaching?

Please type in a year.

2. By (	years			
Please i	round to the nearest whole number.			
3. Whi	ch of these describes you?			
Click on	e circle only.			
	Female			
	Male			
	Other			
	Prefer not to say			
4. How	v old are you?			
Click on	e circle only.			
	Under 25			
	25–29			
	30–39			
	40–49			
	50–59			
	60 or more			
5. Wha	at is the <u>highest</u> level of formal education you have completed?			
Click on	ne circle only.			
	Did not complete high school			
	High school graduate			
	(If you have not completed any college, you will be directed to #7)			
	Associate's degree (2-year college program)			
	Bachelor's degree (4-year college program)			
	Master's degree or professional degree (MD, DDS, lawyer, minister)			
	Doctorate (Ph.D., Ed.D.)			
6. During your college or university education, what was your major or main area(s) of study?				
	Click <b>one</b> circle for each line.			

		Yes	No			
a)	Mathematics	$\circ$				
b)	Biology	$\bigcirc$				
c)	Physics	$\bigcirc$				
d)	Chemistry	$\circ$				
e)	Earth Science	$\circ$				
F)	Education–Mathematics					
g)	Education–Science					
า)	Education–General					
)	Other	$\bigcirc$				
	School Emphasis on Acad	demic Succes	s			
. Ho	ow would you characterize ea	ach of the follo	wing within	your school?		
			Click	one circle for each	h line.	
		,				
		Very high	High	Medium	Low	Very low
a)	Teachers' understanding of the school's curricular goals	0	0		0	0
b)	Teachers' degree of success in implementing the school's curriculum	0				
c)	Teachers' expectations for student achievement	$\circ$				$\circ$
d)	Teachers' ability to inspire students	$\circ$				$\circ$
∍)	Parental involvement in school activities	$\circ$			0	$\circ$
·)	Parental commitment to ensure that students are ready to learn	0			0	$\circ$
	ontinued) would you characterize each	n of the followi	ng within y	our school?		
			Click	one circle for each	h line.	
		Very high	High	Medium	Low	Very low

g)	Parental expectations for student achievement		0		0		
h)	Parental support for student achievement			0	0		
i)	Students' desire to do well in school			0	0		
j)	Students' ability to reach school's academic goals		0	0	0		
k)	Students' respect for classmates who excel academically		0	$\circ$	$\circ$		
	School Environment						
8. Hc	ow much do you agree or disagree w	vith the following	statements	about your cu	rrent school?		
			Click <b>one</b> ci	rcle for each line.			
		Agree a lot	Agree a little	Disagree a little	Disagree a lot		
a)	I feel safe at this school	$\circ$			$\circ$		
b)	This school's security policies and practices are sufficient	0	0	0	0		
c)	The students behave in an orderly manner	0			$\circ$		
d)	The students are respectful of the teachers	$\circ$			$\circ$		
e)	The students respect school property	$\circ$			$\circ$		
f)	This school has clear rules about student conduct	$\circ$			0		
g)	This school's rules are enforced in a fair and consistent manner			$\circ$	0		
	About Being a Teacher						
9. Ho	ow often do you have these feelings	about being a te	acher?				
			Click one circle for each line.				
		Very often	Often	Sometimes	Never or almost never		
a)	I am content with my profession as a teache	er 🔘		0	0		
b)	I find my work full of meaning and purpose						
c)	I am enthusiastic about my job	57	$\circ$				

d)	My work inspires me		$\bigcirc$		
e)	I am proud of the work I do		$\bigcirc$		
f)	I feel appreciated as a teacher				
g)	I enjoy the challenges of teaching				
0. F	low much do you agree or disagree with	the statements	below?		
			Click <b>one</b> circ	ele for each line.	
		Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	There are too many students in the classes			$\bigcirc$	$\circ$
o)	I have too much material to cover in class			$\circ$	
c)	I have too many teaching hours	0		$\circ$	
d)	I need more time to prepare for class	0			
e)	I need more time to assist individual students				
·)	I feel too much pressure from parents	0			$\circ$
g)	I have difficulty keeping up with all of the changes to the curriculum	$\circ$		$\circ$	$\circ$
h)	I have too many administrative tasks	0	$\circ$		
	About Teaching the TIMSS Class				
l. H	low many students are in this class?				
	students				
/pe i	in the number.				
2. F	low many eighth-grade students experie	ence difficulties (	understan	ding <u>spoken</u> E	nglish?
	students in this class				
/pe	in the number.				
	low often do you do the following in teac	ching this class?	>		
	<u>.</u>	•		airala far aaab lir-	
		-	CIICK ONE	circle for each line.	
		Every or almost every lesson	About h		Never

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a)	Relate the lesson to students' daily lives				$\circ$
b)	Ask students to explain their answers	$\bigcirc$	$\circ$		
c)	Communicate goals or objectives for the lesson to the students	0	0	0	
d)	Ask students to complete challenging exercises that require them to go beyond the instruction	0	0	$\circ$	
e)	Encourage classroom discussions among students				$\circ$
f)	Link new content to students' prior knowledge	$\bigcirc$	$\circ$		
g)	Ask students to decide their own problem solving procedures	0	0	0	
h)	Encourage students to express their ideas in class				
14. Ir	n your view, to what extent do the following li	mit how	you teach this	class?	
			Click one circle for each line.		
			Not at all	Some	A lot
a)	Students lacking prerequisite knowledge or skills			$\circ$	
b)	Students suffering from lack of basic nutrition				
c)	Students suffering from not enough sleep			$\bigcirc$	
d)	Students absent from class			$\circ$	
e)	Disruptive students				
f)	Uninterested students			$\bigcirc$	
g)	Distracted students			$\bigcirc$	
h)	Students with mental, emotional, or psychological impair	rment		$\circ$	
i)	Students with difficulties understanding the language of instruction		0	0	
	Teaching Science to the TIMSS Class				
15. In a typical week, how much time do you spend teaching science to the students in this class?					
	minutes per week				
Type in the number of minutes per week. Please convert the number of hours into minutes.					
16. In teaching science to the students in this class, how often do you ask them to do the					

following?

( 'llok or	an airai	e for eac	ah lina

		Every or almost every lesson	About half the lessons	Some lessons	Never
a)	Listen to me explain new science content		$\circ$	$\circ$	
b)	Observe natural phenomena and describe what they see	$\circ$	$\circ$	$\bigcirc$	
c)	Watch me demonstrate an experiment or investigation	0	0	0	0
d)	Read their textbooks or other resource materials	0	0	0	0
e)	Memorize facts and principles		$\circ$	$\circ$	
f)	Use scientific formulas and laws to solve routine problems	0	$\circ$	$\circ$	0
g)	Do field work outside of class		$\circ$	$\circ$	$\bigcirc$
h)	Work in mixed ability groups		$\circ$	$\circ$	
i) <b>17. W</b>	Work in same ability groups  Which best describes the science cour	se vou are tead	hing to the cla	○ ss with the T	O IMSS
	ents?	•	•		
Click o	one circle only.				
	General science (several content areas of sc	ience taught separa	ately)		
	Integrated science (several content areas of	science combined a	and taught togethe	r throughout the y	rear)
	Life science (e.g., biology, ecosystems, huma	an health)			
	Physical science (e.g., physics or chemistry)				
	Earth science (e.g., geology, Earth and the se	olar system, fossils)	1		
18. H class	low much emphasis do you place on t s?	he following wl	nen teaching s	cience to stud	dents in t
			Click o	one circle for eacl	h line.
			A lot	Some	None
a)	Encouraging students to ask questions about s phenomena	scientific	$\circ$	$\bigcirc$	0
b)	Having students predict the outcomes of exper	iments or	$\circ$	$\circ$	$\circ$

	investigations				
c)	Having students discuss variation in data from experinvestigations	eriments or		0	0
d)	Having students use multiple sources of evidence to scientific phenomena	o explain	0		$\circ$
e)	Having students create representations (e.g., mode to explain scientific phenomena	els, graphs)	$\circ$	$\circ$	$\circ$
f)	Having students use scientific concepts to explain p	ohenomena		$\circ$	
g)	Having students argue about science questions			$\circ$	
19. A class	. How often do you provide opportunities ?	for studen		following when to	eaching this
		Once a week or more	Once or twice a month	Once or twice every few months	Never or almost never
a)	Experiments or investigations that are carried out in a single lesson	$\circ$	$\circ$		
b)	Experiments or investigations that are carried out over a series of lessons	$\circ$	0		
c)	Hands-on activities to explore science concepts		$\bigcirc$		$\bigcirc$
d)	Experiments with a prescribed set of steps to answer a given question	$\circ$			
e)	Experiments where students determine their own procedures to answer a given question	$\circ$	0		
	. How often do you go to a separate scier tigations with students in this class?	nce laborato	ory when co	nducting experim	ents or
Click c	ne circle only.				
	Always or almost always				
	Sometimes				
	Never or almost never				
	Using Digital Devices for Teaching Sci	ience to the	e TIMSS Cla	ss	
00 4	De the etcalente in this class have distin				

20. A. Do the students in this class have digital devices (including computers, tablets, or smartphones) available to use during science lessons?

Click one circle only.

	Yes				
	No				
20. B	. What access do the students	have to digital o	levices?		
			Click <b>one</b>	circle for each line	). —
			Yes	No	
a)	The class has digital devices for each	student to use	$\circ$	$\circ$	
b)	The class has digital devices that stud	lents can share	$\circ$		
c)	The school has digital devices that the	e class can use some	etimes		
d)	Students bring their own digital device	es	$\circ$		
C. Ho	ow often do you have students	use digital devi	ces during scien	ce instruction?	?
Click <b>c</b>	one circle only.				
	At least once a week				
	Once or twice a month				
	A few times a year				
	A few times a year  Never or almost never				
		dents in your cla	ass to use digita	l devices to do	these science
	Never or almost never  . How often do you ask the stu	dents in your cla	ass to use digita Click one circle		these science
	Never or almost never  . How often do you ask the stu		Click <b>one</b> circle	e for each line.	
	Never or almost never  . How often do you ask the stu	dents in your cla			Never or almost
	Never or almost never  . How often do you ask the stu	At least once a	Click one circle	e for each line.  A few times a	Never or almost
activ	Never or almost never  . How often do you ask the studities?  Solve extended or contextualized	At least once a	Click one circle	e for each line.  A few times a	Never or almost never
activ a)	Never or almost never  How often do you ask the studities?  Solve extended or contextualized problems  Create graphs, tables, or other data	At least once a	Click one circle	e for each line.  A few times a	Never or almost never
a) b)	Never or almost never  How often do you ask the studities?  Solve extended or contextualized problems  Create graphs, tables, or other data displays  Play games involving science	At least once a	Click one circle	e for each line.  A few times a	Never or almost never

# 21. How much do each of these keep you from incorporating digital devices into science instruction?

		Click	one circle for each	line.	
		Not at all	Somewhat	A lot	
a)	Not knowing how to use digital devices to improve student learning	$\circ$	$\circ$	$\circ$	
b)	Not enough access to digital devices	$\circ$	$\bigcirc$		
c)	Keeping students on task when the class is using digital devices	$\circ$	$\circ$		
d)	Lack of technical support from the school	$\circ$	$\circ$	$\circ$	

### **Science Topics Taught to the TIMSS Class**

22. The following list includes topics and concepts addressed by the TIMSS science test. Choose the response that best describes when each topic or concept is taught for students in this class.

If a topic or concept was in the curriculum before eighth grade, choose "Mostly taught before this year". If you have taught a topic this year, choose "Mostly taught this year". If a topic is not in the eighth-grade curriculum for this year or you have not yet taught a topic, choose "Not yet taught".

Click one circle for each line. Mostly taught before this Mostly taught Not yet A. Biology this year taught year a) Defining characteristics of major taxonomic groups of organisms b) Structures and functions of major organs and organ systems How animals maintain stable body conditions c) d) Major structures and functions in plant and animal cells Basic processes of photosynthesis e) Basic processes of cellular respiration f) Life cycles of mammals, birds, amphibians, insects, and plants g) h) Processes for reproduction and inheritance in plants and animals i) How variation in traits relates to natural selection and changes in life on Earth over time j) Interpreting food web diagrams and the flow of energy in ecosystems

k)	Cycling of water, oxygen, and carbon through ecosystems			
I)	Predation, competition, and symbiosis in ecosystems		$\circ$	
m)	How changes in an ecosystem affect the populations of organisms that live there	$\circ$	$\circ$	
n)	How human actions can positively or negatively impact the environment	$\circ$	$\bigcirc$	
o)	How to prevent transmission of common diseases among humans	$\bigcirc$	$\circ$	
p)	Importance of diet, exercise, and lifestyle choices for maintaining good human health	0	$\circ$	
Choo class	continued) ose the response that best describes when each topic of s. opic or concept was in the curriculum before eighth gra '. If you have taught a topic this year, choose "Mostly to ch-grade curriculum for this year or you have not yet ta	ade, choose "Naught this yea	flostly taught	t before this
		Click <b>o</b>	<b>ne</b> circle for eac	h line.
B. C	hemistry	Mostly taught before this year	Mostly taught this year	Not yet taught
<b>B. C</b>	hemistry  Structure of atoms (i.e., protons, neutrons, electrons) and molecules	taught before this	taught	•
	Structure of atoms (i.e., protons, neutrons, electrons) and	taught before this	taught	•
a)	Structure of atoms (i.e., protons, neutrons, electrons) and molecules	taught before this	taught	•
a) b)	Structure of atoms (i.e., protons, neutrons, electrons) and molecules  Differences among elements, compounds, and mixtures	taught before this	taught	•
a) b) c)	Structure of atoms (i.e., protons, neutrons, electrons) and molecules  Differences among elements, compounds, and mixtures  How to interpret the periodic table of elements	taught before this	taught	•
<ul><li>a)</li><li>b)</li><li>c)</li><li>d)</li></ul>	Structure of atoms (i.e., protons, neutrons, electrons) and molecules  Differences among elements, compounds, and mixtures  How to interpret the periodic table of elements  Classifying matter according to physical and chemical properties	taught before this	taught	•
<ul><li>a)</li><li>b)</li><li>c)</li><li>d)</li><li>e)</li></ul>	Structure of atoms (i.e., protons, neutrons, electrons) and molecules  Differences among elements, compounds, and mixtures  How to interpret the periodic table of elements  Classifying matter according to physical and chemical properties  Methods for separating mixtures	taught before this	taught	•
<ul><li>a)</li><li>b)</li><li>c)</li><li>d)</li><li>e)</li><li>f)</li></ul>	Structure of atoms (i.e., protons, neutrons, electrons) and molecules  Differences among elements, compounds, and mixtures  How to interpret the periodic table of elements  Classifying matter according to physical and chemical properties  Methods for separating mixtures  Solution concentration and rate of dissolving	taught before this	taught	•
<ul><li>a)</li><li>b)</li><li>c)</li><li>d)</li><li>e)</li><li>f)</li><li>g)</li></ul>	Structure of atoms (i.e., protons, neutrons, electrons) and molecules  Differences among elements, compounds, and mixtures  How to interpret the periodic table of elements  Classifying matter according to physical and chemical properties  Methods for separating mixtures  Solution concentration and rate of dissolving  Properties of acids and bases  Matter and energy in chemical reactions, including evidence of	taught before this	taught	•
<ul><li>a)</li><li>b)</li><li>c)</li><li>d)</li><li>e)</li><li>f)</li><li>g)</li><li>h)</li></ul>	Structure of atoms (i.e., protons, neutrons, electrons) and molecules  Differences among elements, compounds, and mixtures  How to interpret the periodic table of elements  Classifying matter according to physical and chemical properties  Methods for separating mixtures  Solution concentration and rate of dissolving  Properties of acids and bases  Matter and energy in chemical reactions, including evidence of chemical change	taught before this	taught	•

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class.

If a topic or concept was in the curriculum before eighth grade, choose "Mostly taught before this year". If you have taught a topic this year, choose "Mostly taught this year". If a topic is not in the eighth-grade curriculum for this year or you have not yet taught a topic, choose "Not yet taught".

		Click one circle for each line		ch line.
C. P	hysics	Mostly taught before this year	Mostly taught this year	Not yet taught
a)	Separation and motion of atoms/molecules in solids, liquids, and gases			
b)	Characteristics of matter and energy during state changes			
c)	Types of energy (e.g., kinetic, potential, thermal) and examples of energy transformations			$\circ$
d)	Thermal conductivity and the transfer of thermal energy between objects of different temperatures			$\circ$
e)	Reflection, refraction, or absorption of light			
f)	Characteristics of sound (i.e., amplitude, frequency) and its transmission, reflection, and absorption			$\circ$
g)	Electrical conductors and simple electrical circuits	$\bigcirc$		
h)	Polarity, strength, and uses of permanent magnets and electromagnets	$\circ$		
i)	Speed as distance changing over time	$\circ$		
j)	Acceleration as speed changing over time	$\circ$		
k)	Effects of common forces on speed and direction of motion	$\circ$		
I)	Density and buoyancy			
m)	Functioning of simple machines (e.g., levers, inclined planes, pulleys)			
	continued) ose the response that best describes when each topic or co s.	ncept is taug	jht for stud	ents in this
year'	opic or concept was in the curriculum before eighth grade, on the curriculum before eighth grade, on the curriculum for this year, choose "Mostly taught the curriculum for this year or you have not yet taught	t this year".	If a topic is	not in the
		Click	one circle for e	each line.
D. E	arth Science	Mostly taught	Mostly taught	Not yet taught

			fore year	this year	
a)	Earth's structure and distribution of water on its surface	(			
b)	Gases present in Earth's atmosphere and their relative abundance	(			
c)	Changes in temperature and pressure based on altitude	(		$\bigcirc$	$\bigcirc$
d)	How geological events impact Earth's surface	(		$\bigcirc$	$\bigcirc$
e)	Processes in the rock cycle (e.g., lava cooling, weathering)	(		$\circ$	$\bigcirc$
f)	How fossils form and what they show about Earth's history	(		$\circ$	$\bigcirc$
g)	Processes in Earth's water cycle	(		$\bigcirc$	$\bigcirc$
h)	Differences between weather and climate and geographic factors a climate	ffecting			
i)	Evidence for climate change	(			
j)	Use and conservation of Earth's resources, including land, water, a renewable and nonrenewable energy sources	nd (			
k)	Phenomena caused by the motion of Earth and the Moon (e.g., sea tides, Moon phases)	sons,			
I)	The Sun as a star and physical features of the Earth, Moon, and oth planets	ner (			$\circ$
	Science Homework for the TIMSS Class				
23. A	. How often do you usually assign science homework	to the student	s in this	class?	
Click o	ne circle only.				
	I do not assign science homework				
	Less than once a week				
	1 or 2 times a week				
	3 or 4 times a week				
	Every day				
23. B	. How often do you do the following with the science	homework ass	ignments	for this	class?
		Click <b>on</b>	<b>e</b> circle for	each line.	
		Always or almost always	Sometime	_	ver or st never
a)	Correct assignments and give feedback to students	0			0

b)	Have students correct their own homework				
c)	Discuss the homework in class		$\circ$	$\circ$	$\circ$
d)	Monitor whether or not the homework was com	pleted		$\circ$	$\circ$
e)	Use the homework to contribute towards studer marks	nts' grades or		0	
	Science Assessment of the TIMSS	Class			
24. H scier	low much importance do you place on nce?	these strate	gies to assess	students' learn	ing in
			Click <b>one</b> circle for	each line.	-
		A lot	Some	None	
a)	Observing students as they work		0		
b)	Asking students to answer questions during cla	ss			
c)	Short, regular written assessments				
d)	Longer tests (e.g., unit tests or exams)				
e)	Long-term projects				
25. A table	bout how often do eighth-grade stude	nts in this c	ass take sciend	ce tests on com	puters or
Click c	one circle only.				
	More than once a month				
	Once a month				
	Twice a year				
	Once a year				
	Never				
	Professional Development to Teach	Science			
26.					
		A. In the past to you partion professional d any of the	evelopment in	B. Do you n professional do any of the f	evelopment in
		Click <b>one</b> circle	e for each line.	Click <b>one</b> circle	for each line.
		Yes	No	Yes	No

a)	Science content	$\circ$	$\bigcirc$	$\circ$	
b)	Science pedagogy/instruction	$\circ$		$\circ$	0
c)	Science curriculum	$\circ$	$\circ$	$\circ$	$\circ$
d)	Integrating technology into science instruction	$\circ$		$\circ$	
e)	Improving students' critical thinking or inquiry skills	$\circ$		$\circ$	
f)	Science assessment	$\circ$	$\circ$	$\circ$	$\circ$
g)	Addressing individual students' needs				
Thank	you for the thought, time, and effort you ha	ave put into comp	leting this questi	onnaire.	
To sub	mit your completed questionnaire, please click	the "Finish" buttor	٦.		

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# Welcome to the IEA TIMSS 2023 SurveySystem

### Online Questionnaires Grade 4



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### Student Questionnaire - Grade 4

**Directions** 

In this questionnaire, you will find questions about you and what you think. For each question, you should choose the answer you think is best.

Let us take a few minutes to practice the kinds of questions you will answer in this questionnaire.

# **Examples**

# **Example 1**

Example 1 is one kind of question you will find in this questionnaire.

# Do you go to school?

Click one circle only.

- Yes
- No

### Example 2

Example 2 is another kind of question you will find in this questionnaire.

## How often do you do these things?

Click one circle for each line. Every day Once or Once or **Never or** or almost twice a twice a almost month every day week never I talk with my friends a) I play sports b) I ride a skateboard

# Example 3

Example 3 is another kind of question you will find in this questionnaire.

What do you think? Tell how much you agree with these statements.

Click one circle for each line.

		Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	Watching movies is fun	$\circ$		$\circ$	
b)	Ice cream tastes good		$\circ$	$\circ$	
c)	Waking up early is difficult		$\circ$	$\circ$	
d)	I enjoy doing chores		$\circ$	$\circ$	
• Rea	nd each question carefully, and p	pick the ans	swer you think	is best.	
• Clic	k the circle next to or under you	ır answer.			
• Ask	for help if you do not understar	nd somethin	g or are not su	ure how to ansv	ver.
• You	may change your answers at a	any time bef	ore submitting	the questionna	ire.
		About `	You		
1. A	. Which of these describe	es you?			
Click	one circle only.				
	Girl				
	Boy				
	Other				
	Prefer not to say				
1. B	. Are you Hispanic or Lat	tino?			
Click	one circle only.				
	Yes, I am Hispanic or Latino				
	No, I am not Hispanic or Lati	no			
1. C	. Which of the following	best desc	cribes you?	•	
Chec	k <b>all</b> that apply.				
	American Indian or Alaska N	ative			
	Asian				

	Black or African American
	Native Hawaiian or other Pacific Islander
	White
2. Wh	nen were you born?
a) Mo	onth
Click ti	he circle next to the month you were born.
	January
	February
	March
	April
	May
$\bigcirc$	June
	July
	August
	September
	October
	November
	December
2. Wr	nen were you born?
b) Ye	ar
Click ti	he circle next to the year you were born.
	2010
	2011
	2012
	2013

	2015
	2016
	Other
3. A.	How often do you speak English at home?
Click c	one circle only.
$\circ$	I always speak English at home
	I almost always speak English at home
	I sometimes speak English and sometimes speak another language at home
	I never speak English at home
3. B.	What language do you speak at home (other than English)?
Check	all that apply.
	Spanish
	Other (please specify)
	out how many books are there in your home? (Do not count magazines, spapers, or your school books.)
Click c	one circle only.
	None or very few (0–10 books) This shows 10 books
	Enough to fill one shelf (11–25 books) This shows 25 books
	Enough to fill one bookcase (26–100 books) This shows 100 books

Enough to fill two bookcases (101–200 books) This shows 200 books

<u>Andandandan</u>	

Enough to fill three or more bookcases (more than 200)
 This shows more than 200 books

kantantantaka kantantantan kantantanta kantantantaka kantantantan kantantanta kantantantanta kantantantanta

### 5. Do you have any of these things at your home?

		lin		
		Yes	No	
a)	Your own computer or tablet		$\circ$	
b)	A shared computer or tablet you can use		$\circ$	
c)	Your own smartphone		$\circ$	
d)	A shared smartphone you can use		$\circ$	
e)	Access to the internet		$\circ$	
f)	Study desk/table for your use			
g)	Your own room		$\circ$	
h)	A gaming system (e.g., PlayStation, Nintendo Switch, Xbox)	0		

# 6. How many of the following devices are currently used in your home?

Click **one** circle for each line.

		None	One	Two	Three or more
a)	Desktop or laptop computers	$\circ$			
b)	Tablet devices (e.g., iPad, Surface Pro, Kindle)	0		$\circ$	

### 7. Were your parents/guardians born in the United States?

This question is about your Parent/Guardian A and Parent/Guardian B. If you have only one parent/guardian, answer for Parent/Guardian A. If you have two parents/guardians, choose one for Parent/Guardian A and the other for Parent/Guardian B. A. Parent/Guardian A Click one circle only. Yes No I don't know Not applicable B. Parent/Guardian B Click one circle only. Yes No I don't know Not applicable 8. Were you born in the United States? Click one circle only. Yes No 9. About how often are you absent from school? Click one circle only. Once a week Once every two weeks Once a month

#### 10. Have you ever repeated a grade in elementary school?

Once every two months

Never or almost never

Click	one circle only.					
	Yes					
	No					
11. I	How often do you feel	this way w	hen you ar	rive at	school?	
			Click <b>one</b>	circle fo	r each line.	
		Every day	Almost eve	ery day	Sometimes	Never
a)	I feel tired		0		$\circ$	$\circ$
b)	I feel hungry	$\circ$				
12. I	How much do you agr	ee with the	se stateme	ents?		
		-	Ci	lick <b>one</b>	circle for each lir	1e.
			Agree a lot	Agree a little		Disagree a lot
a)	I can write and edit text on computer, tablet, or smartp		0	0	0	
b)	I can create school present using a computer, tablet, of smartphone					
c)	I can create tables, charts, graphs using a computer, smartphone			0		
d)	I can find information that online	need	0			
e)	I can tell if a website is trus	stworthy	$\circ$			$\circ$
f)	I can easily do new things computers, laptops, or sma		0		0	
g)	I can help my friends or far members with using their of laptops, or smartphones		0			
ther	The next few question e are no right or wron following statements?	g answers.	=			_

UIIUN	UIIC	CII CI	r each	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
You have a certain amount of intelligence and you can't really do much to change it.	0	$\circ$	$\circ$	
Your intelligence is something about you that you can't change very much.	ı O	0	0	
No matter who you are, you can change your intelligence.		0	0	
You can learn new things, but you can't really change your basic intelligence.		0	0	
You can always change your intelligence.				$\circ$
No matter how much intelligence you have, you can always change it quite a bit.	$\circ$	0	$\circ$	$\circ$
low much effort did you apply to succ	eed on th	is test?		
one circle only.				
No effort at all				
Very little effort				
Some effort				
Quite a bit of effort				
A lot of effort				
Your School				
What do you think about your school? ee with these statements.	Tell how	much ye	ou	
	Click <b>o</b> ı	ne circle fo	or each line.	
Agree a lot			Disagree a little	Disagree a lot
	Your intelligence is something about you that you can't change very much.  No matter who you are, you can change your intelligence.  You can learn new things, but you can't really change your basic intelligence.  You can always change your intelligence.  No matter how much intelligence you have, you can always change it quite a bit.  How much effort did you apply to succeed one circle only.  No effort at all  Very little effort  Some effort  Quite a bit of effort  A lot of effort  Your School  What do you think about your school?  We with these statements.	You have a certain amount of intelligence and you can't really do much to change it.  Your intelligence is something about you that you can't change very much.  No matter who you are, you can change your intelligence.  You can learn new things, but you can't really change your basic intelligence.  You can always change your intelligence.  No matter how much intelligence you have, you can always change it quite a bit.  How much effort did you apply to succeed on the one circle only.  No effort at all  Very little effort  Some effort  Quite a bit of effort  A lot of effort  Your School  What do you think about your school? Tell how the with these statements.  Click or	You have a certain amount of intelligence and you can't really do much to change it.  Your intelligence is something about you that you can't change very much.  No matter who you are, you can change your intelligence.  You can learn new things, but you can't really change your basic intelligence.  You can always change your intelligence.  No matter how much intelligence you have, you can always change it quite a bit.  How much effort did you apply to succeed on this test?  one circle only.  No effort at all  Very little effort  Some effort  Quite a bit of effort  A lot of effort  Your School  What do you think about your school? Tell how much you with these statements.	You have a certain amount of intelligence and you can't really do much to change it.  Your intelligence is something about you that you can't change very much.  No matter who you are, you can change your intelligence.  You can learn new things, but you can't really change your basic intelligence.  You can always change your intelligence.  No matter how much intelligence you have, you can always change it quite a bit.  How much effort did you apply to succeed on this test?  one circle only.  No effort at all  Very little effort  Some effort  Quite a bit of effort  A lot of effort  Your School  What do you think about your school? Tell how much you see with these statements.  Click one circle for each line.  Agree Agree Disagree

I like being in school

I feel safe when I am at school

a)

b)

c)	I feel like I belong at this school				
d)	Teachers at my school care about me		0	0	0
e)	I am proud to go to this school	$\circ$	$\circ$	$\circ$	
f)	I have friends at this school		$\circ$	$\circ$	
g)	Students in this school respect me		$\circ$	$\circ$	
h)	Students at this school like me the way I am	0	0	$\circ$	$\circ$
_	During this school year, how o	_	_		

# 16. During this school year, how often have other students from your school done any of the following things to you in person, through messaging, or through social media?

		At least once a week	Once or twice a month	A few times a year	Never
a)	Made fun of me or called me names	$\circ$			
b)	Left me out of their games or activities			0	0
c)	Spread lies about me	$\circ$			
d)	Stole something from me	$\circ$			$\circ$
e)	Damaged something of mine on purpose			0	0
f)	Hit or hurt me (e.g., shoving, hitting, kicking)		0	0	0
g)	Made me do things I didn't want to do	0	0	0	$\circ$
h)	Sent me nasty or hurtful messages online	0	0	$\circ$	$\circ$
i)	Shared nasty or hurtful messages about me online	0	0	0	$\circ$
j)	Shared embarrassing photos of me online	78		$\circ$	$\circ$

k)	Threatened me		$\circ$		
	Outside	of Schoo			
17. <sup>-</sup>	The following questions ask al	oout activitie	es you do <u>(</u>	outside of s	<u>chool</u> .
					rcle for each ne.
				Yes	No
a)	Do you play on a sports team outside	of school?		$\circ$	
b)	Do you often play a musical instrume	nt outside of sc	nool?	$\circ$	
c)	Are you studying something in a class	s outside of sch	ool?	$\circ$	
d)	Do you belong to a club outside of sci 4-H, or Boys and Girls Club)?	hool (like Boy/G	irl Scouts,	0	0
	Mathematic	cs in Scho	ool		
18.   own	In mathematics lessons, how o	often do you	work on p	roblems on	your
Click	one circle only.				
	Every or almost every lesson				
	About half the lessons				
	Some lessons				
	Never				
	How much do you agree with t hematics?	hese statem	ents abou	t learning	
			Click <b>one</b> circ	le for each line	
		Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	I enjoy learning mathematics		$\circ$	0	
b)	I do not like doing mathematics		$\circ$	0	
c)	Mathematics is boring	79	$\circ$	$\circ$	

d)	I learn many interesting things in mathematics	0	$\circ$	$\circ$	0
e)	I like mathematics			0	
f)	I like any schoolwork that involves numbers	0	0	$\circ$	0
g)	I like to solve mathematics problems			$\circ$	
h)	I look forward to mathematics lessons	0	0	0	0
i)	Mathematics is one of my favorite subjects			0	
	How much do you agree with the sons?	ese statem	nents abou	t your <u>math</u>	<u>ematics</u>
			Click <b>one</b> circ	le for each line	
		Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	My teacher makes it clear what we should learn in each lesson	0	$\circ$	$\circ$	0
b)	My teacher is easy to understand	$\circ$	0	0	
c)	My teacher has clear answers to my questions	0	$\circ$	$\circ$	
d)	My teacher is good at explaining mathematics	0	0	0	0
e)	My teacher does a variety of things to help us learn	0	0	0	0
f)	My teacher explains a topic again when we don't understand	0	0	0	0
g)	My teacher gives me helpful feedback on my work	0	0	0	0
h)	My teacher asks me to show what I have learned	0	0	0	0
i)	My teacher asks me to explain my answers			$\circ$	

21. How often do these things happen in your mathematics lessons?

		Every or almost every lesson	About half the lessons	Some lessons	Never
a)	Students don't listen to what the teacher says	0	0	0	
b)	There is too much noise for students to work well	0		0	
c)	My teacher has to wait a long time for students to be quiet	0		0	
d)	Students interrupt the teacher			$\circ$	$\circ$
e)	Students do not follow the classroom rules	0	0	0	0
f)	Other students' behavior makes it hard for me to concentrate			$\circ$	$\circ$

# 22. How much do you agree with these statements about mathematics?

		Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	I usually do well in mathematics		$\circ$	$\circ$	$\circ$
b)	Mathematics is harder for me than for many of my classmates	0	0	0	0
c)	I am just not good at mathematics		$\circ$	$\circ$	$\circ$
d)	Mathematics is easy for me		$\circ$	$\circ$	$\circ$
e)	I am good at working out difficult mathematics problems	0	0	0	0
f)	I am good at explaining mathematics to others	0	0	0	0
g)	Mathematics is harder for me than any other subject	0	$\circ$	$\circ$	$\circ$

cie	nce experiments?				
ick	one circle only.				
	At least once a week				
	Once or twice a month				
	A few times a year				
	Never				
l. I	How much do you agree with th	ese statem	ents abou	t learning s	cience?
			Click <b>one</b> circ	le for each line	
		Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	I enjoy learning science		$\circ$	$\circ$	$\circ$
)	I do not like doing science			$\circ$	
;)	Science is boring			$\circ$	
1)	I learn many interesting things in science	0	0	0	0
',	I like science		$\bigcirc$		
	I look forward to learning science in		0	0	0
;)	school				
, ;) )	•	0	$\circ$		
;) ;) )	school Science teaches me how things in	0	0	0	0

		,			
		Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	My teacher makes it clear what we should learn in each lesson	0	0	0	
b)	My teacher is easy to understand	$\circ$	$\circ$	$\circ$	
c)	My teacher has clear answers to my questions	0	0	0	
d)	My teacher is good at explaining science	0	0	0	
e)	My teacher does a variety of things to help us learn	0	0	0	
f)	My teacher explains a topic again when we don't understand	0	0	0	
g)	My teacher gives me helpful feedback on my work	$\circ$	$\circ$	$\circ$	0
h)	My teacher asks me to show what I have learned	$\circ$	0		0
i)	My teacher asks me to explain my answers	0	0	0	
<b>26.</b>	How often do these things happ	en in your	<u>science le</u>	ssons?	

		Every or almost every lesson	About half the lessons	Some lessons	Never
a)	Students don't listen to what the teacher says	0		0	0
b)	There is too much noise for students to work well	0		0	0
c)	My teacher has to wait a long time for students to be quiet	0		0	$\circ$
d)	Students interrupt the teacher			$\circ$	$\circ$
e)	Students do not follow the classroom	83		$\circ$	$\circ$

	rules				
f)	Other students' behavior makes it hard for me to concentrate		$\circ$	$\circ$	
27. I	How much do you agree with th	ese statem	ents abou	t science?	
		Click one circle for each line.			
		Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	I usually do well in science		$\circ$	$\circ$	
b)	Science is harder for me than for many of my classmates	0	0	0	
c)	I am just not good at science		$\circ$	$\circ$	
d)	Science is easy for me		$\circ$	$\circ$	
e)	I am good at explaining science to others		0	0	
f)	Science is harder for me than any other subject		0	0	
g)	Science makes me confused		$\bigcirc$		
	Are you preparing for or have y or a science competition?	ou participa	ated in a so	cience club,	a science
Click	one circle only.				
	Yes				
	No				
Than	k you!				
To su	bmit your completed questionnaire, plea	ase click the "F	inish" button.		

#### TIMSS2023FT\_Grade8 - English (United States)

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## Welcome to the IEA TIMSS 2021 SurveySystem

#### Online Questionnaires Grade 8



Survey System

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Password:

Login



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#### Student Questionnaire - Grade 8

In this questionnaire, you will find questions about yourself. Some questions ask for facts while other questions ask for your opinion.

Each question is followed by a number of answers. Click the circle next to or under the answer of your choice as shown in Examples 1, 2, and 3.

### **Examples**

#### **Example 1**

#### Do you go to school?

Click one circle only.

- Yes
- No

#### Example 2

#### How often do you do these things?

#### Click one circle for each line. Every day Once or Once or **Never or** or almost twice a twice a almost week month every day never I talk with my friends a) b) I play sports I ride a skateboard

#### Example 3

What do you think? Tell how much you agree with these statements.

Agree	Agree	Disagree	Disagree
a lot	a little	a little	a lot
	86		

a)	Watching movies is fun					
b)	Ice cream tastes good	$\circ$				
c)	Waking up early is difficult	$\circ$	0	0	$\circ$	
d)	I enjoy doing chores	$\circ$	0	0	0	
. Do		al mials than a ma	a. daial	ia baat		
	ad each question carefully, and	•	wer you tnink	is dest.		
	k the circle next to or under y					
• Ask	for help if you do not underst	and somethin	g or are not su	ire how to ans	wer.	
• You	may change your answers a	t any time befo	ore submitting	the questionn	aire.	
		About	<b>You</b>			
1. A	. Which of these descri	bes you?				
Click	one circle only.					
	Girl					
	Воу					
$\circ$	Other					
	Prefer not to say					
1. B	. Are you Hispanic or L	atino?				
Click	one circle only.					
$\circ$	Yes, I am Hispanic or Latin	o				
	No, I am not Hispanic or La	atino				
1. C	. Which of the following	g best desc	ribes you?			
Chec	k <b>all</b> that apply.					
	American Indian or Alaska	Native				
	Asian					
	Black or African American					

	Native Hawaiian or other Pacific Islander
	White
2. Wł	nen were you born?
a) Mo	onth
Click t	he circle next to the month you were born.
	January
	February
	March
	April
	May
	June
	July
	August
	September
	October
	November
	December
2. Wł	nen were you born?
b) Ye	ar
Click t	he circle next to the year you were born.
	2005
	2006
	2007
$\circ$	2008
	2009
	2010

	2011
	2012
	2013
	Other
3. A.	How often do you speak English at home?
Click o	one circle only.
	Always
	Almost always
	Sometimes
	Never
3. B.	What language do you speak at home (other than English)?
Check	c <b>all</b> that apply.
	Spanish
	Other (please specify)
	oout how many books are there in your home? (Do not count magazines, spapers, or your school books.)
Click o	one circle only.
	None or very few (0–10 books)
	Enough to fill one shelf (11–25 books)
	Enough to fill one bookcase (26–100 books)
	Enough to fill two bookcases (101–200 books)
	Enough to fill three or more bookcases (more than 200)
5. Do	you have any of these things at your home?

					rircle for each ne.
				Yes	No
a)	Your own computer or tablet			$\circ$	$\circ$
b)	A shared computer or tablet you can u	se		$\circ$	$\circ$
c)	Your own smartphone			$\circ$	$\circ$
d)	A shared smartphone you can use			$\circ$	$\circ$
e)	Access to the internet			$\circ$	$\circ$
f)	Study desk/table for your use			$\circ$	$\circ$
g)	Your own room			$\circ$	$\circ$
h)	A gaming system (e.g., PlayStation, Ni	ntendo Switch	ı, Xbox)		
6. H	ow many of the following devic	es are curr	ently use	d in your h	ome?
			Click <b>one</b> ci	rcle for each li	ne.
		None	One	Two	Three or more
a)	Desktop or laptop computers		$\circ$		$\circ$
b)	Tablet devices (e.g., iPad, Surface Pro, Kindle)	0	0	0	0
Pare Pare	following questions are about ent/Guardian B. If you have only ent/Guardian A. If you have two ent/Guardian A and the other fo	y one parer parents/gu	nt/guardia uardians,	nn, answer f choose one	
	hat is the highest level of educents/guardians?	ation comp	oleted by	your	
			_		ircle in each imn.
			,	Parent / Guardian A	Parent / Guardian B

Less	than high school		
Som	e high school		$\circ$
High	school graduate		$\circ$
Asso	ciate's degree (2-year college program)		
Bach	elor's degree (4-year college program)	0	
Mast minis	er's degree or professional degree (MD, DDS, lawyer, ster)	0	0
Doct	orate (Ph.D, Ed.D.)		$\circ$
I don	't know		$\circ$
Not a	applicable		
8. Hc	w far in your education do you expect to go?		
Click o	one circle only.		
	Finish middle school		
	Finish high school		
	Finish Associate's degree (2-year college program)		
	Finish Bachelor's degree (4-year college program)		
	Finish Master's degree or professional degree (MD, DDS, lav	wyer, minister)	
	Finish Doctorate (Ph.D., Ed.D.)		
9. W	ere your parents/guardians born in the United Sta	ates?	
A. Pa	rent/Guardian A		
Click o	one circle only.		
	Yes		
	No		
	I don't know		
	Not applicable		

B. Parent/Guardian B

Click	one circle only.				
	Yes				
	No				
	I don't know				
	Not applicable				
10. /	A. Were you born in the Unit	ed States?			
Click	one circle only.				
	Yes				
	No				
	B. If you were not born in the ne to the United States?	e United Stat	es, how old	d were you when you	J
Click	one circle only.				
	Older than 10 years old				
	5 to 10 years old				
	Younger than 5 years old				
11.	About how often are you abs	sent from sc	hool?		
Click	one circle only.				
	Once a week				
	Once every two weeks				
	Once a month				
	Once every two months				
	Never or almost never				
12. I	Have you ever repeated a gr	ade?			
		Click <b>one</b> cire			
		Yes	No		
a)	In elementary school	92			

b) <b>13.</b>	In middle or junior high scho		o hen you a	ourrive at	school?	
			Click <b>o</b> n	e circle for	each line.	
		Every day	Almost ev	ery day	Sometimes	Never
a)	I feel tired	$\circ$	0			0
b)	I feel hungry					
mat	How often do you use the hematics or science so studying outside of cl	choolwork		g classro	oom tasks,	
				At lea once a wee	twic	e almost
a)	Access the textbook or other	er course mate	erials	$\circ$	$\circ$	0
b)	Access assignments posted	d online by my	/ teacher		$\circ$	0
c)	Collaborate with classmates projects	s on assignme	ents or		0	0
d)	Ask my teacher questions				$\circ$	$\circ$
e)	Find information, articles, o mathematics or science	r tutorials abo	ut		0	0
f)	Access learning games or a mathematics or science	activities relate	ed to	0	$\circ$	0
15.	How much do you agre	ee with the	se statem	ents?		
		_	(	Click <b>one</b> c	ircle for each	line.
			Agree a lot	Agree a little	Disagro a little	
a)	I can write and edit text on a computer, tablet, or smartpl		0	0	0	0
			93 🔾			

b)	I can create school presentations using a computer, tablet, or smartphone				
c)	I can create tables, charts, and graphs using a computer, tablet, or smartphone	(		0	0
d)	I can find information that I need online				$\circ$
e)	I can tell if a website is trustworthy			$\circ$	$\circ$
f)	I can easily do new things on computers, laptops, or smartphones				0
g)	I can help my friends or family members with using their computers, laptops, or smartphones				
		C	lick <b>one</b> c	ircle for each	line.
		Agree a lot	Agree a little	ircle for each  Disagree a little	Disagree a lot
a)	You have a certain amount of intelligence and you can't really do much to change it.	Agree	Agree	Disagree	Disagree
a) b)		Agree a lot	Agree	Disagree	Disagree
,	you can't really do much to change it.  Your intelligence is something about you that yo	Agree a lot	Agree	Disagree	Disagree
b)	you can't really do much to change it.  Your intelligence is something about you that yo can't change very much.  No matter who you are, you can change your	Agree a lot	Agree	Disagree	Disagree
b)	you can't really do much to change it.  Your intelligence is something about you that yo can't change very much.  No matter who you are, you can change your intelligence.  You can learn new things, but you can't really	Agree a lot	Agree a little	Disagree	Disagree
b) c) d)	you can't really do much to change it.  Your intelligence is something about you that yo can't change very much.  No matter who you are, you can change your intelligence.  You can learn new things, but you can't really change your basic intelligence.	Agree a lot	Agree a little	Disagree	Disagree
b) c) d) e) f)	you can't really do much to change it.  Your intelligence is something about you that yo can't change very much.  No matter who you are, you can change your intelligence.  You can learn new things, but you can't really change your basic intelligence.  You can always change your intelligence.  No matter how much intelligence you have, you	Agree a lot	Agree a little	Disagree	Disagree
b) c) d) e) f)	you can't really do much to change it.  Your intelligence is something about you that yo can't change very much.  No matter who you are, you can change your intelligence.  You can learn new things, but you can't really change your basic intelligence.  You can always change your intelligence.  No matter how much intelligence you have, you can always change it quite a bit.	Agree a lot	Agree a little	Disagree	Disagree

	What do you think about your sements.	School chool? Tel		-	-	
		Agree a lot	Agree a little	e Dis	each line. sagree little	Disagree a lot
a)	I like being in school	$\circ$			$\circ$	
o)	I feel safe when I am at school	$\circ$				
c)	I feel like I belong at this school	$\circ$			$\circ$	
d)	Teachers at this school care about me	$\circ$				
e)	I am proud to go to this school	$\circ$	$\circ$		$\bigcirc$	
<del>-</del> )	I have friends at this school	$\circ$	$\circ$		$\bigcirc$	
g)	Students in this school respect me	$\circ$	$\circ$		$\bigcirc$	
า)	Students at this school like me the way I am	0				0
on	During this school year, how of e any of the following things to ugh social media?				_	
			Cli	ck <b>one</b> ci	rcle for ea	ach line.
			At least once a week	Once or twice a month	A few times a year	Never

Very little effort

a)	Said mean things about my physical appearance (e.g., my hair, my size)			0	0	
b)	Spread lies about me	$\circ$	$\circ$			
c)	Shared my secrets with others	$\circ$	$\circ$			
d)	Refused to talk to me	$\circ$	$\circ$	$\circ$	$\circ$	
e)	Said hurtful things to or about me because of my cultural background (e.g., race, ethnicity, religion)				0	
f)	Stole something from me		$\circ$			
g)	Made me do things I didn't want to do		$\circ$			
h)	Sent me nasty or hurtful messages online		$\bigcirc$			
i)	Shared nasty or hurtful things about me online	$\circ$	$\circ$			
j)	Shared embarrassing photos of me online		$\circ$			
k)	Threatened me		$\circ$			
I)	Physically hurt me		$\bigcirc$			
m)	Excluded me from their group (e.g., parties, messaging)					
n)	Damaged something of mine on purpose		$\circ$			
	Mathematics in School	ol				
20. lı own'	n mathematics lessons, how often do you v ?	vork on	proble	ms on yo	ur	
Click	one circle only.					
	Every or almost every lesson					
	About half the lessons					
	Some lessons					
	Never					
21. How much do you agree with these statements about learning mathematics?						

		Agree a lot	Agree a little	Disagree a little	Disagree a lot			
a)	I enjoy learning mathematics		$\circ$	$\circ$	$\circ$			
b)	I do not like doing mathematics	$\circ$	$\circ$	$\circ$	$\circ$			
c)	Mathematics is boring	$\circ$	$\circ$	$\circ$	$\circ$			
d)	I learn many interesting things in mathematics	0	0	0	0			
e)	I like mathematics	$\circ$	$\circ$	$\circ$	$\circ$			
f)	I like any schoolwork that involves numbers	0	0	0	0			
g)	I like to solve mathematics problems	$\circ$	$\circ$	$\circ$	$\circ$			
h)	I look forward to mathematics class	$\circ$	$\circ$	$\circ$	$\circ$			
i)	Mathematics is one of my favorite subjects	$\circ$	$\circ$	0	0			
22.	22. How much do you agree with these statements about your <u>mathematics</u>							

# lessons?

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
My teacher makes it clear what we should learn in each lesson	0	0	0	$\circ$
b) My teacher is easy to understand	$\circ$		$\circ$	$\circ$
c) My teacher has clear answers to my questions		0	0	
d) My teacher is good at explaining mathematics		0	0	
e) My teacher does a variety of things to help us learn	0	0	$\circ$	$\circ$
f) My teacher explains a topic again when we don't understand	0	$\circ$	$\circ$	$\circ$
g) My teacher gives me helpful	97		0	0

	feedback on my work				
h)	My teacher asks me to show what I have learned		$\circ$	0	0
i)	My teacher asks me to explain my answers		$\circ$	0	0
j)	My teacher asks us to apply what we have learned in new situations		$\circ$	0	0
23.	How often do these things happe	n in your <u>m</u>	<u>nathemati</u>	<u>cs lessons</u> '	?
			Click <b>one</b> circ	cle for each lin	e.
		Every or almost every lesson	About half the lessons	Some lessons	Never
a)	Students don't listen to what the teacher says	0	0	0	
b)	There is too much noise for students to work well	0	0	0	
c)	My teacher has to wait a long time for students to be quiet	0	0	0	
d)	Students interrupt the teacher		$\circ$	$\circ$	$\circ$
e)	Students do not follow the classroom rules	0		0	
f)	Other students' behavior makes it hard for me to concentrate	0	$\circ$	0	0
24.	How much do you agree with thes	se stateme	nts about	mathemati	cs?
	_	CI	ick <b>one</b> circle	e for each line	
		Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	I usually do well in mathematics	$\circ$	$\circ$		$\circ$
b)	Mathematics is harder for me than for many of my classmates		0	0	
c)	Mathematics is not one of my	98		$\circ$	$\circ$

	strengths				
d)	Mathematics is easy for me				
e)	I am good at working out difficult mathematics problems	0	0	$\circ$	0
f)	I am good at explaining mathematics to others	$\circ$	$\circ$	$\circ$	$\circ$
g)	Mathematics is harder for me than any other subject	0	0	0	0
h)	Mathematics makes me confused	$\circ$			
25.	How much do you agree with the	ese statem	nents abou	t mathemati	ics?
			Click <b>one</b> circ	ele for each line	
		Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	I think learning mathematics will help me in my daily life	$\circ$	$\circ$	$\circ$	$\circ$
b)	I need mathematics to learn other school subjects	$\circ$	$\circ$	$\circ$	$\circ$
c)	I need to do well in mathematics to get into the college or university of my choice	0	0	0	0
d)	I need to do well in mathematics to get the job I want	$\circ$	$\circ$	$\circ$	$\circ$
e)	I would like a job that involves using mathematics	$\circ$	0	$\circ$	$\circ$
f)	It is important to learn about mathematics to get ahead in the world	0	0	0	0
g)	Learning mathematics will give me more job opportunities when I am an adult	0	0	0	0
h)	My parents think that it is important that I do well in mathematics	$\circ$	0	$\circ$	$\circ$
i)	It is important to do well in mathematics	$\circ$			$\circ$

#### Science in School

# 26. In science lessons, how often does your teacher ask you to conduct science experiments?

Click <b>one</b> circle only		

- At least once a week
- Once or twice a month
- A few times a year
- Never

#### 27. How much do you agree with these statements about learning science?

Click one circle for each line.

		-			
		Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	I enjoy learning science		$\circ$	$\circ$	
b)	I do not like doing science	$\circ$	$\circ$	$\circ$	
c)	Science is boring	$\circ$		$\circ$	
d)	I learn many interesting things in science	0	0	0	0
e)	I like science	$\circ$	$\bigcirc$	$\circ$	
f)	I look forward to learning science in school	0	0	0	0
g)	Science teaches me how things in the world work	0	0	0	0
h)	I like to conduct science experiments	$\circ$		$\circ$	
i)	Science is one of my favorite subjects	$\circ$	$\circ$	$\circ$	$\circ$

# 28. How much do you agree with these statements about your <u>science</u> <u>lessons</u>?

		Agree a lot	Agree a little	Disagree a little	Disagree a lot		
a)	My teacher makes it clear what we should learn in each lesson	0	0	0			
b)	My teacher is easy to understand		$\bigcirc$	$\circ$			
c)	My teacher has clear answers to my questions	0	0	0			
d)	My teacher is good at explaining science	$\circ$	$\circ$	0			
e)	My teacher does a variety of things to help us learn		$\circ$	$\circ$			
f)	My teacher explains a topic again when we don't understand	$\circ$	$\circ$	$\circ$			
g)	My teacher gives me helpful feedback on my work	$\circ$	$\circ$	$\circ$			
h)	My teacher asks me to show what I have learned		$\bigcirc$				
i)	My teacher asks me to explain my answers	$\circ$	$\circ$	$\circ$			
j)	My teacher asks us to apply what we have learned in new situations	0	0	0			
29. How often do these things happen in your science lessons?							
			Click <b>one</b> circle for each line.				
		Every or almost every lesson	About half the lessons	Some lessons	Never		
a)	Students don't listen to what the teacher says		0	0			
b)	There is too much noise for students to work well		0	0			
c)	My teacher has to wait a long time for students to be quiet		0	0			

d)	Students interrupt the teacher					
e)	Students do not follow the classroom rules		0	0	0	
f)	Other students' behavior makes it hard fo me to concentrate	r		$\circ$	0	
<b>30</b> .	How much do you agree with thes	se statem	ents abou	t science?		
	_	Click <b>one</b> circle for each line.				
		Agree a lot	Agree a little	Disagree a little	Disagree a lot	
a)	I usually do well in science	$\circ$		0	$\circ$	
b)	Science is more difficult for me than for many of my classmates	0		0	0	
c)	Science is not one of my strengths	$\bigcirc$			$\circ$	
d)	Science is easy for me	$\circ$	$\circ$		$\circ$	
e)	I am good at working out difficult science problems			0	0	
f)	I am good at explaining science to others			0	0	
g)	Science is harder for me than any other subject			0	0	
h)	Science makes me confused	$\circ$	$\circ$	$\circ$	$\circ$	
31.	How much do you agree with thes	se statem	ents abou	t science?		
	_	Click one circle for each line.				
		Agree a lot	Agree a little	Disagree a little	Disagree a lot	
a)	I think learning science will help me in my daily life	0		0	0	
b)	I need science to learn other school subjects	0		0	0	
c)	I need to do well in science to get into the college or university of my	102	0	$\circ$	$\circ$	

	choice							
d)	I need to do well in science to the job I want	o get	0	0	0	0		
e)	I would like a job that involves science	s using	$\circ$	0	0			
f)	It is important to learn about to get ahead in the world	science	$\circ$	$\circ$	0			
g)	Learning science will give me job opportunities when I am a		0	0	0			
h)	My parents think that it is imp that I do well in science	oortant	0	0	0			
i)	It is important to do well in so	ience						
32. In this school year, are you preparing for or have you participated in any of the following activities?								
		Click o	<b>ne</b> circle for ea line.	ach				
		Yes	No					
a)	Science fair							
b)	Science club							
c)	Science competition		0					
		Homework						
33. How often does your teacher give you homework in each of the following subjects?								
		Click <b>one</b> circle for each line.						
		Every day	3 or 4 times a week	1 or 2 times a week	Less than once a week	Never		
a)	Mathematics		$\circ$		$\circ$	$\circ$		
b)	Science		0	0	0	0		

#### **Outside of School**

#### 34. The following questions ask about activities you do outside of school.

Click one circle for each line. Yes No Do you play on a sports team outside of school? a) Do you often play a musical instrument outside of school? b) c) Are you studying something in a class outside of school? Do you belong to a club outside of school (like Boy/Girl Scouts, d) 4-H, or Boys and Girls Club)? Thank you for the thought, time, and effort you have put into completing this questionnaire. To submit your completed questionnaire, please click the "Finish" button.