Trends in International Mathematics and Science Study (TIMSS) 2023 Main Study International Questionnaire

OMB #1850-0695 v.20

Appendix C: Questionnaires

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

October 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).

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

TIMSS 2023 - Grade 4 - Data Collection - English (United States)

You are logged in as: 9999 Logout

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 more than 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.

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

To begin the questionnaire, please click on the "Next" button. When pavigating through the questionnaire, make sure to confirm

ω,	homes				
a)	Come from economically disadvantaged				
		0 to 10%	11 to 25%	26 to 50%	More than 50%
			Click one circ	le for each line.	
3. Ap	pproximately what percentage of stud	ents in your so	chool have the	following bac	ckgrounds?
Туре	in the number.				
	students				
2. W	hat is the total enrollment of <u>fourth-gr</u>	<u>rade</u> students i	n your school	as of March 2	20, 2023?
Туре	in the number.				
	students				
1. W	hat is the total enrollment of students	in your schoo	l as of March	20, 2023?	
	School Enrollment and Characteris	stics			
Thank	gyou.				
	you have completed the questionnaire, please of tyour answers.	click on the "Finish	' button at the end	l of the last questi	on in order to
	sponding link in the "Table of Contents."				

b)	Come from economically affluent homes				
	Around the 1st of October 2022, whelve free or reduced-price lunches				igible to
	percentage of students				
Туре	e in the number.				
	approximately what percentage of guage?	students in your	school have En	ıglish as their na	tive
Click	k one circle only.				
	More than 90%				
	76 to 90%				
	51 to 75%				
	26 to 50%				
	25% or less				
	Of the students currently enrolled in ited-English proficient (LEP)/Engli			has been identif	ied as
Click	k one circle only.				
	0%				
	1-5%				
	6-10%				
	11-25%				
	26-50%				
	51-75%				
	76-90%				
	Over 90%				
7. A	A. How many people live in the city	, town, or area w	here your schoo	ol is located?	
Click	k 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
\circ	3,000 people or fewer
B. Wi	hich best describes the immediate area in which your school is located?
Click o	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 th	he fourth-grade students in your school:
8. A. I	How many <u>days per year</u> is your school open for instruction?
	days
Type in	n the number.
B. Wł	hat is the total instructional time, excluding breaks, in a typical day?
	minutes
	n the number of minutes per day. se convert the number of hours into minutes.
C. In	one calendar week, how many days is the school open for instruction?
Click o	one circle only.
	6 days
	5 1/2 days
	5 days
	4 1/2 days
	4 days
	Other
	Resources and Technology Appendix C - Page 3

	ow many computers (including ents?	tablets)	does your sch	ool have for u	ıse by fourth-લ	grade
	computers					
Туре	in the number.					
10. E	Ooes your school have a scienc	e labora	tory that can b	e used by fou	ırth-grade stu	dents?
Click	one circle only.					
	Yes					
	No					
	oes your school use an online her-student communication, ma	_	_	•		
Click	one circle only.					
	Yes					
	No					
12. C	Oo students in your school have	access	to these resou	ırces?		
		Click one c	ircle for each line.			
		Yes	No			
a)	A library or media center		\circ			
b)	High speed internet					
	low much is your school's capa equacy of the following?	acity to p	provide instruc	tion affected	by a shortage	or
				Click one circl	e for each line.	
A. C	General School Resources		Not at all	A little	Some	A lot
a)	Instructional materials (e.g., textbooks	s)				
b)	Supplies (e.g., papers, pencils, materi	als)	\bigcirc	\circ		
c)	School buildings and grounds			\bigcirc		
d)	Heating/cooling and lighting systems			\circ		
e)	Instructional space (e.g., classrooms)		\circ	\circ		
f)	Technologically competent staff			\circ	\circ	
g)	Audio-visual resources for delivery of	Арр	pendix C Page 4			

	instruction (e.g., interactive white bodigital projectors)	oards,				
h)	Digital devices for student use		\circ			
i)	Resources for students with disabili	ties				
low	continued) much is your school's capac e following?	ity to provid	de instructior	affected by a	shortage or	inadequacy
		,		Click one circle	for each line.	
B. R	desources for Mathematics Instruct	ion	Not at all	A little	Some	A lot
a)	Teachers with a specialization in ma	athematics				
b)	Computer software/applications for mathematics instruction		0		\circ	
c)	Library resources relevant to mathe instruction	matics	\circ		0	0
d)	Calculators for mathematics instruc	tion	\circ		\circ	
e)	Concrete objects or materials to hel understand quantities or procedures		0		0	
				Click one circle	for each line.	
C. R	Resources for Science Instruction		Not at all	A little	Some	A lot
a)	Teachers with a specialization in sc	ence				
၁)	Computer software/applications for instruction	science	\circ		\circ	
c)	Library resources relevant to science instruction	e	\circ		0	
d)	Science equipment and materials for experiments	pr	0		0	0
	School Emphasis on Acad	emic Succe	ess			
4. H	low would you characterize e	ach of the fo	ollowing with	in your schoo	l?	
		,	Clici	k one circle for ea	ch line.	
		Very high	High	Medium	Low	Very low
a)	Teachers' understanding of the school's curricular goals	Appe	ndix C – Page 5			\circ

b)	Teachers' degree of success in implementing the school's curriculum	0	0	0		
c)	Teachers' expectations for student achievement	0	0	0	\circ	
d)	Teachers' ability to inspire students	0	0	0	\circ	\circ
e)	Parental involvement in school activities	\circ	\circ	0	\circ	
f)	Parental commitment to ensure that students are ready to learn	0			\circ	\circ
•	continued) would you characterize each	of the following		school?		
		Very high	High	Medium	Low	Very low
g)	Parental expectations for student achievement	\circ	0	0	\circ	
h)	Parental support for student achievement	\circ	\circ	0	\bigcirc	\circ
i)	Students' desire to do well in school	0	0	0	\bigcirc	0
j)	Students' ability to reach school's academic goals	0	0	0	0	0
k)	Students' respect for classmates who excel academically	0	0	0	\circ	0
	School Emphasis on Envir	onmental Sus	stainability			
15. F	low much do you agree with t	hese stateme	nts?			
				Click one circle fo	r each line.	
			Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	This school has a shared vision about supporting environmental sustainab			0	\circ	
b)	This school regularly reviews its pra them more environmentally sustaina		0	\circ		
c)	There is a schoolwide approach to tenvironmental sustainability to stude		\circ			

	Not a	Minor	Moderate	Serious	
		Click one cir	rcle for each line.		
7. To	o what degree is each of the following a	problem amo	ng teachers ir	n your school	?
	staff (including texting, emailing, etc.)				
)	Intimidation or verbal abuse of teachers or	\circ			
	Physical fights among students				
)	Intimidation or verbal abuse among students (including texting, emailing, etc.)	\circ			
)	Theft	\circ			
	Vandalism	\circ			\circ
)	Profanity	\circ			\circ
	Cheating	\circ	0		
	Classroom disturbance	\circ	0	0	
	Absenteeism (i.e., unjustified absences)	\circ	0	0	\circ
	Arriving late at school	\circ	0	0	
		Not a problem	Minor problem	Moderate problem	Serious problem
			Click one circle	for each line.	
	o what degree is each of the following a ol?	Propietii amo	ing iourin-gra	ue students in	your
_	School Discipline and Safety			do otudouto im	
)	This school promotes participation in networks or projects related to environmental sustainability	C			0
	This school promotes environmental sustainability within the community				
	This school encourages teachers to learn about teaching environmental sustainability				0
	This school teaches students how to take action to protect the natural environment	0			

	School Readiness				
	bout how many of the students in your of primary/elementary school?	ur school can	do the follow	ing when the	y begin the f
			Click one circ	cle for each line.	
		Less than 25%	25–50%	51–75%	More than 75%
)	Recognize most of the letters of the alphabet	\circ			\circ
)	Read some words		\circ	\circ	
)	Read sentences		\circ	\circ	
)	Write letters of the alphabet		\circ	\circ	
)	Write their names	\circ			
. (c	Write their names Write words other than their names continued) It how many of the students in your second primary/elementary school?	chool can do t	the following	when they be	egin the first
ou	Write words other than their names continued) It how many of the students in your s	chool can do t	the following Click one circle	-	egin the first
. (c	Write words other than their names continued) It how many of the students in your s	Chool can do t		-	egin the first More than 75%
. (c ou ade	Write words other than their names continued) It how many of the students in your s	Less	Click one circle	for each line.	More
. (cou ade	Write words other than their names continued) It how many of the students in your s of primary/elementary school?	Less	Click one circle	for each line.	More
)))	Write words other than their names continued) It how many of the students in your se of primary/elementary school? Count up to 100 or higher	Less	Click one circle	for each line.	More
. (c oou ade	Write words other than their names continued) It how many of the students in your set of primary/elementary school? Count up to 100 or higher Recognize written numbers from 1-10	Less	Click one circle	for each line.	More
. (cou	Write words other than their names continued) It how many of the students in your set of primary/elementary school? Count up to 100 or higher Recognize written numbers from 1-10 Recognize written numbers higher than 10	Less	Click one circle	for each line.	More
. (c	Write words other than their names continued) It how many of the students in your set of primary/elementary school? Count up to 100 or higher Recognize written numbers from 1-10 Recognize written numbers higher than 10 Write numbers from 1-10	Less	Click one circle	for each line.	More

Please	round to the nearest whole number	er.				
20. B	y the end of this school yea	r, how many years	will you ha	ve been a pr	incipal at	this school?
	years					
Please	round to the nearest whole number	er.				
21. W	hat is the highest level of fo	ormal education yo	u have com	pleted?		
Click o	ne circle only.					
	Did not complete Bachelor's deg	ree (4-year college prog	ıram)			
	Bachelor's degree (4-year colleg	je program)				
	Master's degree or professional	degree (MD, DDS, lawy	er, minister)			
	Doctorate (Ph.D., Ed.D.)					
22. D	o you hold the following qu	alifications or cred	entials in <u>e</u>	ducational le	eadership?	•
			_	Click one circle	e for each line).
				Yes	No	
a)	Principal Certification					
b)	Master's degree or professional de	egree (MD, DDS, lawyer	, minister)			
c)	Doctorate (Ph.D., Ed.D.)					
	COVID-19 Pandemic					
	or how long was your school emic?	ol fully closed for ir	n-person ins	struction be	cause of th	ne COVID-19
			Click one (circle for each li	ne.	
		The school did not fully close	Less than 1 month	1 1 to 3 months	4 to 6 months	More than 6 months
a)	2019 – 2020 school year	\circ				
b)	2020 – 2021 school year	0	\circ	\circ		\circ
c)	2021 – 2022 school year	0	\circ	\circ		\circ
d)	2022 – 2023 school year	\circ				
Thank	you for the thought, time, and ef	fort you have put into o	completing th	is questionnai	re.	
To sub	mit your completed questionnaire, p	please click the "Finish" b	outton.			

TIMSS 2023 - Grade 8 - Data Collection - English (United States)

You are logged in as: 9999 Logout

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 more than 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.

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

To begin the questionnaire, please click on the "Next" button. When navigating through the questionnaire, make sure to confirm

	,	Appendix C – Page 11			
a)	Come from economically disadvantaged homes		\circ		
		0 to 10%	11 to 25%	26 to 50%	More than 50%
			Click one circ	le for each line.	
3. Ap	proximately what percentage of stud	ents in your so	chool have the	following bac	kgrounds?
Type i	in the number.				
	students				
2. WI	hat is the total enrollment of <u>eighth-g</u>	rade students	in your schoo	l as of March 2	20, 2023?
Type i	in the number.				
	students				
1. WI	hat is the total enrollment of students	in your schoo	l as of March	20, 2023?	
	School Enrollment and Characteris	stics			
Thank	you.				
	you have completed the questionnaire, please of tyour answers.	click on the "Finish	" button at the end	l of the last question	on in order to
	esponses by clicking on the "Next" or "Back" but sponding link in the "Table of Contents."	ton. To go to a par	ticular section or it	em, please click c	n the

b)	(Come from economically affluent homes				
		and the 1st of October 2022, what the free or reduced-price lunches th	-			igible to
		percentage of students				
Тур	e in t	he number.				
	Appı gua	roximately what percentage of stu ge?	udents in your s	school have En	ıglish as their na	ative
Clic	k on e	e circle only.				
		More than 90%				
		76 to 90%				
		51 to 75%				
		26 to 50%				
		25% or less				
		ne students currently enrolled in y -English proficient (LEP)/English			has been identif	fied as
Clic	k on e	e circle only.				
		0%				
		1-5%				
		6-10%				
		11-25%				
		26-50%				
		51-75%				
		76-90%				
		Over 90%				
7. /	A. H	ow many people live in the city, to	own, or area wh	ere your schoo	ol is located?	
Clic	k on e	e 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. Wr	nich best describes the immediate area in which your school is located?
Click o	ne 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 th	ne eighth-grade students in your school:
8. A. I	How many <u>days per year</u> is your school open for instruction?
	days
Type in	n the number.
B. Wh	nat is the total instructional time, excluding breaks, in a typical day?
	minutes
	n the number of minutes per day. Se convert the number of hours into minutes.
C. In	one calendar week, how many days is the school open for instruction?
Click o	ne circle only.
	6 days
	5 1/2 days
	5 days
	4 1/2 days
	4 days
	Other
	Resources and Technology Appendix C - Page 13

	ow many computers (includinents?	g tablets)	does your sch	ool have for u	use by eighth-	grade
	computers					
Туре	in the number.					
10. E	Ooes your school have a scie	nce labora	tory that can b	e used by eig	ıhth-grade stu	dents?
Click	one circle only.					
	Yes					
	No					
	oes your school use an onling the control of the co	_	_	•		. •
Click	one circle only.					
	Yes					
	No					
12. E	Oo students in your school ha	ive access	to these resou	ırces?		
		Click one c	ircle for each line.			
		Yes	No			
a)	A library or media center		\circ			
b)	High speed internet					
	low much is your school's ca equacy of the following?	pacity to p	provide instruc	tion affected	by a shortage	or
				Click one circl	e for each line.	
Α. Ο	General School Resources		Not at all	A little	Some	A lot
a)	Instructional materials (e.g., textboo	oks)	\circ	\circ	0	
b)	Supplies (e.g., papers, pencils, ma	terials)	\circ	\circ	0	
c)	School buildings and grounds		\circ	\circ		
d)	Heating/cooling and lighting system	าร	\bigcirc	\circ	0	
e)	Instructional space (e.g., classroom	ns)	\circ	\circ	0	
f)	Technologically competent staff			\circ		
g)	Audio-visual resources for delivery	of App	pendix C – Page 14			

	instruction (e.g., interactive white boards, digital projectors)				
h)	Digital devices for student use			\circ	
)	Resources for students with disabilities				
ow	continued) much is your school's capacity to provi e following?	ide instruction	affected by a	shortage or	inadequac
			Click one circle	for each line.	
8. R	esources for Mathematics Instruction	Not at all	A little	Some	A lot
)	Teachers with a specialization in mathematics			\bigcirc	
)	Computer software/applications for mathematics instruction			\circ	
)	Library resources relevant to mathematics instruction			0	0
)	Calculators for mathematics instruction			\circ	
)	Concrete objects or materials to help students understand quantities or procedures			0	0
			Click one circle	for each line.	
. R	esources for Science Instruction	Not at all	A little	Some	A lot
)	Teachers with a specialization in science	\circ	\circ	\circ	
)	Computer software/applications for science instruction			\circ	
)	Library resources relevant to science instruction			0	0
)	Calculators for science instruction			\circ	
)	Science equipment and materials for experiments			\circ	0
	School Emphasis on Academic Succ	ess			
. Н	ow would you characterize each of the	following with	in your schoo	l?	
		Click	k one circle for ea	ch line.	
	Very high	High	Medium	Low	Very low

a)	Teachers' understanding of the school's curricular goals		\circ		0	
b)	Teachers' degree of success in implementing the school's curriculum	0	0			
c)	Teachers' expectations for student achievement		\circ	0		
d)	Teachers' ability to inspire students		\circ	0		
e)	Parental involvement in school activities		\circ	0		
f)	Parental commitment to ensure that students are ready to learn		\circ	0		0
	continued) would you characterize each	of the follow	wing within y	our school?		
		,	Click	k one circle for ea	och line.	
		Very high	High	Medium	Low	Very low
g)	Parental expectations for student achievement		\circ	\circ		
h)	Parental support for student achievement		\circ	\circ		
i)	Students' desire to do well in school		\circ	\circ		
j)	Students' ability to reach school's academic goals		\circ	\circ		
k)	Students' respect for classmates who excel academically		\circ	0	0	
	low much do you agree with t in your school?	hese staten	nents about r	nathematics a	and science e	ducation
		-		Click one circle	e for each line.	
			Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	The school provides students with in about career options in mathematics science					
b)	The school has initiatives to promot interest in mathematics and science student clubs, competitions)		0	0	0	0

c)	The school provides special activities in mathematics and science for interested students	0		0		\circ
d)	The school emphasizes the importance of studying mathematics and science in the future			0	0	0
	School Emphasis on Environme	ental Sustain	ability			
16. H	low much do you agree with these	statements a	bout your s	chool?		
				Click one circle fo	r each line.	
			Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	This school has a shared vision about its resupporting environmental sustainability	ole in	0		\circ	
b)	This school regularly reviews its practices them more environmentally sustainable	o make	\circ		\circ	
c)	There is a schoolwide approach to teaching environmental sustainability to students				0	
d)	This school teaches students to appreciate environment	chool teaches students to appreciate the natural onment		0	0	
e)	This school teaches students how to take a protect the natural environment	chool teaches students how to take action to t the natural environment		0	0	
f)	This school encourages teachers to learn a teaching environmental sustainability	about	0	0	0	0
g)	This school promotes environmental sustain within the community	inability	0		0	
h)	This school promotes participation in netwo		0	0	0	
	School Discipline and Safety					
17. T scho	o what degree is each of the follow ol?	ring a proble	m among ei	ghth-grade stu	udents in ye	our
			Click one d	ircle for each line.		
		Not a problem	Minor problem	Moderate problem	Serio proble	
a)	Arriving late at school				\circ	
b)	Absenteeism (i.e., unjustified absences)	\circ		0		
c)	Classroom disturbance	Appendix C – Pa	age 17			

			\bigcirc	\circ	\circ	\bigcirc
d)	Cheating					
e)	Profanity					
f)	Vandalism			\circ		
-	continued) hat degree is each of the fol	lowing a pro	oblem among	eighth-grade s	students in vo	ur school?
10 11	mat degree is each of the fol	iowing a pro		orginii-grado (students in yo	ui sonoor.
				Click one circle	for each line.	
			Not a problem	Minor problem	Moderate problem	Serious problem
g)	Theft					
h)	Intimidation or verbal abuse amor (including texting, emailing, etc.)	ng students				
i)	Physical injury to students					
j)	Intimidation or verbal abuse of tea staff (including texting, emailing, e					
k)	Physical injury to teachers or staff					
18. 7	To what degree is each of the	following a	problem amo	ng teachers ir	n your school	?
		,	Click one cir	cle for each line.		
		Not a problem	Minor problem	Moderate problem	Serious problem	
a)	Arriving late or leaving early	\circ		\circ	\circ	
b)	Absenteeism					
	Principal's Experience an	d Education	n			
19. E	By the end of this school yea	ır, how many	y years will yo	u have been a	principal alto	gether?
	years					
Pleas	e round to the nearest whole numb	er.				
20. E	By the end of this school yea	ır, how many	years will yo	u have been a	principal at th	nis school?
	years					
Pleas	e round to the nearest whole numbe	er.				
21. V	What is the highest level of fo	ormal educa	tion you have	completed?		

Click	one circle only.						
	Did not complete Bachelor's c	legree (4-year colleç	ge program)				
	Bachelor's degree (4-year college program)						
	Master's degree or profession	al degree (MD, DDS	S, lawyer, minister)			
	Doctorate (Ph.D., Ed.D.)						
22. C	o you hold the following o	qualifications or	credentials ir	n <u>educationa</u>	<u>l leadership</u> ?		
				Click one ci	rcle for each line	<u>. </u>	
				Yes	No		
a)	Principal Certification						
b)	Master's degree or professional degree (MD, DDS, lawyer, minister)				\circ		
c)	Doctorate (Ph.D., Ed.D.)				\circ		
	COVID-19 Pandemic						
	or how long was your sch lemic?	ool fully closed	for in-person	instruction I	because of th	e COVID-19	
			Click o	ne circle for eac	h line.		
		The school did not fully close	Less than 1 month	1 to 3 months	4 to 6 months	More than 6 months	
a)	2019 – 2020 school year						
b)	2020 – 2021 school year		0		\circ	0	
c)	2021 – 2022 school year		\circ		\circ	0	
d)	2022 – 2023 school year						
Thanl	k you for the thought, time, and	effort you have pu	t into completino	g this questionr	naire.		
To sul	omit your completed questionnaire	e, please click the "F	inish" button.				

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TIMSS 2023 - Grade 4 - Data Collection - English (United States)

You are logged in as: 99999999 Logout

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 more than 60 countries in order to help improve teaching and learning worldwide.

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

It is estimated that you will need approximately 35 minutes to complete this questionnaire. We appreciate the time and effort

o confirm ext

that this takes and thank you for your cooperation and contribution.
To begin the questionnaire, please click on the "Next" button. When navigating through the questionnaire, make sure to 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." For some questions, you will be automatically taken to the appropriate nequestion based on your response.
When you have completed the questionnaire, please click on the "Finish" button at the end of the last question in order submit your answers.
Thank you.
About You
1. What year did you start teaching?
Please type in a year.
2. By the end of this school year, how many years will you have been teaching altogether?
years
Please round to the nearest whole number.
3. Which of these describes you?
Click one circle only.
○ Female

	Another gender					
4. Ho	ow old are you?					
Click o	one circle only.					
\bigcirc	Under 25					
\bigcirc	25–29					
	30–39					
	40–49					
	50–59					
	60 or more					
5. WI	hat is the <u>highest</u> level of for	mal education	n you have con	npleted?		
Click o	one circle only.					
	Did not complete high school					
	High school graduate					
	(If you have not completed any	y college, you wi	II be directed to C	17)		
\circ	Associate's degree (2-year colle	ge program)				
	Bachelor's degree (4-year college	e program)				
\circ	Master's degree or professional	degree (MD, DDS	S, lawyer, minister)			
	Doctorate (Ph.D., Ed.D.)					
6. A.	During your college or unive	ersity educati	on, what was y	our <u>major o</u>	<u>r main</u> area(s)) of study?
		Click one circl	le for each line.			
		Yes	No			
a)	Education—Primary/Elementary					
b)	Education—Secondary		\circ			
c)	Mathematics	\circ	\circ			
d)	Science		\circ			
e)	English					
f)	Other					

	your major or main area of st wing?	udy was educ	ation, did y	ou have a spec	cialization ir	n any of the
		Click one circle	for each line.			
		Yes	No			
a)	Mathematics					
b)	Science					
c)	Language/reading					
d)	Other subject	\circ	\circ			
	School Emphasis on Acad	emic Succes	S			
7. Hc	ow would you characterize ea	ch of the follo	wing within	your school?		
			Click	one circle for each	ı line.	
		Very high	High	Medium	Low	Very low
a)	Teachers' understanding of the school's curricular goals	0				\circ
b)	Teachers' degree of success in implementing the school's curriculum		0	0		0
c)	Teachers' expectations for student achievement	0				\circ
d)	Teachers' ability to inspire students	0				\circ
e)	Parental involvement in school activities	\circ				\circ
f)	Parental commitment to ensure that students are ready to learn	0	0	0		0
	ontinued) would you characterize each	of the followi	ng within yo	our school?		
			Click	one circle for each	n line.	
		Very high	High	Medium	Low	Very low
g)	Parental expectations for student achievement		0	0		0

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

e)	I am proud of the work I do				
f)	I feel appreciated as a teacher	\circ			\circ
g)	I enjoy the challenges of teaching				
10. H	low much do you agree or disagree with	the stateme	nts below?		
			Click one 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	\circ			\circ
b)	I have too much material to cover in class				
c)	I have too many teaching hours				
d)	I need more time to prepare for class	\circ			\circ
e)	I need more time to assist individual students	\circ			\circ
f)	I feel too much pressure from parents	\circ			\bigcirc
g)	I have difficulty keeping up with all of the changes to the curriculum	0	0	0	0
h)	I have too many administrative tasks				\bigcirc
	About Teaching the TIMSS Class				
11. <i>A</i>	A. How many students are in this class?				
	students				
Туре	in the number.				
В. Н	ow many of the students in #11A are in f	ourth grade?	•		
	fourth-grade students				
Туре	in the number.				
12. ł	low many fourth-grade students experie	nce difficulti	es understan	ding <u>spoken</u> E	nglish?
	students in this class				
Туре	in the number.				
13. H	low often do you do the following in tead	ching this cla	iss?		
			Click one d	circle for each line.	

		Every or almost every lesson	About half the lessons	Some lessons	Neve
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	0	0
d)	Ask students to complete challenging exercises that require them to go beyond the instruction		\circ	0	
e)	Encourage classroom discussions among students		\circ	\circ	
f)	Link new content to students' prior knowledge			\circ	
g)	Ask students to decide their own problem solving procedures		\circ	0	
			CIICK	one circle for eacl	i iii ie.
			,		
			Not at all	Some	A lot
a)	Students lacking prerequisite knowledge or skills		Not at all	Some	A lot
a) b)	Students lacking prerequisite knowledge or skills Students suffering from lack of basic nutrition		Not at all	Some	A lot
			Not at all	Some	A lot
b)	Students suffering from lack of basic nutrition		Not at all	Some	A lot
b)	Students suffering from lack of basic nutrition Students suffering from not enough sleep		Not at all	Some	A lot
b) c) d)	Students suffering from lack of basic nutrition Students suffering from not enough sleep Students absent from class		Not at all	Some	A lot
b) c) d) e)	Students suffering from lack of basic nutrition Students suffering from not enough sleep Students absent from class Disruptive students		Not at all	Some	A lot
b) c) d) e) f)	Students suffering from lack of basic nutrition Students suffering from not enough sleep Students absent from class Disruptive students Uninterested students	airment	Not at all	Some	A lot
b) c) d) e) f)	Students suffering from lack of basic nutrition Students suffering from not enough sleep Students absent from class Disruptive students Uninterested students Distracted students		Not at all	Some	A lot

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

		Click one 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			\bigcirc		
c)	Memorize rules, procedures, and facts			\bigcirc	\circ	
d)	Practice procedures on their own			\circ		
e)	Apply what they have learned to new problem situations on their own	0		\circ	\circ	
f)	Work problems together in the whole class with direct guidance from me	\circ		\circ	\circ	
g)	Work in mixed ability groups			\circ		
h)	Work in same ability groups			\circ		
	Using Calculators and Digital Devices TIMSS Class	for Teachii	ng Mathematic	s to the		
17. A	re students in this class permitted to use	calculators	s during mathe	matics lessor	ns?	
Click c	one circle only.					
	Yes, with unrestricted use					
	Yes, with restricted use					
	No					
	. Do the students in this class have digitation the students in this class have digitation to the students are the students.	-		outers, tablets	, or	
Click c	one circle only.					
	Yes					
	No					
18. B	. What access do the students have to di	gital device	s?			

Click one circle for each line.

			Yes	No	
a)	The class has digital devices for each stude	ent to use			
b)	The class has digital devices that students	can share			
c)	The school has digital devices that the class	s can use sometim	es		
d)	Students bring their own digital devices				
). H	ow often do you have students use	digital devices	during mathem	atics instruct	ion?
	one circle only.	g	g		
	At least once a week				
	Once or twice a month				
	A few times a year				
	Never or almost never				
			Click one circle		
		At least once a week	Click one circle Once or twice a month	A few times a year	Never or almost never
a)	Practice problems and procedures		Once or twice	A few times	
a) b)	Practice problems and procedures Solve extended or contextualized problems		Once or twice	A few times	
,	Solve extended or contextualized		Once or twice	A few times	
b)	Solve extended or contextualized problems Create graphs, tables, or other data		Once or twice	A few times	
b) c)	Solve extended or contextualized problems Create graphs, tables, or other data displays Play games involving mathematics		Once or twice	A few times	
b) c) d)	Solve extended or contextualized problems Create graphs, tables, or other data displays Play games involving mathematics calculations or concepts Read the textbook or watch instructional		Once or twice	A few times	
b) c) d) f)	Solve extended or contextualized problems Create graphs, tables, or other data displays Play games involving mathematics calculations or concepts Read the textbook or watch instructional videos	a week	Once or twice a month	A few times a year	almost never
b) c) d) e)	Solve extended or contextualized problems Create graphs, tables, or other data displays Play games involving mathematics calculations or concepts Read the textbook or watch instructional videos Take a test	a week	Once or twice a month	A few times a year	almost never

N N - 4	an analysis and a second for the latest and a second			
) Not	enough access to digital devices			
Kee	ping students on task when the class is using digital devices			
Lacl	k of technical support from the school			
Ma	thematics Topics Taught to the TIMSS Class			
	ollowing list includes topics addressed by the that best describes when each topic is taught			ose the
ı have	was in the curriculum before fourth grade, cho taught a topic this year, choose "Mostly taugh riculum for this year or you have not yet taugh	t this year." If a it a topic, choos	topic is not ir e "Not yet tau	the fourt
		Click 0	ne circle for each	iirie.
Numbe	er	Mostly taught before this year	Mostly taught this year	Not yet taught
Rec	ognize place value and order whole numbers	\circ	\circ	
Add	and subtract up to 4-digit numbers	\circ	\circ	
Mult	tiply up to 3-digit by 1-digit and 2-digit by 2-digit numbers	0	\circ	
Divi	de up to 3-digit by 1-digit numbers	\circ	\circ	
Solv	ve problems with odd/even numbers, multiples, or factors	\circ	\circ	
Rou	nd or make estimations with whole numbers	\circ	\circ	
Find	I the missing number or operation in a number sentence	0	\circ	
Exte patte	end a number pattern or find the missing number in a ern	\circ	\circ	0
Rep	resent, compare, and order fractions		\circ	
Add	and subtract simple fractions	\bigcirc	\circ	
Rep plac	resent, compare, and order decimals up to two decimal	\circ	\bigcirc	

learning

If a topic 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 fourthgrade curriculum for this year or you have not yet taught a topic, choose "Not yet taught."

В. М	easurement and Geometry		Mostly taught before this yea	taught this	Not yet taught
a)	Measure, estimate, add, and subtract lengths				
b)	Add and subtract mass, volume, or time in appropriate	units			
c)	Find perimeters of polygons				
d)	Find areas of shapes covered with squares or volumes cubes	of shapes filled v	with	0	0
e)	Recognize and draw parallel and perpendicular lines				
f)	Compare and draw angles				
g)	Describe and draw common two-dimensional shapes (equadrilaterals)	e.g., circles, trian	gles,	0	0
h)	Describe and draw common three-dimensional shapes rectangular solids, cones, cylinders, spheres)	(e.g., cubes,	0	0	
		Click o	one circle for each	line.	
C. D		lostly taught fore this year	Mostly taught this year	Not yet taught	
a)	Read and interpret data displays	\circ			
b)	Create or complete data displays	\circ			
c)	Draw conclusions from two or more data sources	\circ			
21. A	Mathematics Homework for the TIMSS CI		rk to the stude	ents in this cla	ss?
Click o	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				

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

			Click one circle for each line.			
		Alway almost a		netimes	Never or almost nev	
a)	Correct assignments and give feedback to	students)	\circ		
b)	Discuss the homework in class	C)	\circ		
c)	Monitor whether or not the homework was	completed)			
	Mathematics Assessment of the	TIMSS Class				
	low much importance do you place nematics?	on these strategi	es to asses	s studen	ts' learning	j in
		CI	ick one circle f	or each line) .	
		A lot	Some	e	None	
a)	Observing students as they work					
b)	Asking students to answer questions during	g class				
c)	Short, regular written assessments					
d)	Longer tests (e.g., unit tests or exams)				\circ	
e)	Long-term projects				\circ	
	Professional Development to Te	ach Mathematics				
23.						
		A. In the past two you particip professional deve any of the fol	ated in elopment in	profe	. Do you nee essional deve ny of the foll	lopment in
		Click one circle fo	or each line.	Click	one circle fo	r each line.
		Yes	No	١	/es	No
a)	Mathematics content	0				
b)	Mathematics pedagogy/instruction	\circ				
c)	Mathematics curriculum	\circ				
d)	Integrating technology into mathematics	Appendix C – Page 30			0	

	instruction				
e)	Improving students' critical thinking or problem solving skills	0	0	0	
)	Mathematics assessment	\bigcirc			
)	Addressing individual students' needs	\circ	\circ		
	Teaching Science to the TIMSS Class				
	Is science taught mainly as a separate s tudents in this class?	ubject (i.e.,	not integrated	with other su	ubjects) to
k c	one circle only.				
	Yes				
	No				
eas	n the number of minutes per week. se convert the number of hours into minutes. In teaching science to the students in this	class, how	often do you a	sk them to do) the
<i>leas</i> . Ir		class, how	·	sk them to do ele for each line.	the
eas Ir	se convert the number of hours into minutes. In teaching science to the students in this	Every or almost every lesson	·		o the Never
eas Ir	se convert the number of hours into minutes. In teaching science to the students in this	Every or almost every	Click one circ	ele for each line.	
as Ir	se convert the number of hours into minutes. In teaching science to the students in this owing?	Every or almost every lesson	Click one circ	ele for each line.	
as Ir	teaching science to the students in this wing? Listen to me explain new science content Observe natural phenomena such as the weather	Every or almost every lesson	Click one circ	ele for each line.	
as Ir	Listen to me explain new science content Observe natural phenomena such as the weather or a plant growing and describe what they see Watch me demonstrate an experiment or	Every or almost every lesson	Click one circ	ele for each line.	
as Ir	Listen to me explain new science content Observe natural phenomena such as the weather or a plant growing and describe what they see Watch me demonstrate an experiment or investigation	Every or almost every lesson	Click one circ	ele for each line.	
Ir Iov	Listen to me explain new science content Observe natural phenomena such as the weather or a plant growing and describe what they see Watch me demonstrate an experiment or investigation Read their textbooks or other resource materials	Every or almost every lesson	Click one circ	ele for each line.	
eas Ir	Listen to me explain new science content Observe natural phenomena such as the weather or a plant growing and describe what they see Watch me demonstrate an experiment or investigation Read their textbooks or other resource materials Memorize facts and principles	Every or almost every lesson	Click one circ	ele for each line.	

26. How much emphasis do you place on the following when teaching science to students in this class?

		_	Click or	ne circle for each	line.
			A lot	Some	None
a)	Encouraging students to ask questions about scientifi phenomena	С		\circ	
b)	Having students predict the outcomes of experiments investigations	or		\circ	
c)	Having students create representations (e.g., models to explain scientific phenomena	, graphs)		\circ	
d)	Having students use scientific concepts to explain phe	enomena		\circ	
e)	Having students conduct experiments (hands-on or vi	rtually)			
27. F	low often do you do the following when tea	ching this cl	ass?		
			Click one circ	le for each line.	
		At least once a week	Once or twice a month	A few times a year	Never or almost never
a)	Develop students' positive attitudes toward the natural environment		0		
b)	Encourage students to use fewer resources (e.g., water, energy)		0		
c)	Discuss how student actions in and outside of school can help the natural environment		0		
d)	Discuss environmental issues (e.g., climate, endangered animals)	0	0	0	
28. C	Oo you do these things to teach students ab	out environi	mental issues	and sustain	ability?
			,	Click one circle	e for each line.
				Yes	No
a)	Take students to visit natural areas (e.g., a pond or m	eadow)		\circ	
b)	Have students participate in environmentally responsitrash)	ible activities (e.	g., pick up	0	
c)	Have students do research or projects on a particular pollution, climate)	environmental t	opic (e.g.,	0	0

d)	Provide opportunities for students to participate in outdoor environmeducation programs outside of school	nental		\circ
	ow much do you agree or disagree that education ab priority for schools?	out environm	ental sustaina	bility should
Click o	ne circle only.			
	Agree a lot			
	Agree a little			
	Disagree a little			
	Disagree a lot			
	Using Digital Devices for Teaching Science to the	TIMSS Class		
	Do the students in this class have digital devices (ir phones) available to use during science lessons?	cluding comp	outers, tablets	, or
Click o	ne circle only.			
	Yes			
	No			
30. B.	What access do the students have to digital devices	?		
		Click one circle	e for each line.	
		Click one circle	e for each line.	
a)	The class has digital devices for each student to use	,		
a) b)	The class has digital devices for each student to use The class has digital devices that students can share	,		
·		,		
b)	The class has digital devices that students can share	,		
b) c) d)	The class has digital devices that students can share The school has digital devices that the class can use sometimes	Yes	No	
b) c) d) C. Ho	The class has digital devices that students can share The school has digital devices that the class can use sometimes Students bring their own digital devices	Yes	No	
b) c) d) C. Ho	The class has digital devices that students can share The school has digital devices that the class can use sometimes Students bring their own digital devices w often do you have students use digital devices dur	Yes	No	
b) c) d) C. Ho	The class has digital devices that students can share The school has digital devices that the class can use sometimes Students bring their own digital devices w often do you have students use digital devices during circle only.	Yes	No	
b) c) d) C. Ho	The class has digital devices that students can share The school has digital devices that the class can use sometimes Students bring their own digital devices w often do you have students use digital devices during circle only. At least once a week	Yes	No	
b) c) d) C. Ho	The class has digital devices that students can share The school has digital devices that the class can use sometimes Students bring their own digital devices w often do you have students use digital devices during circle only. At least once a week Once or twice a month	Yes	No	

		At least once a week	Once or twice a month	A few times a year	Never or almost never
a)	Solve extended or contextualized problems			0	
b)	Create graphs, tables, or other data displays			0	0
c)	Play games involving science concepts			0	0
d)	Conduct virtual experiments or other simulations			0	0
e)	Read the textbook or watch instructional videos			0	0
f)	Take a test				
			Clica	k one circle for each	line.
			Not at all	Somewhat	A lot
a)	Not knowing how to use digital devices learning	to improve student		0	\circ
b)	Not enough access to digital devices		\circ	\bigcirc	\circ
c)	Keeping students on task when the class	ss is using digital dev	ices		0
d)	Lack of technical support from the scho	ool	\circ	\circ	\circ
	Science Topics Taught to the	TIMSS Class			
	he following list includes topics esponse that best describes wh	•	•		
ear.	opic or concept was in the currion. If you have taught a topic this h-grade curriculum for this year	year, choose "M	ostly taught this	year." If a topic	is not in th
				Click one circle for e	ach line.
A. L	ife Science		Most taug before yea	ht taught this this year	Not yet taught

a)	Basic differences between living and nonliving things		\circ	
b)	Defining characteristics of major groups of living things		\circ	
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
e)	Inherited characteristics of living things		\circ	
f)	How living things survive in their environments (e.g., physical characteristics, behaviors)			0
g)	How human actions impact the environment		\circ	
h)	Common ecosystems and their organisms (e.g., forest, desert)	\circ	\circ	
i)	Interpreting simple food chains		\circ	
j)	Competition within ecosystems		\bigcirc	
	Ways for humans to maintain good health and avoid illness			
2. (chooles the last	continued) ose the response that best describes when each topic o	de, choose "N	lostly taught	before th
2. (chooled a tear	continued) ose the response that best describes when each topic o s. opic or concept was in the curriculum before fourth gra	de, choose "N lught this year	lostly taught :" If a topic i noose "Not y	before the s not in the set taught
thoo lass f a t ear	continued) ose the response that best describes when each topic os. opic or concept was in the curriculum before fourth gra "If you have taught a topic this year, choose "Mostly ta	de, choose "N lught this year	lostly taught :" If a topic i	before the s not in the set taught
2. (chooles a tear	continued) ose the response that best describes when each topic os. opic or concept was in the curriculum before fourth gra "If you have taught a topic this year, choose "Mostly ta	de, choose "N lught this year	lostly taught :" If a topic i noose "Not y	before the s not in the set taught
2. (choolessed) a tear	continued) ose the response that best describes when each topic of s. opic or concept was in the curriculum before fourth gra." If you have taught a topic this year, choose "Mostly takh-grade curriculum for this year or you have not yet tau	de, choose "Naught this year aght a topic, check of the Mostly taught before this	lostly taught "If a topic inoose "Not y ne circle for each Mostly taught	before the set taught with line.
2. ((hooas: a tear our!	continued) ose the response that best describes when each topic of s. opic or concept was in the curriculum before fourth grad." If you have taught a topic this year, choose "Mostly takh-grade curriculum for this year or you have not yet taught." Physical Science	de, choose "Naught this year aght a topic, check of the Mostly taught before this	lostly taught "If a topic inoose "Not y ne circle for each Mostly taught	before the set taught with line.
2. ((hoo as: a t ear burf	continued) ose the response that best describes when each topic of s. opic or concept was in the curriculum before fourth grad." If you have taught a topic this year, choose "Mostly takh-grade curriculum for this year or you have not yet taught." Physical Science Solids, liquids, gases, and how their shapes and volumes differ	de, choose "Naught this year aght a topic, check of the Mostly taught before this	lostly taught "If a topic inoose "Not y ne circle for each Mostly taught	before the second notion the second notion the second notion to be
2. (chooleas: a tearrourf	continued) ose the response that best describes when each topic of s. opic or concept was in the curriculum before fourth grant." If you have taught a topic this year, choose "Mostly taken-grade curriculum for this year or you have not yet taught-grade curriculum for this year or you have not yet taught-grade solids, liquids, gases, and how their shapes and volumes differ Grouping objects based on their physical properties Examples of mixtures and how they can be separated (e.g.,	de, choose "Naught this year aght a topic, check of the Mostly taught before this	lostly taught "If a topic inoose "Not y ne circle for each Mostly taught	before the second notion the second notion the second notion to be
2. (chooles a tear	continued) ose the response that best describes when each topic of s. opic or concept was in the curriculum before fourth grad." If you have taught a topic this year, choose "Mostly taken-grade curriculum for this year or you have not yet taught and the second	de, choose "Naught this year aght a topic, check of the Mostly taught before this	lostly taught "If a topic inoose "Not y ne circle for each Mostly taught	before the second notion the second notion the second notion to be

32. (continued)
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.		
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	\circ
i)	How light is related to shadows, reflections, and rainbows	\circ	\circ	\circ
j)	How vibrations are related to sound	\bigcirc	\circ	
k)	Movement of heat from hotter to cooler objects	\bigcirc	\circ	
l)	Simple electrical circuits	\bigcirc	\circ	
m)	How motion is affected by forces (e.g., gravity, pushing, pulling, friction)	0		
n) 32. (e	Examples of simple machines (e.g., levers, ramps)	0	0	

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 C. Earth Science this year taught year a) Composition of Earth's surface (i.e., land, fresh water, salt water) b) Earth's resources and their use by humans c) Renewable and nonrenewable resources How wind and water change Earth's surface over time d) What fossils can show about Earth's history e)

f)	How weather changes day to day and with geographic	location		
g)	Effects of increasing temperatures on Earth		\circ	
h)	Composition of the Solar System (the Sun, Earth, Moo planets)	n, and other	0	0
i)	How the Moon's movement around the Earth changes appearance	its	0	\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	0	0
	Science Homework for the TIMSS Class			
33. A	a. How often do you usually assign science h	nomework to th	e students in	this class?
Click o	one circle only.			
	I do not assign science homework			
	Less than once a week			
	1 or 2 times a week			
0	1 or 2 times a week 3 or 4 times a week			
0	3 or 4 times a week			
33. B		e science home	work assignr	ments for this
33. B	3 or 4 times a week Every day		_	
33. B	3 or 4 times a week Every day		work assignr one circle for eac	
33. B	3 or 4 times a week Every day		_	
333. B	3 or 4 times a week Every day	Click o	one circle for eac	h line. Never or
	3 or 4 times a week Every day 3. How often do you do the following with the	Click o	one circle for eac	h line. Never or
a)	3 or 4 times a week Every day 3. How often do you do the following with the	Click o	one circle for eac	h line. Never or
a) b)	3 or 4 times a week Every day 5. How often do you do the following with the Correct assignments and give feedback to students Discuss the homework in class	Always or almost always	one circle for eac	h line. Never or
a) b) c)	3 or 4 times a week Every day 5. How often do you do the following with the Correct assignments and give feedback to students Discuss the homework in class Monitor whether or not the homework was completed Science Assessment of the TIMSS Class low much importance do you place on these	Always or almost always	Sometimes	Never or almost neve
a) b) c) 34. H	3 or 4 times a week Every day 5. How often do you do the following with the Correct assignments and give feedback to students Discuss the homework in class Monitor whether or not the homework was completed Science Assessment of the TIMSS Class low much importance do you place on these	Always or almost always	Sometimes	Never or almost neve
a) b) c) 34. H	3 or 4 times a week Every day 5. How often do you do the following with the Correct assignments and give feedback to students Discuss the homework in class Monitor whether or not the homework was completed Science Assessment of the TIMSS Class low much importance do you place on these	Always or almost always	Sometimes ssess studer	Never or almost neve

b)	Asking students to answer questions during cl	ass				
c)	Short, regular written assessments	\circ		0		
d)	Longer tests (e.g., unit tests or exams)	\circ		0		
e)	Long-term projects	\circ		0		
	Professional Development to Teac	h Science				
35.						
		A. In the past to you partic professional do any of the f	ipated in evelopment in	B. Do you need future professional development in any of the following?		
		Click one circle	e for each line.	Click one circle	e for each line.	
		Yes	No	Yes	No	
a)	Science content		\circ	\circ		
b)	Science pedagogy/instruction		\circ	\circ		
c)	Science curriculum		\circ	\circ		
d)	Integrating technology into science instruction		0	0	0	
e)	Improving students' critical thinking or inquiry skills		0	0		
f)	Science assessment		\circ	\circ		
g)	Addressing individual students' needs		\circ	\circ		
h)	Integrating science with other subjects (e.g., mathematics, technology)		0	0		
i)	Integrating environmentalism and sustainability into science instruction		\circ	\circ		
Thank	you for the thought, time, and effort you have	ve put into comp	oleting this question	onnaire.		
To sub	mit your completed questionnaire, please click	the "Finish" butto	n.			

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TIMSS 2023 - Grade 8 - Data Collection - English (United States)

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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 more than 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.

It is estimated that you will need approximately 35 minutes to complete this questionnaire. We appreciate the time and effort that this takes and thank you for your cooperation and contribution.

To begin the guestionnaire, please click on the "Next" button. When navigating through the guestionnaire, make sure to confirm ext

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." For some questions, you will be automatically taken to the appropriate no question based on your response.
When you have completed the questionnaire, please click on the "Finish" button at the end of the last question in order submit your answers.
Thank you.
About You
1. What year did you start teaching?
Please type in a year.
2. By the end of this school year, how many years will you have been teaching altogether?
years
Please round to the nearest whole number.
3. Which of these describes you?
Click one circle only.
○ Female

	Male					
	Another gender					
4. Ho	w old are you?					
Click o	one circle only.					
	Under 25					
	25–29					
	30–39					
	40–49					
	50–59					
	60 or more					
5. Wł	nat is the <u>highest</u> level of fo	ormal education	n you have cor	npleted?		
Click c	one circle only.					
	Did not complete high school					
	High school graduate					
	(If you have not completed a	ny college, you wi	II be directed to C	17)		
	Associate's degree (2-year coll	ege program)				
	Bachelor's degree (4-year colle	ege program)				
	Master's degree or professiona	al degree (MD, DDS	, lawyer, minister)			
	Doctorate (Ph.D., Ed.D.)					
6. Du	ring your college or univer	sity education,	what was you	r <u>major or ma</u>	<u>iin</u> area(s) of st	udy?
		Click one circle	e for each line.			
		F				
		Yes	No			
a)	Mathematics					
b)	Biology					
c)	Physics					
d)	Chemistry					
e)	Earth Science					
f)	Education–Mathematics	Append	ix C – Page 40			

)								
	Education-Science							
	Education–General	\circ						
	Other	\circ						
	School Emphasis on Acad	emic Succes	s					
ю	w would you characterize ea	ch of the follo	wing within	your school?				
		Click one circle for each line.						
		Very high	High	Medium	Low	Very low		
	Teachers' understanding of the school's curricular goals							
	Teachers' degree of success in implementing the school's curriculum		0	0		0		
	Teachers' expectations for student achievement		\circ					
	Teachers' ability to inspire students		0	0		0		
	Parental involvement in school activities	0						
		0	0	0	0	0		
	activities Parental commitment to ensure that students are ready to learn ntinued)	of the followi	ng within w	our school?	0			
	activities Parental commitment to ensure that students are ready to learn	of the followi	ng within y	our school?				
co	activities Parental commitment to ensure that students are ready to learn ntinued)	of the followi		our school? one circle for each	n line.			
	activities Parental commitment to ensure that students are ready to learn ntinued)	of the followi			n line.	Very low		
	activities Parental commitment to ensure that students are ready to learn ntinued)		Click	one circle for each		Very low		
	Parental commitment to ensure that students are ready to learn intinued) would you characterize each	Very high	<i>Click</i> High	one circle for each	Low	Very low		
	Parental commitment to ensure that students are ready to learn ntinued) would you characterize each Parental expectations for student achievement Parental support for student	Very high	<i>Click</i> High	one circle for each	Low	Very low		
	Parental commitment to ensure that students are ready to learn intinued) would you characterize each Parental expectations for student achievement Parental support for student achievement Students' desire to do well in	Very high	<i>Click</i> High	one circle for each	Low	Very low		

School Environment

8. How much do you agree or disagree with the following statements about your current school?

		Click one circle for each line.			
		Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	I feel safe at this school		\circ		
b)	This school's security policies and practices are sufficient	\circ			
c)	The students behave in an orderly manner		\circ		
d)	The students are respectful of the teachers		\circ		
e)	The students respect school property		\circ		
f)	This school has clear rules about student conduct	\circ	\circ		
	This school's rules are enforced in a fair and		\circ	\circ	0
g) Э. Н о	consistent manner About Being a Teacher ow often do you have these feelings ab	out being a te		lo for oooh line	
	About Being a Teacher	out being a te		le for each line.	
	About Being a Teacher	oout being a te		le for each line. Sometimes	Never or almost never
	About Being a Teacher		Click one circl		
). Но	About Being a Teacher ow often do you have these feelings ab		Click one circl		
а)	About Being a Teacher ow often do you have these feelings ab		Click one circl		
a) b)	About Being a Teacher ow often do you have these feelings ab		Click one circl		
a) b) c)	About Being a Teacher ow often do you have these feelings ab		Click one circl		
a) b) c)	About Being a Teacher ow often do you have these feelings about a second of the second		Click one circl		
a) b) c) d)	About Being a Teacher ow often do you have these feelings about a content with my profession as a teacher I find my work full of meaning and purpose I am enthusiastic about my job My work inspires me I am proud of the work I do		Click one circl		
a) b) c) f) g)	About Being a Teacher ow often do you have these feelings about a second of the work full of meaning and purpose I am enthusiastic about my job My work inspires me I am proud of the work I do I feel appreciated as a teacher	Very often	Often		

		Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	There are too many students in the classes	\circ	\circ	\circ	\circ
b)	I have too much material to cover in class		\circ	\circ	\circ
c)	I have too many teaching hours			\bigcirc	\circ
d)	I need more time to prepare for class			\circ	\bigcirc
e)	I need more time to assist individual students		\circ	\circ	\circ
f)	I feel too much pressure from parents			\circ	\circ
g)	I have difficulty keeping up with all of the changes to the curriculum		\circ	\circ	0
h)	I have too many administrative tasks	\circ	\circ	\circ	\circ
	About Teaching the TIMSS Class				
11. F	low many students are in this class?				
	students				
	low many eighth-grade students experience	e difficulti	es understand	ing <u>spoken</u> E	nglish?
	students in this class in the number. How often do you do the following in teaching		ss?	ing <u>spoken</u> E	nglish?
	students in this class in the number.		ss?		nglish?
	students in this class in the number.	Every or almost every	SS? Click one cir About half	rcle for each line. Some	
13. F	students in this class in the number. How often do you do the following in teaching	Every or almost every	SS? Click one cir About half	rcle for each line. Some	
13. H	students in this class in the number. How often do you do the following in teaching Relate the lesson to students' daily lives	Every or almost every	SS? Click one cir About half	rcle for each line. Some	
a) b)	students in this class in the number. How often do you do the following in teaching Relate the lesson to students' daily lives Ask students to explain their answers Communicate goals or objectives for the lesson to	Every or almost every	SS? Click one cir About half	rcle for each line. Some	

f)	Link new content to students' prior knowledge					
	Ask students to decide their own problem solving procedures	0	0	0		
I	n your view, to what extent do the followin	g limit how	you teach this	s class?		
			Click one circle for each line.			
			Not at all	Some	A lot	
)	Students lacking prerequisite knowledge or skills			\circ		
)	Students suffering from lack of basic nutrition			\circ		
)	Students suffering from not enough sleep					
)	Students absent from class			\circ		
)	Disruptive students			\circ	\circ	
)	Uninterested students		\circ	\circ		
)	Distracted students			\circ		
)	Students with mental, emotional, or psychological in	npairment				
	Students with difficulties understanding the languag instruction	e of	0	0		
5. I	Teaching Mathematics to the TIMSS CI		ing mathemati	cs to the stud	ents in th	
as	minutes per week in the number of minutes per week.		•			
ea	se convert the number of hours into minutes. n teaching mathematics to this class, how	often do v	ou ask student	ts to do the fo	llowing?	
		,		ele for each line.		
		Every or almost every lesson	About half the lessons	Some lessons	Never	
1)	Listen to me explain new mathematics content			\circ		
)	Listen to me explain how to solve problems			\circ		
c)	Memorize rules, procedures, and facts					

d)	Practice procedures on their own	\circ			
e)	Apply what they have learned to new problem situations on their own		0	0	
f)	Work problems together in the whole class with direct guidance from me		0	0	
g)	Work in mixed ability groups	\circ	\circ	0	
h)	Work in same ability groups	\bigcirc			
17. W	hich best describes the mathematics course ents?	you are tead	ching to the cl	ass with the T	IMSS
Click c	ne circle only.				
	Basic or general eighth-grade math (not algebra or pre	e-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)				
	Algebra I (second year of two-year Algebra I course)				
	Geometry				
	Algebra II				
	Integrated or sequential math				
	Other math class				
	Using Calculators and Digital Devices for TIMSS Class	Teaching Ma	athematics to	the	
18. A	re students in this class permitted to use cal	culators duri	ng mathemati	cs lessons?	
Click c	ne circle only.				
	Yes, with unrestricted use				
	Yes, with restricted use				
	No				
	. Do the students in this class have digital de tphones) available to use during mathematic		ling computer	s, tablets, or	
Click c	ne circle only.				
	Yes				

19. B	. What access do the students have	e to digital devi	ices?		
			Click one cir	rcle for each line.	-
			Yes	No	
a)	The class has digital devices for each stude	ent to use		\circ	
b)	The class has digital devices that students	can share		\circ	
c)	The school has digital devices that the clas	s can use sometime	es	\circ	
d)	Students bring their own digital devices			\circ	
C. Ho	ow often do you have students use	digital devices	during mathem	natics instruct	tion?
Click o	one 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 student ematics activities?	s in your class	to use digital o	levices to do	these
			Click one 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		\circ
c)	Create graphs, tables, or other data displays		0		0
d)	Play games involving mathematics calculations or concepts				0
e)	Read the textbook or watch instructional videos		0		0
f)	Take a test				
	ow much do each of these keep youction?	u from incorpo	rating digital de	evices into ma	athematics

No

01:-1	- ! 1 -	£	1-	12
Click one	circie	TOT E	acn	iine

		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	\circ	\circ
d)	Lack of technical support from the school		\circ	\circ
	Mathematics Tonics Tought to the TIMES Class			

Mathematics Topics Taught to the TIMSS Class

21. The following list includes topics addressed by the TIMSS mathematics test. Choose the response that best describes when each topic is taught for students in this class.

If a topic 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 eighthgrade 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 A. Number year this year taught Add and subtract positive and negative numbers a) Find and use factors, multiples, positive powers, or square roots of b) positive whole numbers Compare fractions and decimals c) d) Add, subtract, and multiply with fractions and decimals e) Divide fractions and decimals by a whole number f) Determine proportions and ratios Find percentages and convert between percentages and g) fractions/decimals Click one circle for each line. Mostly taught Mostly before this taught Not yet B. Algebra this year taught year

	Simplify and compare algebraic expressions				
b)	Solve simple linear equations			\bigcirc	
c)	Solve simple linear inequalities			\bigcirc	
d)	Solve simultaneous linear equations (two variables)			\circ	
e)	Write expressions, equations, or inequalities to represent problems				
f)	Interpret linear functions in graphs, tables, or words			\bigcirc	
g)	Interpret simple non-linear functions (e.g., quadratic, cubic) in graph tables, or words	ns,			0
h)	Generalize linear and non-linear pattern relationships or sequences				
you	opic was in the curriculum before eighth grade, choos have taught a topic this year, choose "Mostly taught the le curriculum for this year or you have not yet taught a	nis year." If	a topic is	not in th	e eighth-
			Click one	e circle for e	each line.
			Mostly	Mostly	
C. (Geometry and Measurement		taught before this year	taught this year	Not yet taught
C . (Geometry and Measurement Read and plot points in the Cartesian plane		taught before	taught this	•
			taught before	taught this	•
a)	Read and plot points in the Cartesian plane		taught before	taught this	•
a) b)	Read and plot points in the Cartesian plane Recognize and draw different types of angles and lines Use geometric properties of polygons to calculate lengths, perimeter	er, and	taught before	taught this	•
a) b) c)	Read and plot points in the Cartesian plane Recognize and draw different types of angles and lines Use geometric properties of polygons to calculate lengths, perimeter area (including the Pythagorean Theorem)	er, and	taught before	taught this	•
a)b)c)d)	Read and plot points in the Cartesian plane Recognize and draw different types of angles and lines Use geometric properties of polygons to calculate lengths, perimeter area (including the Pythagorean Theorem) Determine the results of geometric translation, reflection, and rotation	er, and on	taught before	taught this	•
a)b)c)d)e)	Read and plot points in the Cartesian plane Recognize and draw different types of angles and lines Use geometric properties of polygons to calculate lengths, perimeter area (including the Pythagorean Theorem) Determine the results of geometric translation, reflection, and rotation. Use properties of similar and congruent figures	er, and on hapes	taught before	taught this year	taught
a)b)c)d)e)f)	Read and plot points in the Cartesian plane Recognize and draw different types of angles and lines Use geometric properties of polygons to calculate lengths, perimeter area (including the Pythagorean Theorem) Determine the results of geometric translation, reflection, and rotation. Use properties of similar and congruent figures Calculate surface area and volume of common three-dimensional similar and congruent figures.	er, and on hapes	taught before this year	taught this year for each line	taught
a)b)c)d)e)f)	Read and plot points in the Cartesian plane Recognize and draw different types of angles and lines Use geometric properties of polygons to calculate lengths, perimeter area (including the Pythagorean Theorem) Determine the results of geometric translation, reflection, and rotation. Use properties of similar and congruent figures Calculate surface area and volume of common three-dimensional similar and congruent figures.	er, and on hapes Click lostly taught before this	taught before this year one circle formula one circle formula taught before this year	taught this year for each line	taught

c)	Calculate and interpret the mean or median of a data distribution		\circ		
d)	Calculate probabilities of simple and compound even	ts			
	Mathematics Homework for the TIMSS (Class			
2. A	. How often do you usually assign mathem	atics hom	ework to the	students in th	is class?
lick c	ne 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				
2. B ass	. How often do you do the following with th	ne mathem	natics homew	ork assignme	nts for this
a55	f				
			Click	one circle for eac	ch line.
			Always or almost always	Sometimes	Never or almost never
a)	Correct assignments and give feedback to students				\circ
o)	Have students correct their own homework			\circ	\bigcirc
c)	Discuss the homework in class			\circ	\circ
d)	Monitor whether or not the homework was completed			\circ	\circ
∌)	Use the homework to contribute towards students' gramarks	ades or		\circ	0
	Mathematics Assessment of the TIMSS	Class			
	ow much importance do you place on thes ematics?	e strategi	es to assess s	students' lear	ning in
		Cli	ick one circle for (each line.	_
		A lot	Some	None	
a)	Observing students as they work				
b)	Asking students to answer questions during class		\circ		

c)	Short, regular written assessments				
d)	Longer tests (e.g., unit tests or exams)	\circ		\circ	
e)	Long-term projects	\circ			
	Professional Development to Tea	ich Mathemati	cs		
24.					
		A. In the past to you partic professional do any of the f	ipated in evelopment in	professional d	need future evelopment in following?
		Click one circle	e for each line.	Click one circl	e for each line.
		Yes	No	Yes	No
a)	Mathematics content		\circ		
b)	Mathematics pedagogy/instruction		\circ		
c)	Mathematics curriculum		\circ		
d)	Integrating technology into mathematics instruction		0	0	
e)	Improving students' critical thinking or problem solving skills		0	0	
f)	Mathematics assessment		\circ		
g)	Addressing individual students' needs		\circ		
Thank	x you for the thought, time, and effort you h	nave put into comp	oleting this question	onnaire.	
To sub	omit your completed questionnaire, please clic	k the "Finish" butto	n.		

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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 more than 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.

It is estimated that you will need approximately 35 minutes to complete this questionnaire. We appreciate the time and effort that this takes and thank you for your cooperation and contribution.

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 ext

corresponding link in the "Table of Contents." For some questions, you will be automatically taken to the appropriate n question based on your response.
When you have completed the questionnaire, please click on the "Finish" button at the end of the last question in order submit your answers.
Thank you.
About You
1. What year did you start teaching?
Please type in a year.
2. By the end of this school year, how many years will you have been teaching altogether?
years
Please round to the nearest whole number.
3. Which of these describes you?
Click one circle only.

	Male					
	Another gender					
4. Ho	ow old are you?					
Click o	one circle only.					
	Under 25					
	25–29					
	30–39					
	40–49					
	50–59					
	60 or more					
5. WI	hat is the <u>highest</u> level of	formal education	n you have co	mpleted?		
Click o	one circle only.					
	Did not complete high school					
	High school graduate					
	(If you have not completed	any college, you wi	ill be directed to	Q7)		
	Associate's degree (2-year co	ollege program)				
	Bachelor's degree (4-year col	lege program)				
	Master's degree or profession	nal degree (MD, DDS	S, lawyer, minister	l		
	Doctorate (Ph.D., Ed.D.)					
6. Du	iring your college or unive	ersity education	, what was you	ır <u>major or m</u>	ain area(s) of	study?
		Click one circle	e for each line.			
		Yes	No			
a)	Mathematics					
b)	Biology					
c)	Physics		0			
d)	Chemistry		\circ			
e)	Earth Science		\circ			
f)	Education–Mathematics	Append	lix C – Page 52			

)						
	Education-Science					
	Education–General	\circ				
	Other	\circ				
	School Emphasis on Acad	emic Succes	s			
ю	w would you characterize ea	ch of the follo	wing within	your school?		
			Click	one circle for each	ı line.	
		Very high	High	Medium	Low	Very low
	Teachers' understanding of the school's curricular goals					
	Teachers' degree of success in implementing the school's curriculum	0	0	0		0
	Teachers' expectations for student achievement					
	Teachers' ability to inspire students	0	0			
	Parental involvement in school activities				O	
			0	0	0	0
	Parental commitment to ensure that students are ready to learn ntinued)	of the followi	o na within w	our school?	0	
	activities Parental commitment to ensure that students are ready to learn	of the followi	o ng within y	our school?		
	Parental commitment to ensure that students are ready to learn ntinued)	of the followi		our school?	n line.	
	Parental commitment to ensure that students are ready to learn ntinued)	of the followi			n line.	Very low
	Parental commitment to ensure that students are ready to learn ntinued)		Click	one circle for each		Very low
	Parental commitment to ensure that students are ready to learn ntinued) would you characterize each	Very high	<i>Click</i> High	one circle for each	Low	Very low
	Parental commitment to ensure that students are ready to learn ntinued) would you characterize each Parental expectations for student achievement Parental support for student	Very high	<i>Click</i> High	one circle for each	Low	Very low
	Parental commitment to ensure that students are ready to learn ntinued) would you characterize each Parental expectations for student achievement Parental support for student achievement Students' desire to do well in	Very high	<i>Click</i> High	one circle for each	Low	Very low

School Environment

8. How much do you agree or disagree with the following statements about your current school?

			Click one cir	cle for each line.	
		Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	I feel safe at this school		\circ		
b)	This school's security policies and practices are sufficient	\circ	\circ		
c)	The students behave in an orderly manner		\circ		\circ
d)	The students are respectful of the teachers		\circ		\circ
e)	The students respect school property		\circ		
f)	This school has clear rules about student conduct	\circ	\circ		
	This school's rules are enforced in a fair and		\circ	\circ	0
g) Э. Н о	consistent manner About Being a Teacher ow often do you have these feelings ab	out being a te		lo for oach line	
	About Being a Teacher	out being a te		le for each line.	
	About Being a Teacher	oout being a te		le for each line. Sometimes	Never or almost never
	About Being a Teacher		Click one circl		
). Но	About Being a Teacher ow often do you have these feelings ab		Click one circl		
а)	About Being a Teacher ow often do you have these feelings ab		Click one circl		
a) b)	About Being a Teacher ow often do you have these feelings ab		Click one circl		
a) b) c)	About Being a Teacher ow often do you have these feelings ab I am content with my profession as a teacher I find my work full of meaning and purpose I am enthusiastic about my job		Click one circl		
a) b) c)	About Being a Teacher ow often do you have these feelings about a montent with my profession as a teacher I find my work full of meaning and purpose I am enthusiastic about my job My work inspires me		Click one circl		
a) b) c) d)	About Being a Teacher ow often do you have these feelings about a content with my profession as a teacher I find my work full of meaning and purpose I am enthusiastic about my job My work inspires me I am proud of the work I do		Click one circl		
a) b) c) f) g)	About Being a Teacher ow often do you have these feelings about a second of the work full of meaning and purpose I am enthusiastic about my job My work inspires me I am proud of the work I do I feel appreciated as a teacher	Very often	Often		

		a lot	a little	a little	a lot
a)	There are too many students in the classes	\circ	\circ		
b)	I have too much material to cover in class			\circ	
c)	I have too many teaching hours			\circ	
d)	I need more time to prepare for class			\circ	
e)	I need more time to assist individual students			\circ	
f)	I feel too much pressure from parents			\circ	
g)	I have difficulty keeping up with all of the changes to the curriculum		0		
h)	I have too many administrative tasks			\circ	
	About Teaching the TIMSS Class				
1. H	low many students are in this class?				
	students				
	in the number. low many eighth-grade students experience students in this class	e difficulties u	nderstanding	<u>spoken</u> Er	nglish?
2. F	low many eighth-grade students experienc		nderstanding		nglish?
2. F	students in this class in the number.				nglish? Never
2. H	students in this class in the number.	ng this class? Every or almost	Click one circle About half	for each line.	
2. H	students in this class in the number. low often do you do the following in teachi	ng this class? Every or almost	Click one circle About half	for each line.	
2. H	students in this class in the number. How often do you do the following in teaching the students in the students in the students in the students in the students. Relate the lesson to students' daily lives	ng this class? Every or almost	Click one circle About half	for each line.	
2. H (ype / a) 3. H (b) (c)	students in this class in the number. Iow often do you do the following in teachi Relate the lesson to students' daily lives Ask students to explain their answers Communicate goals or objectives for the lesson to	ng this class? Every or almost	Click one circle About half	for each line.	
2. H	students in this class In the number. How often do you do the following in teaching the lesson to students' daily lives Ask students to explain their answers Communicate goals or objectives for the lesson to the students Ask students to complete challenging exercises that	ng this class? Every or almost	Click one circle About half	for each line.	

g)	Ask students to decide their own problem solvi procedures	ng 🔾			
14. Ir	n your view, to what extent do the follo	owing limit how	you teach this	s class?	
			Click	one circle for each	n line.
			Not at all	Some	A lot
a)	Students lacking prerequisite knowledge or ski	lls	\circ	\circ	
b)	Students suffering from lack of basic nutrition			\bigcirc	
c)	Students suffering from not enough sleep		\bigcirc	\circ	
d)	Students absent from class		\bigcirc	\circ	
e)	Disruptive students		\bigcirc	\circ	
f)	Uninterested students		\circ	\circ	
g)	Distracted students		\circ	\circ	
h)	Students with mental, emotional, or psychologic	cal impairment	\circ	\circ	
i)	Students with difficulties understanding the lan instruction	guage of	0	0	
	Teaching Science to the TIMSS Cla	SS			
15. lr	n a typical week, how much time do yo	ou spend teachi	ng science to	the students	in this class?
	minutes per week				
	n the number of minutes per week. se convert the number of hours into minutes.				
	n teaching science to the students in t wing?	his class, how	often do you a	sk them to do	the
			Click one circle	e for each line.	
		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	0	0	0	
c)	Watch me demonstrate an experiment or investigation	\circ	\circ	\circ	

d)	Read their textbooks or other resource materials			
e)	Memorize facts and principles			
f)	Use scientific formulas and laws to solve routine problems			
g)	Do field work outside of class			
h)	Work in mixed ability groups	\circ		
i)	Work in same ability groups			
	/hich best describes the science course you are teac ents?	hing to the cla	ass with the T	IMSS
Click o	one circle only.			
	General science (several content areas of science taught separa	itely)		
	Integrated science (several content areas of science combined a	and taught togethe	er throughout the y	year)
	Life science (e.g., biology, ecosystems, human health)			
	Physical science (e.g., physics or chemistry)			
	Physical science (e.g., physics or chemistry) Earth science (e.g., geology, Earth and the solar system, fossils)			
18. H	Earth science (e.g., geology, Earth and the solar system, fossils) ow much emphasis do you place on the following wh		science to stu	dents in this
	Earth science (e.g., geology, Earth and the solar system, fossils) ow much emphasis do you place on the following wh	nen teaching s	science to studence to studenc	
	Earth science (e.g., geology, Earth and the solar system, fossils) ow much emphasis do you place on the following wh	nen teaching s		
	Earth science (e.g., geology, Earth and the solar system, fossils) ow much emphasis do you place on the following wh	nen teaching s	one circle for eac	h line.
class	Earth science (e.g., geology, Earth and the solar system, fossils) ow much emphasis do you place on the following where ? Encouraging students to ask questions about scientific	nen teaching s	one circle for eac	h line.
a)	Earth science (e.g., geology, Earth and the solar system, fossils) ow much emphasis do you place on the following where ? Encouraging students to ask questions about scientific phenomena Having students predict the outcomes of experiments or	nen teaching s	one circle for eac	h line.
a) b)	Earth science (e.g., geology, Earth and the solar system, fossils) ow much emphasis do you place on the following where ? Encouraging students to ask questions about scientific phenomena Having students predict the outcomes of experiments or investigations Having students discuss variation in data from experiments or	nen teaching s	one circle for eac	h line.
a) b)	Earth science (e.g., geology, Earth and the solar system, fossils) ow much emphasis do you place on the following where Encouraging students to ask questions about scientific phenomena Having students predict the outcomes of experiments or investigations Having students discuss variation in data from experiments or investigations Having students use multiple sources of evidence to explain	nen teaching s	one circle for eac	h line.
a) b) c)	Earth science (e.g., geology, Earth and the solar system, fossils) ow much emphasis do you place on the following where Encouraging students to ask questions about scientific phenomena Having students predict the outcomes of experiments or investigations Having students discuss variation in data from experiments or investigations Having students use multiple sources of evidence to explain scientific phenomena Having students create representations (e.g., models, graphs)	nen teaching s	one circle for eac	h line.
a) b) c) d)	Earth science (e.g., geology, Earth and the solar system, fossils) ow much emphasis do you place on the following where Encouraging students to ask questions about scientific phenomena Having students predict the outcomes of experiments or investigations Having students discuss variation in data from experiments or investigations Having students use multiple sources of evidence to explain scientific phenomena Having students create representations (e.g., models, graphs) to explain scientific phenomena	nen teaching s	one circle for eac	h line.

	low often do you do the following when tea	-			
			Click one circ	ele for each line.	
		At least once a week	Once or twice a month	A few times a year	Never or almost never
a)	Develop students' positive attitudes toward the natural environment	0	0		0
b)	Encourage students to use fewer resources (e.g., water, energy)	0			
c)	Discuss how student actions in and outside of school can help the natural environment	0			
d)	Discuss environmental issues (e.g., climate, endangered animals)	0			
20. D	o you do these things to teach students ab	out environn	nental issues	s and sustain	ability?
				Click one circle	e for each line.
				Yes	No
a)	Take students to visit natural areas (e.g., a pond or m	eadow)		\circ	
b)	Have students participate in environmentally responsitrash)	ble activities (e.ç	J., pick up	\circ	\circ
c)	Have students do research or projects on a particular pollution, climate)	environmental to	ppic (e.g.,	\circ	\circ
d)	Provide opportunities for students to participate in out education programs outside of school	door environmer	ıtal	\circ	
	low much do you agree or disagree that edupriority for schools?	ucation abou	t environme	ntal sustaina	bility shou
Click (one circle only.				
	Agree a lot				
	Agree a little				
	Disagree a little				
	Disagree a lot				
	Using Digital Devices for Teaching Scien	nce to the TI	MSS Class		
	a. Do the students in this class have digital of the thick the transfer of the		uding comp	uters, tablets	, or
	one circle only.	:330113 {			

	Yes				
	No				
22. B	. What access do the students	have to digital o	levices?		
			Click one	circle for each line	
			Yes	No	
a)	The class has digital devices for each	student to use	0	\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 devic	ces during scien	ce instruction	?
Click c	one 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 stu ities?	dents in your cla	ass to use digita	I devices to do	these science
activ	ues:				
			Click one 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)	Solve extended or contextualized problems	\circ			
b)	Create graphs, tables, or other data				
	displays	0			0
c)	Play games involving science concepts				
c) d)	Play games involving science				

f)	Take a test				
	How much do each of these keep you fro ruction?	m incorporating	g digital dev	rices into scienc	e
			Click	one circle for each li	ne.
			Not at all	Somewhat	A lot
a)	Not knowing how to use digital devices to improve learning	e student	0	0	0
b)	Not enough access to digital devices			\circ	
c)	Keeping students on task when the class is using	digital devices		\circ	\circ
d)	Lack of technical support from the school			\circ	\circ
	Science Topics Taught to the TIMSS	Class			
	The following list includes topics and co	•	•		
tne i	response that best describes when each	topic or conce	ot is taught	for students in t	nis class.
•	:" If you have taught a topic this year, ch th-grade curriculum for this year or you	•	ught a topic	•	et taught."
Α. Ι	Biology		Mostly taught before this year	Mostly taught this year	Not yet taught
a)	Defining characteristics of major taxonomic group	s of organisms			
b)	Structures and functions of major organs and organs	an systems		0	
c)	How animals maintain stable body conditions				
d)	Major structures and functions in plant and anima	ıl cells			
e)	Basic processes of photosynthesis				
f)					0
g)	Basic processes of cellular respiration		0	0	0
	Basic processes of cellular respiration Life cycles of mammals, birds, amphibians, insect	ts, and plants	0	0	0
h)		·	0		
h) i)	Life cycles of mammals, birds, amphibians, insect	nts and animals			

	ecosystems			
k)	Cycling of water, oxygen, and carbon through ecosystems			
l)	Predation, competition, and symbiosis in ecosystems			
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	\circ	
o)	How to prevent transmission of common diseases among humans	0	\circ	
p)	Importance of diet, exercise, and lifestyle choices for maintaining good human health	0	\circ	
Choc class If a to year.	opic or concept was in the curriculum before eighth gra " If you have taught a topic this year, choose "Mostly t	ade, choose "N aught this yeal	lostly taught	t before this s not in the
_	in-grade curriculum for this year or you have not yet ta		,	•
	th-grade curriculum for this year or you have not yet ta	Click o	ne circle for eac	h line.
B. C	th-grade curriculum for this year or you have not yet ta	Mostly taught before this year	ne circle for eac Mostly taught this year	Not yet taught
B . C		Mostly taught before this	Mostly taught	Not yet
	Themistry Structure of atoms (i.e., protons, neutrons, electrons) and	Mostly taught before this	Mostly taught	Not yet
a)	Shemistry Structure of atoms (i.e., protons, neutrons, electrons) and molecules	Mostly taught before this	Mostly taught	Not yet
a) b)	Shemistry Structure of atoms (i.e., protons, neutrons, electrons) and molecules Differences among elements, compounds, and mixtures	Mostly taught before this	Mostly taught	Not yet
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	Mostly taught before this	Mostly taught	Not yet
a) b) c) d)	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	Mostly taught before this	Mostly taught	Not yet
a) b) c) d) e)	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	Mostly taught before this	Mostly taught	Not yet
a)b)c)d)e)f)	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	Mostly taught before this	Mostly taught	Not yet
a) b) c) d) e) f)	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	Mostly taught before this	Mostly taught	Not yet
a)b)c)d)e)f)g)h)	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	Mostly taught before this	Mostly taught	Not yet

24. (continued)

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.		
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	\circ		
b)	Characteristics of matter and energy during state changes	\circ		\circ
c)	Types of energy (e.g., kinetic, potential, thermal) and examples of energy transformations		\circ	\circ
d)	Thermal conductivity and the transfer of thermal energy between objects of different temperatures		\circ	\circ
e)	Reflection, refraction, or absorption of light		\bigcirc	0
f)	Characteristics of sound (i.e., amplitude, frequency) and its transmission, reflection, and absorption		\circ	\circ
g)	Electrical conductors and simple electrical circuits			0
h)	Polarity, strength, and uses of permanent magnets and electromagnets		\circ	\circ
i)	Speed as distance changing over time		\circ	\bigcirc
j)	Acceleration as speed changing over time			\bigcirc
k)	Effects of common forces on speed and direction of motion		\circ	\bigcirc
l)	Density and buoyancy			\circ
m)	Functioning of simple machines (e.g., levers, inclined planes, pulleys)			\bigcirc

24. (continued)

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.

D. Ea	arth Science	Mostly taught before this year	Mostly taught this year	Not yet taught
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			\circ
d)	How geological events impact Earth's surface			\circ
e)	Processes in the rock cycle (e.g., lava cooling, weathering)			\circ
f)	How fossils form and what they show about Earth's history			\circ
g)	Processes in Earth's water cycle			\circ
h)	Differences between weather and climate and geographic factors affecting climate	\circ		\circ
i)	Evidence for climate change			\circ
j)	Use and conservation of Earth's resources, including land, water, and renewable and nonrenewable energy sources	0		\circ
k)	Phenomena caused by the motion of Earth and the Moon (e.g., seasons, tides, Moon phases)	0	0	0
l)	The Sun as a star and physical features of the Earth, Moon, and other planets	0	0	0
	Science Homework for the TIMSS Class			
25. A	. How often do you usually assign science homework to the	e students in th	is 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			
25. B	. How often do you do the following with the science home	work assignme	nts for th	is class?
		Click one circle	for each line	? .
		nys or nost		Never or

always

Sometimes

almost never

a)	Correct assignments and give feedback to s	students			\bigcirc
b)	Have students correct their own homework			0	
;)	Discuss the homework in class		\circ	\circ	
l)	Monitor whether or not the homework was o	completed			
)	Use the homework to contribute towards stumarks	udents' grades or			\circ
	Science Assessment of the TIMS	SS Class			
	low much importance do you place	on these strate	gies to assess	students' learni	ing in
IGI	106:				
			Click one circle for	each line.	-
		A lot	Some	None	
)	Observing students as they work				
)	Asking students to answer questions during	class	0		
)	Short, regular written assessments				
)	Longer tests (e.g., unit tests or exams)				
)	Long-term projects				
	Professional Development to Tea	ach Science			
•					
		A. In the past tw you partici professional de any of the fo	pated in velopment in	B. Do you n professional de any of the f	evelopment ir
		Click one circle	for each line.	Click one circle	for each line.
		Yes	No	Yes	No
)	Science content		\bigcirc		\circ
)	Science pedagogy/instruction	\circ	\circ		\circ
)	Science curriculum	0	\circ	0	
)	Integrating technology into science instruction	0	0	0	\circ
)	Improving students' critical thinking or inquiry skills	0	0		\circ
		Annendiy C - Page 6/			

f)	Science assessment	\bigcirc	\circ	\circ	
g)	Addressing individual students' needs		0		\bigcirc
h)	Integrating environmentalism and sustainability into science instruction	\circ	0	\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.					

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. ,		- C . I I		

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	Almost every day	Sometimes	Never
a)	I talk with my friends	\circ		\circ	\bigcirc
b)	I play sports	\circ		\circ	\bigcirc
c)	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	\bigcirc	\bigcirc	0
b)	Ice cream tastes good	\circ	\circ	\circ	
c)	Waking up early is difficult	\circ	\circ	\circ	
d)	I enjoy doing chores	\circ	\circ	\circ	
• Rea	nd each question carefully, and pic	k the answer y	ou think is bes	st.	
• Clic	k the circle next to or under your a	nswer.			
• Ask	for help if you do not understand	something or a	are not sure ho	w to answer.	
• You	may change your answers at any	time before s	ubmitting the q	uestionnaire.	
	A	bout You			
1. A	. Which of these describes	you?			
Click	one circle only.				
	Girl				
	Воу				
1. B.	Are you Hispanic or Latin	o?			
Click	one circle only.				
	Yes, I am Hispanic or Latino				
	No, I am not Hispanic or Latino				
1. C	. Which of the following be	st describe	s you?		
Click	all circles that apply.				
	White				
	Black or African American				
	Asian				
	American Indian or Alaska Nativ	ve			
	Native Hawaiian or other Pacific	c Islander			

2. A. When were you born? a) Month Click the circle next to the month you were born. January February March April May June July August September October November December 2. B. When were you born? b) Year Click the circle next to the year you were born. 2011 2012 2013 2014 2015 2016 2017 Other

3. <i>A</i>	A. How often do you speak English at home?
Clic	k one circle only.
	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. E	B. What language do you speak at home (other than English)?
Che	eck all that apply.
	Spanish
	Other (please specify)
	About how many books are there in your home? (Do not count magazines, wspapers, or your school books.)
Clic	k one circle only.
C	None or very few (0–10 books) This shows 10 books
	Enough to fill one shelf (11–25 books) This shows 25 books
C	Enough to fill one bookcase (26–100 books) This shows 100 books
	Enough to fill two bookcases (101–200 books) This shows 200 books This in the factor of the factor

5. D	o you have any of these things	at your ho	me?			
				Click one circle for each line.		
				Yes	No	
a)	Your own computer or tablet			\bigcirc	\circ	
b)	A shared computer or tablet you can us	se		\circ	0	
c)	A smartphone			\circ	0	
d)	Access to the internet			\circ		
e)	Study desk/table for your use			\circ		
f)	Your own room			\circ		
g)	A gaming system (e.g., PlayStation, Ni	ntendo Switch	, Xbox)	\circ		
6. H	ow many of the following devic	es are curr	ently use	d in your ho	me?	
			Click one ci	ircle for each line.		
		None	One	Two	Three or more	
	Desktop or laptop computers	\circ	\circ		\bigcirc	
	Tablet devices (e.g., iPad, Surface Pro, Kindle)	0	0	0	0	
incl	lere your parents/guardians boundes the 50 states, its territories es abroad.)			•		
parei	question is about your Parent/Guardian . nt/guardian, answer for Parent/Guardian nt/Guardian A and the other for Parent/G	A. If you have		-	•	
A. P	arent/Guardian A					

Click o	ne circle only.
	Yes
	No
	I don't know
	Not applicable
В. Ра	rent/Guardian B
Click o	ne circle only.
	Yes
	No
	I don't know
	Not applicable
8. We	re you born in the United States?
Click o	ne circle only.
	Yes
	No
9. Ab	out how often are you absent from school?
Click o	ne circle only.
	Once a week
	Once every two weeks
	Once a month
	Once every two months
	Never or almost never
10. Ha	ave you ever repeated a grade in elementary school?
Click o	ne circle only.
	Yes
	No

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Click one circle for each line. Every day Almost every day Sometimes Never I feel tired a) I feel hungry b) 12. How much do you agree with these statements? Click one circle for each line. Agree Agree Disagree Disagree a lot a little a little a lot I can write and edit text on a a) computer, tablet, or smartphone I can create school presentations b) using a computer, tablet, or smartphone I can create tables, charts, and c) graphs using a computer, tablet, or smartphone I can find information that I need d) online I can tell if a website is trustworthy e) I can easily do new things on f) computers, laptops, or smartphones I can help my friends or family g) members with using their computers. laptops, or smartphones 13. How much effort did you apply to succeed on this test? Click one circle only. No effort at all Very little effort Some effort

11. How often do you feel this way when you arrive at school?

4.	A lot of effort How much do you agree with the	ese stater	nents?	•		
			Click one circle for each line.			line.
			Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	I care about the protection of plants and	animals	\bigcirc	\circ	\circ	\circ
)	It makes me sad when nature is destroy	ed			\circ	\circ
c)	I enjoy finding out what kinds of plants a animals live in my surrounding area	ind			0	
d)	I enjoy being in nature (e.g., forests, par deserts)	ks,		0	0	
)	Addressing climate change should be a priority	high			\circ	
		Every day	Aln ev	nost ery	ometimes	Never
a)	I try to reuse things (e.g., bags, bottles)	O	y u			0
)	I try to use less resources (e.g., water, food)	0	(0
;)	I talk about how to help the environment (e.g., saving water, picking up trash)	0	(0	
d)	I try to learn about environmental problems (e.g., climate, endangered animals)	0	(0	
∌)	I try to participate in group activities to help the environment	0	(0	0
f)	I tell my friends when they are doing	ndix C – Page 73	(\circ	

Quite a bit of effort

16. 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?

Do you often play a musical instrument outside of school?

Are you studying something in a class outside of school?

Do you belong to a club outside of school (like Boy/Girl Scouts, 4-H, or Boys and Girls Club)?

Your School

17. What do you think about your school? 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)	I like being in school	\circ		\circ	\circ
b)	I feel safe when I am at school	\circ		\circ	\circ
c)	I feel like I belong at this school	\circ		\circ	\circ
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		\bigcirc	\circ
g)	Students at this school like me the way I am		0		0

18. 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?

Click one circle for each line.

		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			
e)	Damaged something of mine on purpose				0
f)	Hit or hurt me (e.g., shoving, hitting, kicking)				0
g)	Made me do things I didn't want to do			0	0
h)	Sent me nasty or hurtful messages online	0		0	0
i)	Shared nasty or hurtful messages about me online	0		0	\circ
j)	Shared embarrassing photos of me online	0		0	\circ
k)	Threatened me	0			\circ
			_		

Mathematics in School

19. In mathematics lessons, how often do you work on problems on your own?

Click one circle only.

- Every or almost every lesson
- About half the lessons

			Click one circ	le for each line	
		Agree a lot	Agree a little	Disagree a little	Disagree a lot
)	enjoy learning mathematics			0	
	wish I did not have to study mathematics	0	0	0	0
) [Mathematics is boring	\circ	\circ		
	learn many interesting things in mathematics	0	0	0	
) I	like mathematics	\circ	\circ		
	like any schoolwork that involves numbers	0	0	0	
) I	like to solve mathematics problems		\circ		
· .	look forward to mathematics essons	0	0	0	
	Mathematics is one of my favorite subjects	0	\circ	0	0
	ow much do you agree with th ns?	ese statem	ents abou	t your <u>math</u>	<u>ematics</u>
			Click one circ	ele for each line	
		Agree a lot	Agree a little	Disagree a little	Disagree a lot
	My teacher makes it clear what we should learn in each lesson		\circ	O	
Ś		0	0	0	0

	Agree	Agree	Disagree	Disagre
		Click one circl	e for each line	
How much do you agree with t	these statem	ents about	mathemati	ics?
Other students' behavior makes it hard for me to concentrate	0	0	0	0
Students do not follow the classroom rules	0			
Students interrupt the teacher		0	0	\circ
My teacher has to wait a long time for students to be quiet	0			0
There is too much noise for students to work well	0		0	0
Students don't listen to what the teacher says	0			
	Every or almost every lesson	About half the lessons	Some lessons	Never
		Click one circl	e for each line	
. How often do these things hap	pen in your	mathemati	<u>cs lessons</u>	?
My teacher asks me to explain my answers				\circ
My teacher asks me to show what I have learned	0		0	0
My teacher gives me helpful feedback on my work			0	
My teacher explains a topic again when we don't understand	0			
My teacher does a variety of things to help us learn				0
My teacher is good at explaining mathematics				

		a lot	a little	a little	a lot
a)	I usually do well in mathematics		\circ		\circ
b)	Mathematics is harder for me than for many of my classmates	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
f)	Mathematics is harder for me than any other subject	0			0
g)	Mathematics makes me confused		\circ	\circ	\circ
	Science in	n School			
	n science lessons, how often donce experiments?	oes your te	eacher ask	you to cond	duct
Click	one circle only.				
	At least once a week				
	Once or twice a month				
	A few times a year				
	Never				
25. ł	How much do you agree with the	ese statem	ents about	learning so	cience?
		,	Click one circ	le for each line.	
		Agree	Agree	Disagree	
		a lot	a little	a little	Disagree a lot
a)	I enjoy learning science	a lot		_	_
a) b)	I enjoy learning science I wish I did not have to study science	a lot	a little	_	_
ŕ		a lot	a little	_	_

e)	I like science	\circ	\circ		
f)	I look forward to learning science in school	\circ	\circ	\circ	\circ
g)	Science teaches me how things in the world work	\circ	\circ	\circ	\circ
h)	I like to do science experiments	\circ	\circ	0	
i)	Science is one of my favorite subjects				
	How much do you agree with the sons?	ese staten	nents abou	t your <u>scier</u>	<u>ıce</u>
			Click one circ	ele for each line	· <u> </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	\circ	\circ		\circ
b)	My teacher is easy to understand				
c)	My teacher has clear answers to my questions	0	0	0	0
d)	My teacher is good at explaining science	0	0	0	0
e)	My teacher does a variety of things to help us learn	\circ	\circ	\circ	0
f)	My teacher explains a topic again when we don't understand	\circ	\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	\circ	\circ		0
i)	My teacher asks me to explain my answers	0	0	0	0
27.	How often do these things happ	en in your	science le	ssons?	
			Click one circ	ele for each line	·

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		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
e)	Students do not follow the classroom rules	0	0		0
f)	Other students' behavior makes it hard for me to concentrate	\circ			\circ
28.	How much do you agree with th	ese statem	ents about	science?	
			Click one circl	e 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)	Science is harder for me than any other subject	0	0		0
f)	Science makes me confused	\circ		\circ	\circ
	Are you preparing for or have your or a science competition?	ou particip	ated in a so	cience club,	a science
Click	one circle only.				
	Yes				

No

Thank you!

To submit your completed questionnaire, please click the "Finish" button.

Directions

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	sch	ool?
----	-----	----	----	-----	------

Click	one	circle	only.

- Yes
- No

Example 2

How often do you do these things?

		Every day	Almost every day	Sometimes	Never
a)	I talk with my friends			\circ	
b)	I play sports			\circ	
c)	I ride a skateboard	\circ		\circ	

Click one circle for each line.

Example 3

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

Agree a lot Agree a little Disagree a lot

a) Watching movies is fun

b)	Ice cream tastes good	\circ	0		0
c)	Waking up early is difficult		\circ	\circ	
d)	I enjoy doing chores		\circ	\circ	
• Rea	d each question carefully, and pic	ck the answer	vou think is be	est.	
	k the circle next to or under your		,		
	for help if you do not understand		are not sure h	ow to answer.	
• You	may change your answers at an	y time before s	submitting the	questionnaire.	
	A	bout You	ı		
1. A.	Which of these describes		The state of the s		
Click	one circle only.				
	Girl				
	Boy				
1. B.	Are you Hispanic or Latin	no?			
Click	one circle only.				
	Yes, I am Hispanic or Latino				
	No, I am not Hispanic or Latino)			
1. C.	Which of the following be	est describ	es you?		
Click	all circles that apply.				
	White				
	Black or African American				
	Asian				
	American Indian or Alaska Nat	ive			
	Native Hawaiian or other Pacif	ic Islander			
2. A.	When were you born?				

a) Mo	onth
Click ti	he circle next to the month you were born.
	January
	February
	March
\circ	April
	May
	June
	July
\bigcirc	August
	September
	October
	November
	December
2. B.	When were you born?
b) Ye	ar
Click ti	he circle next to the year you were born.
	2006
	2007
	2008
	2009
	2010
	2011
	2012
	2013
	2014

	Other		
3. A.	How often do you speak English at home?		
Click o	one circle only.		
	Always		
\circ	Almost always		
	Sometimes		
	Never		
3. B.	What language do you speak at home (other than E	nglish)?	
Check	all that apply.		
	Spanish		
	Other (please specify)		
	out how many books are there in your home? (Do repapers, or your school books.)	not count	magazines,
Click o	one circle only.		
	None or very few (0–10 books)		
0	Enough to fill one shelf (11–25 books)		
0	Enough to fill one bookcase (26–100 books)		
	Enough to fill two bookcases (101–200 books)		
0	Enough to fill three or more bookcases (more than 200)		
5. Do	you have any of these things at your home?		
			circle for each ine.
		Yes	No

	,		\bigcirc
	(
	(
	(
	(
	(
ido Switch, Xb	ox)		
are current	ly used in y	our hon	ne?
Cli	ick one circle fo	r each lin	e.
None	One	Two	Three or more
			0
()			
ır Parent/G ne parent/g	uardian A ai uardian, ans lians, choos dian B.	wer for	
ır Parent/G ne parent/g rents/guard	uardian, ans lians, choos dian B.	wer for	
ir Parent/G ne parent/g rents/guard arent/Guard	uardian, ans lians, choos lian B. ed by your	wer for	or e in each
ir Parent/G ne parent/g rents/guard arent/Guard	uardian, ans lians, choos lian B. ed by your	one circle	e in each
ir Parent/G ne parent/g rents/guard arent/Guard	uardian, ans lians, choos dian B. ed by your Click	one circle	or e in each
	are current	None One	Click one circle for each lin

High	school graduate		\bigcirc
Asso	ciate's degree (2-year college program)	\circ	
Bach	elor's degree (4-year college program)		
Mast minis	er's degree or professional degree (MD, DDS, lawyer, ster)	0	\circ
Doct	orate (Ph.D., Ed.D.)	\circ	
I don	't know		
Not a	applicable		\bigcirc
8. Ho	w far in your education do you expect to go?		
Click o	one circle only.		
\circ	Finish middle school		
\bigcirc	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, lawyer,	minister)	
	Finish Doctorate (Ph.D., Ed.D.)		
inclu	ere your parents/guardians born in the United States des the 50 states, its territories, the District of Coluns abroad.)	•	
A. Pa	rent/Guardian A		
Click o	one circle only.		
\circ	Yes		
	No		
	I don't know		
	Not applicable		
B. Pa	rent/Guardian B		
Click o	one circle only.		

	Yes			
	No			
	I don't know			
	Not applicable			
10. A.	Were you born in the United States?			
Click o	ne circle only.			
	Yes			
	No			
	If you were not born in the United States, to the United States?	how old w	ere you when yo	ou
Click o	ne circle only.			
	Older than 10 years old			
	5 to 10 years old			
	Younger than 5 years old			
11. Al	oout how often are you absent from school) ! ?		
Click o	ne circle only.			
\bigcirc	Once a week			
	Once every two weeks			
	Once a month			
	Once every two months			
	Never or almost never			
12. Ha	ave you ever repeated a grade?			
		Click one cin		
		Yes	No	
In ele	mentary school			
	In middle or junior high school		0	

13.	How often do you feel th	nis way w	hen you ar	rive at s	school?		
	-	Click one circle for each line.					
		Every day	Almost eve	ry day	Sometimes	Never	
a)	I feel tired						
b)	I feel hungry		\circ		\circ		
mat	How often do you use the hematics or science sclestudying outside of cla	noolwork		classro	•	homework,	
					on one on ore	Tor each mile.	
				At lea once a wee	twic	e almost	
a)	Access the textbook or other	course mate	erials	\circ		0	
b)	Access assignments posted	online by my	/ teacher	\circ	\circ	\circ	
c)	Collaborate with classmates projects	on assignme	ents or		0	0	
d)	Ask my teacher questions			\circ		\circ	
e)	Find information, articles, or mathematics or science	tutorials abo	ut		0	0	
f)	Access learning games or acmathematics or science	tivities relate	ed to	0	0	0	
15.	How much do you agree	e with the	se stateme	nts?			
		_	C	lick one c	ircle for each	line.	
			Agree a lot	Agree a little	Disagre a little		
a)	I can write and edit text on a computer, tablet, or smartpho	one	0		0	0	
b)	I can create school presentatusing a computer, tablet, or smartphone	ions	0	0	0		

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c)	I can create tables, charts, and graphs using a computer, tablet, or smartphone	0)	0	0
d)	I can find information that I need online	0)	0	0
e)	I can tell if a website is trustworthy)		\circ
f)	I can easily do new things on computers, laptops, or smartphones	0)		0
g)	I can help my friends or family members with using their computers, laptops, or smartphones)	0	0
16.	How much do you agree with the	se state	ments?			
			C	lick one c	ircle for each	line.
			Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	I care about the protection of plants and	animals				\circ
b)	Nature exists to benefit humans regardle consequences	ess of the		0		0
c)	The most important reason for protecting areas is so people can enjoy them	g natural	0	0		0
d)	I am confident that environmental proble be solved by science and technology	ems will		0		0
e)	It makes me sad when nature is destroy humans	ed by	0	0		0
f)	I enjoy finding out what kinds of plants a animals live in my surrounding area	nd	0	0		0
g)	I enjoy being in nature (e.g., forests, par deserts)	ks,	0	0		\circ
h)	Protecting nature is more important than economic growth	ı	0	0		\circ
i)	Addressing climate change should be a priority	high				\circ
17.	How often do you do these thing	s to help	the na	tural en	vironment	t?

		Every day	Almost every day	Sometimes	Never
a)	I try to reuse things (e.g., bags, bottles)	0		0	0
b)	I try to use less resources (e.g., water, food)			0	0
c)	I talk about how to help the environment (e.g., saving water, picking up trash)				
d)	I try to learn about environmental problems (e.g., climate, endangered animals)			0	
e)	I try to participate in group activities to help the environment			0	0
f)	I tell my friends when they are doing things that harm the environment			0	0
18. I	How much effort did you apply t	o succeed o	on this te	st?	
Click	one circle only.				
	No effort at all				
	Very little effort				
	Come effort				
	Quite a bit of effort				
	A lot of effort				
19	The following questions ask abo	out activities	s you do	outside of sc	hool.
				Click one circ	
				Yes	No
	you play on a sports n outside of school?				

			At least	Once or	A few	Never
			Clic	ck one ci	ircle for ea	ach line.
on	During this school year, how one control of the following things to bugh social media?				•	
h)	Students at this school like me the way I am	0			\circ	
g)	Students in this school respect me	\circ			\bigcirc	\circ
f)	I have friends at this school	\circ				
e)	I am proud to go to this school	0			\circ	\circ
d)	Teachers at this school care about me	0			0	
;)	I feel like I belong at this school	\circ			\bigcirc	\circ
)	I feel safe when I am at school		\circ		\bigcirc	\circ
)	I like being in school		\circ			
		Agree a lot	Agree a little		sagree a little	Disagree a lot
			Click one d	circle for	each line	
	What do you think about your ements.	school? Tel	l how mu	ıch yo	u agree	with thes
	Your	School				
	•	g to a club outs Scouts, 4-H, or		ol		
son	you studying nething in a class side of school?					
nus	you often play a sical instrument side of school?					

		a week	a month	a year			
a)	Said mean things about my physical appearance (e.g., my hair, my size)		0	0	0		
b)	Spread lies about me	\bigcirc					
c)	Shared my secrets with others						
d)	Refused to talk to me	\bigcirc					
e)	Said hurtful things to or about me because of my cultural background (e.g., race, ethnicity, religion)	0		\circ	\circ		
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	\circ					
i)	Shared nasty or hurtful things about me online	\circ					
j)	Shared embarrassing photos of me online	\circ					
k)	Threatened me	\circ					
I)	Physically hurt me	\circ					
m)	Excluded me from their group (e.g., parties, messaging)		0	0			
n)	Damaged something of mine on purpose	\circ					
	Mathematics in Scho	ool					
	22. In mathematics lessons, how often do you work on problems on your own?						
Click	one circle only.						
	Every or almost every lesson						
\bigcirc	About half the lessons						
\circ	Some lessons						
	Never						

23. How much do you agree with these statements about learning mathematics?

\sim \sim \sim			•		
Click	α	CIRCIA	tor	22Ch	lina
CHICK	UIIE		1011	caul	11111

		Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	I enjoy learning mathematics	\circ	\circ	\circ	
b)	I wish I did not have to study mathematics	0	0	0	
c)	Mathematics is boring	\circ	\circ	\circ	
d)	I learn many interesting things in mathematics	0	0	0	
e)	I like mathematics	\circ	\circ	\circ	
f)	I like any schoolwork that involves numbers	0	0	0	
g)	I like to solve mathematics problems	\circ	\circ	\circ	
h)	I look forward to mathematics class	\circ	\circ	\circ	
i)	Mathematics is one of my favorite subjects	\circ	0	0	
-			4 .		4.

24. How much do you agree with these statements about your <u>mathematics</u> <u>lessons</u>?

Click **one** circle 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	0
b)	My teacher is easy to understand	\circ	\circ	\circ	\circ
c)	My teacher has clear answers to my questions	0		0	0
d)	My teacher is good at explaining mathematics	\circ		\circ	\circ
e)	My teacher does a variety of things to help us learn	\circ	\circ	\circ	\circ
	Al	ppendix C – Page 94	\circ	\circ	

f)	My teacher explains a topic again when we don't understand				
g)	My teacher gives me helpful feedback on my work		\circ		0
h)	My teacher asks me to show what I have learned	\circ	\circ	0	0
i)	My teacher asks me to explain my answers	0	0		
j)	My teacher asks us to apply what we have learned in new situations	0	0		
25.	How often do these things happe	n in your <u>m</u>	<u>nathemati</u>	<u>cs lessons</u>	?
			Click one circ	cle for each lii	ne.
		Every or almost every lesson	About half the lessons	Some lessons	Never
a)	Students don't listen to what the teacher says	\circ	\circ	\circ	0
b)	There is too much noise for students to work well	\circ	\circ	0	
c)	My teacher has to wait a long time for students to be quiet	\circ	\circ	\circ	0
d)	Students interrupt the teacher		\circ		\circ
e)	Students do not follow the classroom rules	0	\circ	0	
f)	Other students' behavior makes it hard for me to concentrate		0		
26.	How much do you agree with the	se stateme	nts about	mathemat	ics?
	_	Cl	ick one 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 strengths	\circ	\circ	\circ	
d)	Mathematics is easy for me			\circ	
e)	I am good at working out difficult mathematics problems	0	0	0	
f)	I am good at explaining mathematics to others	0	0	0	
g)	Mathematics is harder for me than any other subject	0	0	0	
h)	Mathematics makes me confused				
27.	How much do you agree with the	ese statem	nents abou	t mathemati	ics?
			Click one circ	le 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	
b)	I need mathematics to learn other school subjects	\circ	\circ	\circ	
c)	I need to do well in mathematics to get into the college or university of my choice	0	0	0	
d)	I need to do well in mathematics to get the job I want	0	0	0	
e)	I would like a job that involves using mathematics	\circ	\circ	\circ	
f)	It is important to learn about mathematics to get ahead in the world	0	0	0	
g)	Learning mathematics will give me more job opportunities when I am an adult	0	0	0	
h)	My parents think that it is important				

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	that I do well in mathematics				
i)	It is important to do well in mathematics	0	0	0	
	Science in	n School	l		
	n science lessons, how often do nce experiments?	oes your te	eacher ask	you to con	duct
Click	one circle only.				
	At least once a week				
	Once or twice a month				
	A few times a year				
	Never				
29. ł	How much do you agree with the	ese statem	ents abou	t learning s	cience?
			Click one circ	le for each line	
		Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	I enjoy learning science	\circ	0	0	\circ
b)	I wish I did not have to study science	\circ		\circ	\circ
c)	Science is boring	\circ		\circ	\circ
d)	I learn many interesting things in science	\circ	0	0	
e)	I like science	\circ		\circ	\circ
f)	I look forward to learning science in school	\circ	0	0	
g)	Science teaches me how things in the world work	\circ	0	0	
h)	I like to conduct science experiments	\circ		\circ	0
i)	Science is one of my favorite subjects	0	0	0	
	How much do you agree with the ons?	ese statem	ents abou	t your <u>scien</u>	<u>ice</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	\circ		0	\circ
b)	My teacher is easy to understand		\circ		
c)	My teacher has clear answers to my questions	0			0
d)	My teacher is good at explaining science	\circ			\circ
e)	My teacher does a variety of things to help us learn	0			\circ
f)	My teacher explains a topic again when we don't understand	0			\circ
g)	My teacher gives me helpful feedback on my work	0			\circ
h)	My teacher asks me to show what I have learned	0			\circ
i)	My teacher asks me to explain my answers	0			\circ
j)	My teacher asks us to apply what we have learned in new situations	0	0		0
31.	How often do these things happe	n in your <u>s</u>	<u>cience les</u>	ssons?	
			Click one ci	ircle for each li	ne.
		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			

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c)	My teacher has to wait a long time for students to be quiet		0	0	0
d)	Students interrupt the teacher			\circ	
e)	Students do not follow the classroom rules	0	\circ	\circ	0
f)	Other students' behavior makes it hard forme to concentrate	or O	\circ	\circ	
32 . l	How much do you agree with the	se statem	ents about	t science?	
	-	C	Click one circ	le for each line	
		Agree a lot	Agree a little	Disagree a little	Disagree a lot
a)	I usually do well in science				
b)	Science is harder for me than for many of my classmates	\circ		0	0
c)	Science is not one of my strengths				
d)	Science is easy for me				
e)	I am good at working out difficult science problems	\circ		0	0
f)	I am good at explaining science to others		0	0	0
g)	Science is harder for me than any other subject		0	0	
h)	Science makes me confused				
33. l	How much do you agree with the	se statem	ents abou	t science?	
		C	Click one circ	le 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	
b)	I need science to learn other school	dix C – Page 99		\circ	

	subjects					
c)	I need to do well in science t into the college or university choice		0	0	0	0
d)	I need to do well in science t the job I want	o get	0	0	0	0
e)	I would like a job that involve science	es using	0	0	0	0
f)	It is important to learn about to get ahead in the world	science	0	0	0	0
g)	Learning science will give me job opportunities when I am		0	0	0	0
h)	My parents think that it is important I do well in science	oortant	0	0	0	0
i)	It is important to do well in so	cience			\bigcirc	
	n this school year, are following activities?	you prep	aring for or	have you	participated	l in any of
			Clid	ck one circle line.	for each	
					for each	
Scie	ence fair			line.		
	ence fair ence club			line.		
Scie				line.		
Scie	ence club	Home		line.		
Scie	ence club		work	Yes	No O	
Scie	ence club ence competition How often does your te		work e you hom	Yes	No O O he following	
Scie	ence club ence competition How often does your te		work e you hom	Yes ework in t	No O O he following	Never

b) Science

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.