

TIMSS 2019 Curriculum Questionnaire Eighth Grade

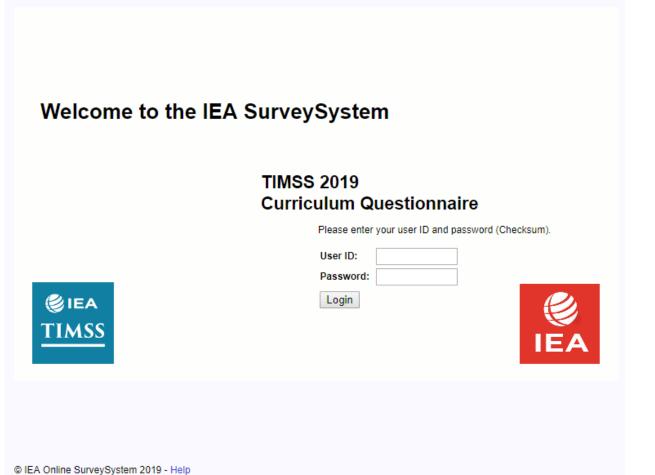




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TIMSS 2019 Curriculum Questionnaire – Eighth Grade

TIMSS 2019 Curriculum Questionnaire – Eighth Grade

The TIMSS 2019 Curriculum Questionnaire is designed to collect basic information about the structure of the education system as well as the organization, content, and implementation of the mathematics and/or science curricula in each country.

The questionnaire should be completed by the National Research Coordinators, drawing on the expertise of curriculum specialists and educators. Please submit this questionnaire no later than October 30, 2019.

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 "Previous" button. To go to a particular section or item, please click on the corresponding link in the "Table of Contents." When you have completed the questionnaire, please make sure to click the "Submit" button to submit your answers.

Please note that the General Module is the same across the fourth and eighth grades, and therefore National Research Coordinators of countries participating in TIMSS 2019 at both the fourth and eighth grade are advised to complete the General Module at only one of the grade levels. The Mathematics and Science Modules should be completed at both grade levels.

If you have any questions about the content of this questionnaire, please contact the TIMSS & PIRLS International Study Center at Boston College: timss@bc.edu

If you have any technical questions on how to complete this questionnaire, please contact the IEA Hamburg (TIMSS email account): timss@iea-hamburg.de

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TIMSS 2019 Curriculum Questionnaire - Eighth Grade - GENERAL MODULE

GENERAL MODULE

To be completed by all countries participating in TIMSS

Please note: if you already have completed the General Module of the Grade 4 Curriculum Questionnaire, please skip the General Module using the Table of Contents.

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TIMSS 2019 Curriculum Questionnaire – Eighth Grade - Grade Structure and Student Flow

Grade Structure and		n English (o.g. grado 4. grado
?	ame for the grade(s) tested in TIMSS 2019, in	n English (e.g., grade 4, grade
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TIMSS 2019 Curriculum Questionnaire – Eighth Grade - Grade Structure and Student Flow

amples: "Children begin scho	ol during the calendar	vear (of their 6th hirtho	lav": "Children r	nust be 6 veer	rs old by the er	nd of June f
gin school the following Septe		,		ay, onnaron i	naar se e year	0 0/0 07 0/0 0/	
						2	
If the official policy all	ows some narent:	al die	scretion or c	hoice nleas	e describe	the usual n	ractice
If the official policy all	ows some parenta	al di	scretion or c	hoice, pleas	e describe	the usual p	ractice.
				-		-	
ample: "Even though the offic	ial policy is that studen	nts ca	n begin school ir	the year when	they turn 6 ye	-	
	ial policy is that studen	nts ca	n begin school ir	the year when	they turn 6 ye	-	
ample: "Even though the offic	ial policy is that studen	nts ca	n begin school ir	the year when	they turn 6 ye	-	
ample: "Even though the offic	ial policy is that studen	nts ca	n begin school ir	the year when	they turn 6 ye	-	
ample: "Even though the offic	ial policy is that studen	nts ca	n begin school ir	the year when	they turn 6 ye	-	
ample: "Even though the offic	ial policy is that studen	nts ca	n begin school ir	the year when	they turn 6 ye	-	
ample: "Even though the offic	ial policy is that studen	nts ca	n begin school ir	the year when	they turn 6 ye	-	
ample: "Even though the offic	ial policy is that studen	nts ca	n begin school ir	the year when	they turn 6 ye	-	
ample: "Even though the offic	ial policy is that studen	nts ca	n begin school ir	the year when	they turn 6 ye	-	
ample: "Even though the offic	ial policy is that studen	nts ca	n begin school ir	the year when	they turn 6 ye	-	
ample: "Even though the offic	ial policy is that studen	nts ca	n begin school ir	the year when	they turn 6 ye	-	
ample: "Even though the offic	ial policy is that studen	nts ca	n begin school ir	the year when	they turn 6 ye	-	
ample: "Even though the offic	ial policy is that studen	nts ca	n begin school ir	the year when	they turn 6 ye	-	
ample: "Even though the offic	ial policy is that studen	nts ca	n begin school ir	the year when	they turn 6 ye	-	
ample: "Even though the offic	ial policy is that studen	nts ca	n begin school ir	the year when	they turn 6 ye	-	
ample: "Even though the offic	ial policy is that studen	nts ca	n begin school ir	the year when	they turn 6 ye	-	
ample: "Even though the offic	ial policy is that studen	nts ca	n begin school ir	the year when	they turn 6 ye	-	
ample: "Even though the offic	ial policy is that studen	nts ca	n begin school ir	the year when	they turn 6 ye	-	
ample: "Even though the offic	ial policy is that studen	nts ca	n begin school ir	the year when	they turn 6 ye	-	
ample: "Even though the offic	ial policy is that studen	nts cai	n begin school ir	n the year when m being more n	they turn 6 ye	-	en typically
ample: "Even though the offic gin primary school at age 7 be	ial policy is that studen cause their parents fe	nts cai	n begin school ir ey will benefit froi	n the year when m being more n	they turn 6 ye	-	en typically
ample: "Even though the offic gin primary school at age 7 be	ial policy is that studen cause their parents fe	nts cai	n begin school ir ey will benefit froi	n the year when m being more n	they turn 6 ye	-	en typically
ample: "Even though the offic gin primary school at age 7 be	ial policy is that studen cause their parents fe	nts cai	n begin school ir ey will benefit froi	n the year when m being more n	they turn 6 ye	-	



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G3. A. Has the stated o	official policy changed	in the las	t 10 years?			
Check one circle only.						
YesNo						
<i>If Yes</i> B. How did the policy o	change, and what is the	status o	f implementatio	n?		
					1	
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TIMSS 2019 Curriculum Questionnaire – Eighth Grade - Grade Structure and Student Flow

Example: "Ages 6-16 (or Grades 1	-9)."	
		//
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G5. Beginning with ISCED	naire – Eighth Grade - Grade Structure and Stude	
Level 3 (upper secondary) Example: "Grades 1-12."	?	
		/

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TIMSS 2019 Curriculum Questionnaire – Eighth Grade - Grade Structure and Student Flow

G6. Does your country have a policy on t	the p	romotion and retention of students acro	ss grades 1-8?
Example: "Automatic promotion for grades 1-5, depe	endent	t on academic progress for grades 6-8."	
Check one circle only.			
Yes			
No			
Please describe:			
]
		//	i.
	7/00		
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	e a nationally mandated number of school d	ays per year?
Check one circle only.		
No		
Please describe:		
		//
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TIMSS 2019 Curriculum Questionnaire – Eighth Grade - Languages of Instruction

G8. A. State the official lar	nguage(s) and describe the major language subgrou	ups.
		2
	s of instruction for mathematics and science in the f ction in these grades for these subjects presented t cond language?	
For example, is the instru	ction in these grades for these subjects presented t	
For example, is the instru	ction in these grades for these subjects presented t	
For example, is the instru	ction in these grades for these subjects presented t	





TIMSS 2019 Curriculum Questionnaire - Eighth Grade - Early Childhood Education

Early Childhood Education

Early childhood education (ISCED Level 0) is subdivided into:

- · Early childhood educational development (ECED) programs for children under age 3; and
- Pre-primary education (PPE) programs including Kindergarten for children age 3 or older.

G9. A. Does your country provide universal ECED or PPE coverage?

Programs with universal coverage are accessible and available to all children, although in some cases parents may choose not to enroll their children.

	Check one ci	ircle for each line.			
	Yes	No			
a) ECED programs for children under age 3	\odot	•			
b) PPE programs for children age 3 or older	\bigcirc	0			
B. How many years can children att	end these	programs altog	ether?		
Check one circle only.					
1 year					
 2 years 					
 3 years 					
4 or more years					
Comments:					
				/	
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where the language spoken at home is different			n from low-income families, for children
с	heck <mark>one</mark> c	ircle for each line.	
_	Yes	No	
 ECED programs for children under age 3 	\bigcirc		
) PPE programs for children age 3 or older	\bigcirc	\odot	
Please describe:			
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TIMSS 2019 Curriculum Questionnaire - Eighth Grade - Early Childhood Education

Early childhood education (ISCED Level 0) is subdivided into: · Early childhood educational development (ECED) programs for children under age 3; and · Pre-primary education (PPE) programs including Kindergarten for children age 3 or older. G10. A. Does your country have national curriculum guidance documents for ECED or PPE programs? Check one circle for each line. Yes No a) ECED programs for children under age 3 \bigcirc \bigcirc b) PPE programs for children age 3 or older 11/38 Table of Contents Previous Next

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TIMSS 2019 Curriculum Questionnaire - Eighth Grade - Early Childhood Education

If Yes....

B. Do the curriculum guidance documents cover any of the following topic areas?

Check one circle for ECED programs, AND one circle for PPE programs.

	Yes	No	Yes	No
Socio-emotional development	0	0	0	\bigcirc
) Physical development and health education	0	0	0	0
) Oral language development and communication ski	ls 🔾	\bigcirc	0	\bigcirc
) Reading and literacy skills	0	0	0	0
) Mathematics and numeracy skills	0	\bigcirc	0	\bigcirc
Science including understanding the natural world (e.g., weather)	0	0	0
 Other Please specify below: 	\odot	\bigcirc	0	0
omments:				





TIMSS 2019 Curriculum Questionnaire - Eighth Grade - Examinations

Examinations		
examinations that have	ational authority in your country (e.g., National Ministry of E ve consequences for individual students, such as entry to a and/or exiting or graduating from secondary school?	
Check one circle only.		
Ves No		
purpose of each exan	e grades at which the exams are given, the subjects that are n. n including language and mathematics given at the end of grade 8 to determin	
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TIMSS 2019 Curriculum Questionnaire – Eighth Grade - Teacher Preparation

Teacher Preparation				
G12. A. What is the <u>main</u> prep	paration route(s)	for teachers of st	udents in the <u>fourth gr</u>	ade?
Example: "Most teachers receive their program, but that is becoming less con		university degree prog	ram. Some have attended a	teacher college
			/	2 2
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TIMSS 2019 Curriculum Questionnaire - Eighth Grade - Teacher Preparation

B. According to the <u>main</u> teacher preparation route, what are the current requirements for being a teacher of students in the <u>fourth grade</u>?

	-		Check one of	circle for each line.	
		Yes		No	
a)	Supervised practicum during the teacher education program.	0		\odot	
	If Yes How long is this period?				
	Passing a qualifying examination (e.g., licensing, certification).	\bigcirc		0	
c)	Completion of a probationary teaching period.	\bigcirc			
	If Yes How long is this period?				
d)	Completion of a mentoring or induction program (e.g., experienced teachers work with novice teachers to provide instructional guidance).				
e)	Other Please specify below:	\bigcirc		0	
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IEA TIMSS (Continued) TIMSS - 2019 - English You are logged in as: 9996 Logout TIMSS 2019 Curriculum Questionnaire - Eighth Grade - Teacher Preparation C. Are there additional requirements for teachers of mathematics and science in the fourth grade? Check one circle only. Yes No If Yes... D. What are they? E. In the last 10 years, has there been a change in the stated official policy about the requirements for being a teacher of students in the fourth grade? Check one circle only. Yes No If Yes F. How did the policy change, and what is the status of implementation? Example: "A master's degree will be required in 2020; an oral examination has been required since 2018." 13/38 Table of Contents Previous Next © IEA Online SurveySystem 2019 - Help TIMSS & PIRLS

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TIMSS 2019 Curriculum Question			e <u>eighth grade</u> different from ti
main preparation route(s)	at the <u>fourth grade</u> ?		e <u>ergintir grade</u> unterent nom t
Check one circle only.			
Yes			
No			
If Yes B. If the main preparation <u>main</u> preparation route?	route(s) for teachers	of students in the <u>eigh</u>	<u>th grade</u> is different, what is th
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TIMSS 2019 Curriculum Questionnaire - Eighth Grade - Teacher Preparation

Yes No a) Supervised practicum during the teacher education program. If Yes How long is this period? Image: Completion of a probationary teaching period. Image: Completion of a probationary teaching period. 0 Completion of a probationary teaching period. Image: Completion of a probationary teaching period. Image: Completion of a probationary teaching period. 0 Completion of a mentoring or induction program (e.g., experienced teachers work with horize teachers to provide instructional guidance). Image: Completion of a mentoring or induction program (e.g., experienced teachers work with horize teachers to provide instructional guidance). Image: Completion of a mentoring or induction program (e.g., experienced teachers work with horize teachers to provide instructional guidance). Image: Completion of a mentoring or induction program (e.g., experienced teachers work with horize teachers to provide instructional guidance). Image: Completion of a mentoring or induction program (e.g., experienced teachers work with horize teachers to provide instructional guidance). Image: Completion of a mentoring or induction program (e.g., experienced teachers of mathematics and science in the eighth grade are different than in the fourth grade, what are they?			Check one circle for each line.
education program. // Yes How long is this period?	_	Yes	No
How long is this period? b) Passing a qualifying examination (e.g., licensing, certification). c) Completion of a probationary teaching period. If Yes How long is this period? d) Completion of a mentoring or induction program (e.g., experienced teachers work with novice teachers to provide instructional guidance). e) Other Please specify below:		\bigcirc	0
b) Passing a qualifying examination (e.g., licensing, certification). c) Completion of a probationary teaching period. if Yes How long is this period? d) Completion of a mentoring or induction program (e.g., experienced teachers work with novice teachers to provide instructional guidance). e) Other Please specify below:			
period. /f Yes How long is this period?	b) Passing a qualifying examination (e.g.,	0	0
How long is this period? d) Completion of a mentoring or induction program (e.g., experienced teachers work with novice teachers to provide instructional guidance). e) Other Please specify below: D. If there are additional requirements for teachers of mathematics and science in the eighth graded		0	0
 d) Completion of a mentoring or induction program (e.g., experienced teachers work with novice teachers to provide instructional guidance). e) Other Please specify below: 			
e) Other Please specify below:	 Completion of a mentoring or induction program (e.g., experienced teachers work with novice teachers to provide 	0	
D. If there are additional requirements for teachers of mathematics and science in the <u>eighth grad</u>	e) Other	\bigcirc	0
		what are they?	mathematics and science in the eighth grade
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MSS 2019 Curriculum Questio		Teacher Preparation		
E. In the last 10 years, ha being a teacher of studer	s there been a char	ge in the stated o	official policy abo	out the requirements fo
Check one circle only.	its in the <u>eightrigra</u>	<u>ue</u> :		
Yes				
No				
lf Yes				
F. How did the policy cha	inge, and what is th	e status of impien	nentation?	



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TIMSS 2019 Curriculum Questionnaire - Eighth Grade - Principal Preparation

G14. A. What is the main preparation route(s) for prin	cipals of sc	hools with <u>fou</u>	<u>irth grade</u> students
Example: "In addition to receiving their teaching qualifications, most	principals have	a degree in educ	ational leadership."
B. According to the <u>main</u> principal preparation route, principal of a school with <u>fourth grade</u> students?	what are th	e current requ	irements for being
	Check <mark>one</mark> circ	le for each line.	
	Yes	No	
a) Teaching experience	0	0	
 b) Completion of a specialized school leadership training program (including a school leadership degree program) 	Õ	0	
c) Other Please specify below:	\bigcirc	\bigcirc	
			//
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TIMSS 2019 Curriculum Question	naire – Eighth Grade - Principal Preparation	
C. In the last 10 years, has being a principal of a scho	there been a change in the stated offic ool with <u>fourth grade</u> students?	ial policy about the requirements fo
Check one circle only.		
Yes		
No		
If Yes		
D. How did the policy char	nge, and what is the status of implemen	itation?
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TIMSS 2019 Curriculum Questionnaire – Eighth Grade - Principal Preparation

Check one circle only.			
· Vec			
Ves No			
NO			
If Yes B. If the main preparation route(s) for principals of so is their <u>main</u> preparation route?	chools with g	<u>eighth grade</u> s	tudents is different
Example: "In addition to receiving their teaching qualifications, most	principals have	a degree in educ	ational leadership."
C. According to the <u>main</u> principal preparation route principal of a school with <u>eighth grade</u> students?	what are th		irements for being
a) Teaching experience	Yes	No	
b) Completion of a specialized school leadership training program	0	0	
(including a school leadership degree program) c) Other	0	0	
Please specify below:	0	0	
	of Contonio		
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	aire – Eighth Grade - Principal Preparation		
D. In the last 10 years, has	there been a change in the stated o ol with <u>eighth grade</u> students?	official policy about the requi	rements fo
Check one circle only.	or with <u>eightir grade</u> students :		
Yes			
No			
lf Yes E. How did the policy chan	ge, and what is the status of impler	mentation?	
E. How did the policy chang	ge, and what is the status of implet		
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TIMSS 2019 Curriculum Questionnaire - Eighth Grade - MATHEMATICS MODULE - GRADE 8

MATHEMATICS MODULE - GRADE 8

To be completed by all countries participating in TIMSS at the eighth grade

This mathematics module refers to the national curriculum that was in effect for the eighth grade students assessed in TIMSS 2019 the curriculum that covers mathematics instruction at the eighth grade of formal schooling for the majority of students. If you do not have a national curriculum, please summarize for your state or provincial curricula.

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TIMSS 2019 Curriculum Questionnaire - Eighth Grade - About the Eighth Grade Mathematics Curriculum

About the Fighth Cra		
About the Eighth Gla	ade Mathematics Curriculum	
he curriculum that covers mathemat	the national curriculum that was in effect for the eighth grad tics instruction at the eighth grade of formal schooling for th summarize for your state or provincial curricula.	
M1. Does your country have grade of formal schooling?	e a national curriculum that covers mathematic	s instruction at the eighth
Check one circle only.		
Yes		
No		
f Yes Comments:		
		1
	decision-making authority (e.g., state or provi	nce) that provides a
	decision-making authority (e.g., state or provi nematics instruction at the eighth grade of forr	
Vhat is the highest level of c		
Vhat is the highest level of c		
Vhat is the highest level of o		
Vhat is the highest level of c		
Vhat is the highest level of o		
Vhat is the highest level of c		
Vhat is the highest level of c		
What is the highest level of c		
Vhat is the highest level of o urriculum that covers math	nematics instruction at the eighth grade of forr	nal schooling?
Vhat is the highest level of o urriculum that covers math	nematics instruction at the eighth grade of forr	nal schooling?
Vhat is the highest level of o	nematics instruction at the eighth grade of forr	nal schooling?



TIMSS 2019 Curriculum Questionnaire - Eighth Grade - About the Eighth Grade Mathematics Curriculum

M2. A. In what year was the 2018/2019 mathematics curriculum introduced?				
Comments (e.g., status of imp	elementation):			
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	riculum currently being revise		
Check one circle only.			
Yes			
No			
If Yes Please explain:			
Please explain:			
			11
IF No.			
<i>lf No</i> Comments:			



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TIMSS 2019 Curriculum Questionnaire - Eighth Grade - Curriculum Specifications

Curriculum Specifications

This mathematics module refers to the national curriculum that was in effect for the eighth grade students assessed in TIMSS 2019 the curriculum that covers mathematics instruction at the eighth grade of formal schooling for the majority of students. If you do not have a national curriculum, please summarize for your state or provincial curricula.

M3. Does the curriculum or any other official document prescribe the percentage of <u>total</u> instructional time to be devoted to <u>mathematics</u> instruction at the eighth grade of formal schooling?

Check one circle only.

_	Mar.
\bigcirc	Yes

No

If Yes... Please specify the percentage:

Commer	its:
--------	------

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	rriculum imple	ementation
Ci	heck one circle fo	or each line.
	Yes	No
 a) Visits by inspectors 	0	\bigcirc
b) Research programs	0	\odot
c) School self-evaluation	\bigcirc	0
d) National or regional examinations	0	0
e) Other Please specify below:	0	0
L		
Comments:		
comments.		
Comments.		
Comments.		

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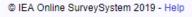


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TIMSS 2019 Curriculum Questionnaire – Eighth Grade - Use of Digital Devices

Use of Digital Devices		
	curriculum that was in effect for the eighth grade stud on at the eighth grade of formal schooling for the ma or your state or provincial curricula.	
M5. A. Does the national curriculum c computers, tablets, calculators) in gra	ontain statements/policies about the use ade 8 mathematics instruction?	e of digital devices (e.g.,
Check one circle only.		
Yes		
No		
If Yes		
What are the statements/policies?		
		/
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ou are logged in as: 9996 Logout		
IMSS 2019 Curriculum Question	naire – Eighth Grade - Use of Digital Devices	
B. Does the national curric	culum contain statements/policies about stu	dent use of digital devices (e.
	ators) in grade 8 mathematics <u>tests</u> or <u>exam</u>	inations?
Check one circle only.		
Yes		
No		
If Yes What are the statements/p	oolicies?	
mature the statements/p		
		1
Comments:		



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TIMSS 2019 Curriculum Questionnaire - Eighth Grade - Specialist Mathematics Teachers

Specialist Mathem	atics Teachers			
M6. At what grade(s) are a classroom teachers?	students first taught	by mathematics su	ibject specialists rath	er than general
			/	
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TIMSS 2019 Curriculum Questionnaire - Eighth Grade - Eighth Grade Mathematics Topics Covered

Eighth Grade Mathematics Topics Covered

This mathematics module refers to the national curriculum that was in effect for the eighth grade students assessed in TIMSS 2019 the curriculum that covers mathematics instruction at the eighth grade of formal schooling for the majority of students. If you do not have a national curriculum, please summarize for your state or provincial curricula.

M7. (i) According to the national mathematics curriculum, what proportion of grade 8 students should have been taught each of the following topics or skills by the end of grade 8?

Be sure to include curriculum expectations for all grades up to and including grade 8. Grades represent years of formal schooling. For example, if "Year 9" in your country corresponds to the eighth year of formal schooling, please choose grade 8.

(ii) Across grades from preprimary through upper secondary education, at what grade(s) are the topics primarily intended to be taught?

	stude	portion of nts expect taught top	ed to be	pr						taug conda	ht ary (G	12)
A. Number	All or almost all	Only the	r each line. Not included in the curriculum through grade 8	pp				-		G10	opic. G11	G1
a) Computing with negative numbers	0	0	0									
b) Concepts of fractions and decimals	0	\bigcirc	0									
 c) Solving problems involving proportions and percents 	\bigcirc	\bigcirc	\bigcirc									
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TIMSS 2019 Curriculum Questionnaire - Eighth Grade - Eighth Grade Mathematics Topics Covered

M7. (continued)

(i) According to the national mathematics curriculum, what proportion of grade 8 students should have been taught each of the following topics or skills by the end of grade 8?

Be sure to include curriculum expectations for all grades up to and including grade 8. Grades represent years of formal schooling. For example, if "Year 9" in your country corresponds to the eighth year of formal schooling, please choose grade 8.

(ii) Across grades from preprimary through upper secondary education, at what grade(s) are the topics primarily intended to be taught?

	studer	portion of nts expect taught top	ed to be	pre						taug conda	ht ary (G	12)
B. Algebra	All or almost all	Only the	r each line. Not included in the curriculum through grade 8	PP				-		ach to G10	opic. G11	612
a) Simplifying and evaluating algebraic expressions	0	0										
b) Simple linear equations	0	0	0									
c) Simple linear inequalities	\bigcirc	\bigcirc	\bigcirc									
 d) Simultaneous (two variables) equations 	0	0	0									
 e) Representation of linear and quadratic functions in tables, graphs, words, or equations 	0	0	0									
f) Properties of functions (slopes, intercepts, etc.)	\bigcirc		0									
 g) Numeric, algebraic, and geometric patterns or sequences (extension, missing terms, generalization of patterns) 	0	0	0									
Comments:						 	 	 				
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TIMSS 2019 Curriculum Questionnaire - Eighth Grade - Eighth Grade Mathematics Topics Covered

M7. (continued)

(i) According to the national mathematics curriculum, what proportion of grade 8 students should have been taught each of the following topics or skills by the end of grade 8?

Be sure to include curriculum expectations for all grades up to and including grade 8. Grades represent years of formal schooling. For example, if "Year 9" in your country corresponds to the eighth year of formal schooling, please choose grade 8.

(ii) Across grades from preprimary through upper secondary education, at what grade(s) are the topics primarily intended to be taught?

	stude	portion of nts expect taught top	ted to be	pr										taugi conda	ht ary (G	12)
	Check o	ne circle fo	r each line. Not included		C	heck	the c	orre	spon	ding	grad	e(s)	for ea	ach to	pic.	
C. Geometry	All or almost all students	Only the more able students	in the curriculum through	РР	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12
 a) Geometric properties of angles, pairs of lines, and geometric shapes (triangles, quadrilaterals, and other common polygons) 	0	0	0													
 b) Solving problems involving perimeters, circumferences, and areas 	0	\bigcirc	•													
 c) Solving problems involving the Pythagorean Theorem 	\bigcirc	\bigcirc	\bigcirc													
d) Translation, reflection, and rotation	0	\odot	0													
 e) Congruent figures and similar triangles 	\bigcirc	\bigcirc	0													
f) Solving problems with three- dimensional shapes	0	0	0													
Comments:																
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TIMSS 2019 Curriculum Questionnaire - Eighth Grade - Eighth Grade Mathematics Topics Covered

M7. (continued)

(i) According to the national mathematics curriculum, what proportion of grade 8 students should have been taught each of the following topics or skills by the end of grade 8?

Be sure to include curriculum expectations for all grades up to and including grade 8. Grades represent years of formal schooling. For example, if "Year 9" in your country corresponds to the eighth year of formal schooling, please choose grade 8.

(ii) Across grades from preprimary through upper secondary education, at what grade(s) are the topics primarily intended to be taught?

	stude	portion of nts expect taught top	ed to be	pre							taugi conda		12)
D. Data and Probability	All or almost all	Only the	r each line. Not included in the curriculum through grade 8	DD				-			G10		612
 a) Reading and interpreting data from one or more sources to solve problems (interpolating, extrapolating, drawing conclusions) 										09			
 b) Identifying appropriate procedures for collecting data 	\bigcirc	\odot	0										
 c) Organizing and representing data to help answer questions 	\bigcirc	\bigcirc	0										
 e) Calculating and interpreting statistics summarizing data distributions 	0	0	0										
e) Theoretical and empirical probability of simple events	\bigcirc	\bigcirc	0										
f) Theoretical and empirical probability of compound events	0	0	0										
Comments:								 					
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TIMSS 2019 Curriculum Questionnaire - Eighth Grade - SCIENCE MODULE - GRADE 8

SCIENCE MODULE - GRADE 8

To be completed by all countries participating in TIMSS at the eighth grade

This science module refers to the national curriculum that was in effect for the eighth grade students assessed in TIMSS 2019—the curriculum that covers science instruction at the eighth grade of formal schooling for the majority of students. If you do not have a national curriculum, please summarize for your state or provincial curricula.

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TIMSS 2019 Curriculum Questionnaire - Eighth Grade - About the Eighth Grade Science Curriculum

About the Eighth Grade Science Curriculum	
This science module refers to the national curriculum that was in effect for the eighth grade students assessed in TIMS curriculum that covers science instruction at the eighth grade of formal schooling for the majority of students. If you do national curriculum, please summarize for your state or provincial curricula.	
S1. Does your country have a national curriculum that covers science instruction at the eigh formal schooling?	hth grade of
Check one circle only.	
Yes No	
If Yes Comments:	
If No What is the highest level of decision-making authority (e.g., state or province) that provides curriculum that covers science instruction at the eighth grade of formal schooling?	a
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TIMSS 2019 Curriculum Questionnaire - Eighth Grade - About the Eighth Grade Science Curriculum

S2. A. In what year was the 2	018/2019 science	curriculum introd	uced?	
Comments (e.g., status of im	plementation):			
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(Continued) TIMSS - 2019 - English You are logged in as: 9996 Logout TIMSS 2019 Curriculum Questionnaire - Eighth Grade - About the Eighth Grade Science Curriculum B. Is the science curriculum currently being revised? Check one circle only. Yes No If Yes... Please explain: If No... Comments: 30/38 Table of Contents Previous Next © IEA Online SurveySystem 2019 - Help





TIMSS 2019 Curriculum Questionnaire - Eighth Grade - Curriculum Specifications

Curriculum Specifications

This science module refers to the national curriculum that was in effect for the eighth grade students assessed in TIMSS 2019—the curriculum that covers science instruction at the eighth grade of formal schooling for the majority of students. If you do not have a national curriculum, please summarize for your state or provincial curricula.

S3. Does the curriculum or any other official document prescribe the percentage of <u>total</u> instructional time to be devoted to <u>science</u> instruction at the eighth grade of formal schooling?

Check one circle only.

- Yes
- No

If Yes... Please specify the percentage:

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TIMSS 2019 Curriculum Questionnaire - Eighth Grade - Curriculum Specifications

		Check one circle fo	r each line.
		Yes	No
ı)	Visits by inspectors	0	0
	Research programs	õ	Õ
	School self-evaluation	Õ	Õ
d)	National or regional examinations	õ	0
	Other Please specify below:	Õ	0
	mments:		





TIMSS 2019 Curriculum Questionnaire - Eighth Grade - Use of Digital Devices

Use of Digital Devices
Ose of Digital Devices
This science module refers to the national curriculum that was in effect for the eighth grade students assessed in TIMSS 2019—the curriculum that covers science instruction at the eighth grade of formal schooling for the majority of students. If you do not have a national curriculum, please summarize for your state or provincial curricula.
S5. Does the national curriculum contain statements/policies about the use of digital devices (e.g., computers, tablets, calculators) in <u>grade 8 science instruction</u> ?
Check one circle only.
Yes
No
If Yes What are the statements/policies?
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TIMSS 2019 Curriculum Questionnaire - Eighth Grade - Specialist Science Teachers

assroom teachers?		
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TIMSS 2019 Curriculum Questionnaire - Eighth Grade - Eighth Grade Science Topics Covered

Eighth Grade Science Topics Covered

This science module refers to the national curriculum that was in effect for the eighth grade students assessed in TIMSS 2019—the curriculum that covers science instruction at the eighth grade of formal schooling for the majority of students. If you do not have a national curriculum, please summarize for your state or provincial curricula.

S7. (i) According to the national science curriculum, what proportion of grade 8 students should have been taught each of the following topics or skills by the end of grade 8?

Be sure to include curriculum expectations for all grades up to and including grade 8. Grades represent years of formal schooling. For example, if "Year 9" in your country corresponds to the eighth year of formal schooling, please choose grade 8.

(ii) Across grades from preprimary through upper secondary education, at what grade(s) are the topics primarily intended to be taught?

If there are not any specifications to this detail, please indicate national expectations to the best of your ability. If part of a topic does not apply [e.g., energy flow in part A topic (f)], please explain in the comment field.

	(i) Proportion of grade 8 students expected to be taught topic			(ii) Grade(s) topic is expected to be taught preprimary (PP) through the end of upper secondary (G12)													
A. Biology	All or almost all	ne circle fo Only the more able students	nr each line. Not included in the curriculum through grade 8	Check the corresponding grade(s) for PP G1 G2 G3 G4 G5 G6 G7 G8 G											G12		
 a) Differences among major taxonomic groups of organisms (plants, animals, fungi, mammals, birds, reptiles, fish, amphibians, insects) 	0	0	0														
b) Major organs and organ systems in humans and other organisms (structure/function, life processes)	0	0	0														
c) Cells, their structure and functions, including respiration and photosynthesis as cellular processes	0	0	0														
 d) Life cycles, sexual reproduction, and heredity (inherited versus acquired/learned characteristics) 	0	0	0														
 e) Role of variation and adaptation in survival/extinction of species (including fossil evidence) 	0	0	0														
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 f) Interdependence of populations of organisms in an ecosystem (e.g., carbon and water cycles, energy flow, food webs, competition, predation, human impacts on ecosystems) 	0	0	۲													
g) Human health (e.g., causes, transmission, and prevention of common infectious diseases, immunity) and the importance of diet, exercise, and other lifestyle choices in maintaining health	0	0	0													
Comments:																

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TIMSS 2019 Curriculum Questionnaire - Eighth Grade - Eighth Grade Science Topics Covered

S7. (continued)

(i) According to the national science curriculum, what proportion of grade 8 students should have been taught each of the following topics or skills by the end of grade 8?

Be sure to include curriculum expectations for all grades up to and including grade 8. Grades represent years of formal schooling. For example, if "Year 9" in your country corresponds to the eighth year of formal schooling, please choose grade 8.

(ii) Across grades from preprimary through upper secondary education, at what grade(s) are the topics primarily intended to be taught?

If there are not any specifications to this detail, please indicate national expectations to the best of your ability. If part of a topic does not apply [e.g., energy flow in part A topic (f)], please explain in the comment field.

÷.

	(i) Proportion of grade 8 students expected to be taught topic			(ii) Grade(s) topic is expected to be taught preprimary (PP) through the end of upper secondary (G12)												
B. Chemistry	All or almost all	ne circle fo Only the more able students	n												G12	
 a) Particulate structure, classification, and composition of matter (protons, neutrons, electrons, atoms, molecules, elements, compounds, mixtures) 	0	0	grade 8													
b) The periodic table as an organizing principle for the known elements	0															
c) Physical and chemical properties of matter	\bigcirc	\bigcirc	0													
 d) Mixtures and solutions (e.g., solvent, solute, concentration/dilution) 	0	0														
 e) Properties of common acids and bases (e.g., acids have pH less than 7, reactions with indicators produce color changes, acids and bases neutralize each other) 	0	0	0													
f) Characteristics of chemical reactions (e.g., transformation of reactants, evidence of chemical change)																
 g) Matter and energy in chemical reactions (conservation of matter, familiar exothermic and endothermic reactions, factors affecting reaction rates) 	0	0	0													
 h) The role of electrons in chemical bonds 	0	0	۲													
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TIMSS 2019 Curriculum Questionnaire - Eighth Grade - Eighth Grade Science Topics Covered

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TIMSS 2019 Curriculum Questionnaire - Eighth Grade - Eighth Grade Science Topics Covered

S7. (continued)

(i) According to the national science curriculum, what proportion of grade 8 students should have been taught each of the following topics or skills by the end of grade 8?

Be sure to include curriculum expectations for all grades up to and including grade 8. Grades represent years of formal schooling. For example, if "Year 9" in your country corresponds to the eighth year of formal schooling, please choose grade 8.

(ii) Across grades from preprimary through upper secondary education, at what grade(s) are the topics primarily intended to be taught?

If there are not any specifications to this detail, please indicate national expectations to the best of your ability. If part of a topic does not apply [e.g., energy flow in part A topic (f)], please explain in the comment field.

н.

	(i) Proportion of grade 8 students expected to be taught topic			(ii) Grade(s) topic is expected to be taught preprimary (PP) through the end of upper secondary (G12)												
	Check o	Check one circle for each line.				heck	the o	orre	spon	ding	grad	e(s) t	for ea	ach to	pic.	
C. Physics	All or almost all students	Only the more able students	included in the curriculum through grade 8	РР	G1	G2	G3	G4	G5	G6	G7	G8	G 9	G10	G11	G12
 a) Physical states and changes in matter (explanations of properties in terms of movement and distance between particles; phase change, changes in volume and/or pressure, physical changes) 	0	0	0													
 b) Energy transformation and transfer (e.g., forms of energy, energy conservation, heat temperature, equilibrium) 	0	0	0													
c) Basic properties/behaviors of light (reflection, refraction, color, shadows, simple ray diagrams)	\bigcirc	\bigcirc	0													
 d) Basic properties/behaviors of sound (vibrations that produce sound, transmission through media, loudness, pitch) 	0	0														
 e) Electric circuits (e.g., electrical conductors/insulators and the flow of electricity in series/parallel circuits) 	0	0	0													
f) Properties and uses of permanent magnets and electromagnets	0	0	۲													
g) Motion and forces (e.g., basic description of motion, common mechanical forces, properties of forces, effects of forces, simple machines, buoyancy, effects of density and pressure)	0	0	0													
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TIMSS 2019 Curriculum Questionnaire - Eighth Grade - Eighth Grade Science Topics Covered

S7. (continued)

(i) According to the national science curriculum, what proportion of grade 8 students should have been taught each of the following topics or skills by the end of grade 8?

Be sure to include curriculum expectations for all grades up to and including grade 8. Grades represent years of formal schooling. For example, if "Year 9" in your country corresponds to the eighth year of formal schooling, please choose grade 8.

(ii) Across grades from preprimary through upper secondary education, at what grade(s) are the topics primarily intended to be taught?

If there are not any specifications to this detail, please indicate national expectations to the best of your ability. If part of a topic does not apply [e.g., energy flow in part A topic (f)], please explain in the comment field.

н.

	(i) Proportion of grade 8 students expected to be taught topic			(ii) Grade(s) topic is expected to be taught preprimary (PP) through the end of upper secondary (G12)												
D. Earth Science	All or almost all	Only the	nr each line. Not included in the curriculum through grade 8	РР						-	-			G10		G12
 a) Earth's structure and physical features (e.g., Earth's crust, mantle, and core; composition and relative distribution of water; composition of Earth's atmosphere) 	0	0	0													
b) Earth's processes, cycles, and history (e.g., rock cycle, major geological events, formation of fossils and fossil fuels, water cycle, weather versus climate)			0													
 c) Earth's resources, their use, and conservation (e.g., renewable/nonrenewable resources, human use of land and water resources) 	0	0	0													
 d) Earth in the Solar System and the universe (phenomena on Earth: seasons, eclipses, tides, phases of moon; members of the Solar System; physical features of Earth) 		٢	0													
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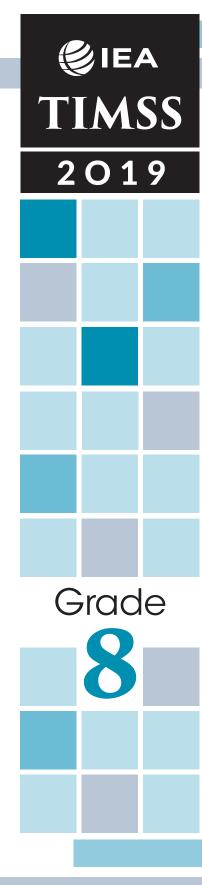
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