

TIMSS 2019 Curriculum Questionnaire Fourth Grade

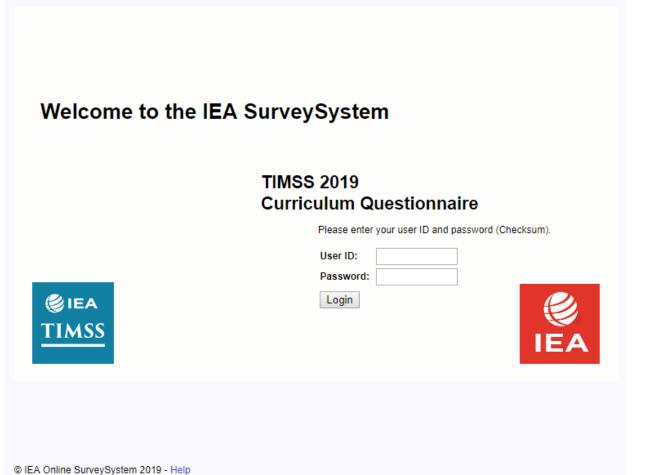




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TIMSS 2019 Curriculum Questionnaire - Fourth Grade

TIMSS 2019 Curriculum Questionnaire - Fourth 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

Table of Contents

Next



TIMSS 2019 Curriculum Questionnaire - Fourth 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 8 Curriculum Questionnaire, please skip the General Module using the Table of Contents.

Previous

1/36 Table of Contents

Next

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TIMSS - 2019 - English You are logged in as: 9998 Logout TIMSS 2019 Curriculum Questionnaire – Fourth Grade - Grade Structure and Student Flow

G1. What is your country' 8)?	's name for the grade(s) tested in TIMSS 2019, in Eng	lish (e.g., grade 4, grade
Previous	2/36 <u>Table of Contents</u>	Next
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TIMSS 2019 Curriculum Questionnaire - Fourth Grade - Grade Structure and Student Flow

school (ISCED Level 1)?	during the colonder year of their 6th highday". "Ohildren must be 6 years of	ld by the and of lune to
egin school the following Septe	ol during the calendar year of their 6th birthday"; "Children must be 6 years ol mber."	a by the end of June to
		2
3. If the official policy allo	ows some parental discretion or choice, please describe the	e usual practice.
	al policy is that students can begin school in the year when they turn 6 years	
xample: "Even though the offici		
Example: "Even though the offici	al policy is that students can begin school in the year when they turn 6 years	
Example: "Even though the offici	al policy is that students can begin school in the year when they turn 6 years	
xample: "Even though the offici	al policy is that students can begin school in the year when they turn 6 years	
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xample: "Even though the offici	al policy is that students can begin school in the year when they turn 6 years	
Example: "Even though the offici	al policy is that students can begin school in the year when they turn 6 years	
Example: "Even though the offici	al policy is that students can begin school in the year when they turn 6 years	
Example: "Even though the offici negin primary school at age 7 be	al policy is that students can begin school in the year when they turn 6 years	old, children typically
Example: "Even though the offici	al policy is that students can begin school in the year when they turn 6 years cause their parents feel they will benefit from being more mature."	
Example: "Even though the offici legin primary school at age 7 be	al policy is that students can begin school in the year when they turn 6 years cause their parents feel they will benefit from being more mature."	old, children typically
Example: "Even though the offici legin primary school at age 7 be	al policy is that students can begin school in the year when they turn 6 years cause their parents feel they will benefit from being more mature."	old, children typically





TMSS - 2019 - English You are logged in as: 9998 Logout TMSS 2019 Curriculum Questionnaire – Fourth Grade - Grade Structure and Student Flow G. A. Has the stated official policy changed in the last 10 years? Check one circle only. Yes No If Yes... B. How did the policy change, and what is the status of implementation? Previous Yable of Contents Yable of Contents Next



TIMSS 2019 Curriculum Questionnaire - Fourth Grade - Grade Structure and Student Flow

	grades) of compulsory education in your country?	
Example: "Ages 6-16 (or Grades	1-9)."	
		/
Previous	5/36 Table of Contents	Next
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7

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TIMSS - 2019 - English You are logged in as: 9998 Logout TIMSS 2019 Curriculum Question	naire – Fourth Grade - Grade Structure and Student Flow	
Level 3 (upper secondary)	Level 1, what grades of schooling are provided to s ?	tudents through ISCED
Example: "Grades 1-12."		
		//
Previous	6/36 <u>Table of Contents</u>	Next
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TIMSS 2019 Curriculum Questionnaire - Fourth Grade - Grade Structure and Student Flow

G6. Does your country have a	policy on the promotion and retention of stu	dents across grades 1-8?
	des 1-5, dependent on academic progress for grades 6-8.	
Check one circle only.		
Ves No		
Please describe:		
	7/36 Table of Contents	//
Previous		Next



	ire – Fourth Grade - Grade Structure and Student Flov a nationally mandated number of school d	
Please describe:		
Previous	8/36 <u>Table of Contents</u>	Next

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TIMSS 2019 Curriculum Questionnaire - Fourth Grade - Languages of Instruction

Languages of Inst	ruction				
8. A. State the official I	anguage(s) and deso	cribe the major lan	guage subgroups		
				/	
or example, is the instr	uction in these grad	mathematics and s es for these subjec	science in the four	rth and eighth gra he students in the	ides ir
or example, is the instr	uction in these grad	mathematics and s es for these subjec	science in the four	rth and eighth gra he students in the	ides. ir
or example, is the instr	uction in these grad	mathematics and s es for these subjec	science in the four	rth and eighth gra he students in the	ides. ir
or example, is the instr	uction in these grad	mathematics and s es for these subjec	science in the four	rth and eighth gra he students in the	ides. ir
or example, is the instr	uction in these grad	mathematics and s es for these subjec	science in the four	rth and eighth gra he students in the	ides.
or example, is the instr	uction in these grad	mathematics and s	science in the four	rth and eighth gra he students in the	ides.
or example, is the instr	uction in these grad	mathematics and s es for these subjec	science in the four	rth and eighth gra he students in the	ides.
or example, is the instr	uction in these grad	mathematics and s	science in the four	rth and eighth gra he students in the	ides.
Describe the language or example, is the instr ative language or in a s	uction in these grad econd language?	mathematics and s es for these subjec	science in the four	he students in the	ndes. Next





TIMSS 2019 Curriculum Questionnaire - Fourth 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 o	ircle for each line.			
	Yes	No			
a) ECED programs for children under age 3		\bigcirc			
b) PPE programs for children age 3 or older	\bigcirc	\bigcirc			
B. How many years can children at	tend these	programs altog	ether?		
Check one circle only.					
 1 year 					
 2 years 					
3 years					
4 or more years					
Comments:					
				/	
Previous	10/36	Table of Contents	<u>s</u>		Next
© IEA Online SurveySystem 2019 - Help				(Continue	d on Next Page)
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TIMSS 2019 Curriculum Questionnaire – Fourth Grade - Early Childhood Education

C. Does your country provide targe	ted ECED	or PPE coverage?			
Programs with targeted coverage are only av where the language spoken at home is differe			or children from low-in	come families, for child	Iren
	Check one	circle for each line.			
	Yes	No			
a) ECED programs for children under age 3	\bigcirc	0			
b) PPE programs for children age 3 or older	\bigcirc	\bigcirc			
Please describe:					
				//	
Previous	10/36	Table of Contents		1	Vext



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> TIMSS - 2019 - English You are logged in as: 9998 Logout

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TIMSS 2019 Curriculum Questionnaire - Fourth 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
 Yes
 PPE programs for children age 3 or older

 PPE programs for children age 3 or older
 Intras for Contents

 Previous

 11/36

 Previous

 11/36



(Continued on Next Page)

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TIMSS - 2019 - English You are logged in as: 9998 Logout (Continued)

TIMSS 2019 Curriculum Questionnaire – Fourth 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.

	ECED programs		PPE pro	ograms
	Yes	No	Yes	No
a) Socio-emotional development	\bigcirc	0	0	\bigcirc
b) Physical development and health education	0	0	0	0
c) Oral language development and communication skills	\bigcirc	\odot	0	\bigcirc
d) Reading and literacy skills	0		0	0
e) Mathematics and numeracy skills	\bigcirc	\bigcirc	0	\bigcirc
f) Science including understanding the natural world (e.g., weather)	0	0	0	0
g) Other Please specify below:	\bigcirc	\odot	0	\bigcirc

Comments:

Previous

11/36 Table of Contents

Next





TIMSS 2019 Curriculum Questionnaire – Fourth Grade - Examinations

Examinations		
examinations that have	tional authority in your country (e.g., National Ministry of Ed e consequences for individual students, such as entry to a h nd/or exiting or graduating from secondary school?	lucation) administer igher school system,
Check one circle only.		
Yes		
No		
If Yes B. Please describe the purpose of each exam.	grades at which the exams are given, the subjects that are a	assessed, and the
Example: "There is an exam i secondary school."	including language and mathematics given at the end of grade 8 to determine	placement for entry to
		_//
Previous	12/36 <u>Table of Contents</u>	Next





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TIMSS - 2019 - English You are logged in as: 9998 Logout

TIMSS 2019 Curriculum Questionnaire - Fourth Grade - Teacher Preparation

Teacher Preparatio	on	
12. A. What is the <u>main</u>	preparation route(s) for teachers of students in the <u>f</u>	ourth grade?
xample: "Most teachers receive rogram, but that is becoming le	their education through a university degree program. Some have a so common."	attended a teacher college
	1926 Table of Contents	
Previous	13/36 <u>Table of Contents</u>	Next

© IEA Online SurveySystem 2019 - Help

(Continued on Next Page)





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TIMSS 2019 Curriculum Questionnaire - Fourth Grade - Teacher Preparation

B. According to the main teacher preparation route, what are the current requirements for being a teacher of students in the fourth grade? Check one circle for each line. Yes No a) Supervised practicum during the teacher education program. If Yes.. How long is this period? b) Passing a qualifying examination (e.g., licensing, certification). c) Completion of a probationary teaching \bigcirc \bigcirc period. If Yes... How long is this period? d) Completion of a mentoring or induction \bigcirc program (e.g., experienced teachers work with novice teachers to provide instructional guidance). e) Other \bigcirc Please specify below: 13/36 Table of Contents Previous Next (Continued on Next Page) © IEA Online SurveySystem 2019 - Help



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i are logged in as: 9998 Logout		
ISS 2019 Curriculum Questionnaire – Fourth Grade - Teacher Preparation		
C. Are there additional requirements for teachers of mathematics and scier	nce in the <u>fourth grade</u> ?	
Check one circle only.		
Ves		
No		
f Yes		
D. What are they?		
E. In the last 10 years, has there been a change in the stated official policy being a teacher of students in the <u>fourth grade</u> ?	about the requirements for	
being a teacher of students in the <u>fourth grade</u> ?	about the requirements for	
being a teacher of students in the <u>fourth grade</u> ? Check one circle only.	about the requirements for	
being a teacher of students in the <u>fourth grade</u> ?	about the requirements for	
Deing a teacher of students in the <u>fourth grade</u> ? Check one circle only. Yes No	about the requirements for	
 being a teacher of students in the <u>fourth grade</u>? Check one circle only. Yes No f Yes 	about the requirements for	
 being a teacher of students in the <u>fourth grade</u>? Check one circle only. Yes No F Yes How did the policy change, and what is the status of implementation? 		
 being a teacher of students in the <u>fourth grade</u>? Check one circle only. Yes No No f Yes How did the policy change, and what is the status of implementation? 		
 being a teacher of students in the <u>fourth grade</u>? Check one circle only. Yes No F Yes How did the policy change, and what is the status of implementation? 		
 being a teacher of students in the <u>fourth grade</u>? Check one circle only. Yes No F Yes How did the policy change, and what is the status of implementation? 		
 being a teacher of students in the <u>fourth grade</u>? Check one circle only. Yes No F Yes How did the policy change, and what is the status of implementation? 		
 being a teacher of students in the <u>fourth grade</u>? Check one circle only. Yes No Yes F Yes How did the policy change, and what is the status of implementation? 		
 being a teacher of students in the <u>fourth grade</u>? Check one circle only. Yes No If Yes F. How did the policy change, and what is the status of implementation? 		
0		
being a teacher of students in the <u>fourth grade</u> ? Check one circle only. Yes No If Yes F. How did the policy change, and what is the status of implementation?		
 being a teacher of students in the <u>fourth grade</u>? Check one circle only. Yes No If Yes F. How did the policy change, and what is the status of implementation? 		
 being a teacher of students in the <u>fourth grade</u>? Check one circle only. Yes No If Yes F. How did the policy change, and what is the status of implementation? 		
being a teacher of students in the <u>fourth grade</u> ? Check one circle only. Yes No If Yes F. How did the policy change, and what is the status of implementation?		



IMSS 2019 Curriculum Ques						
G13. A. Is the <u>main</u> pre main preparation route	eparation route(s) e(s) at the <u>fourth g</u>	for teac I <u>rade</u> ?	hers of students	in the <u>eighth</u>	g <u>rade</u> differen	t from th
Check one circle only.						
Yes						
No						
If Yes B. If the main preparat <u>main</u> preparation route	ion route(s) for te	achers o	of students in th	e <u>eighth grade</u>	is different, w	hat is the



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TIMSS - 2019 - English You are logged in as: 9998 Logout (Continued)

TIMSS 2019 Curriculum Questionnaire - Fourth Grade - Teacher Preparation

		Check one circle for each line.
	Yes	No
Supervised practicum during the teacher education program.	0	0
If Yes How long is this period?		
Passing a qualifying examination (e.g., licensing, certification).	\bigcirc	0
Completion of a probationary teaching period.	0	0
If Yes How long is this period?		
Completion of a mentoring or induction program (e.g., experienced teachers work with novice teachers to provide instructional guidance).	•	
Other Please specify below:	0	0
If there are additional requirement e different than in the fourth grade	ts for teachers of ma , what are they?	nthematics and science in the <u>eighth grade</u> th
If there are additional requirement e different than in the fourth grade	ts for teachers of ma , what are they?	athematics and science in the <u>eighth grade</u> th
If there are additional requirement e different than in the fourth grade	ts for teachers of ma , what are they?	nthematics and science in the <u>eighth grade</u> th
. If there are additional requirement e different than in the fourth grade	ts for teachers of ma , what are they?	thematics and science in the <u>eighth grade</u> th
. If there are additional requirement e different than in the fourth grade	ts for teachers of ma , what are they?	nthematics and science in the <u>eighth grade</u> th
. If there are additional requirement re different than in the fourth grade	ts for teachers of ma , what are they?	nthematics and science in the <u>eighth grade</u> th

Grade 4 CURRICULUM QUESTIONNAIRE 21

MSS - 2019 - English		(Continued)
u are logged in as: 9998 Log	gout stionnaire – Fourth Grade - Teacher Preparation	
being a teacher of stud	has there been a change in the stated offici dents in the <u>eighth grade</u> ?	ial policy about the requirements for
Check one circle only.		
Yes		
No		
<i>If Yes</i> F. How did the policy cl	hange, and what is the status of implement	tation?



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TIMSS - 2019 - English You are logged in as: 9998 Logout

TIMSS 2019 Curriculum Questionnaire - Fourth Grade - Principal Preparation

Principal Preparation			
14. A. What is the <u>main</u> preparation route(s) for princ	ipals of sc	hools with <u>for</u>	urth grade students?
Example: "In addition to receiving their teaching qualifications, most p	rincipals have	a degree in educ	ational leadership."
3. According to the <u>main</u> principal preparation route, v principal of a school with <u>fourth grade</u> students?	what are the	e current requ	lirements for being a
c	heck one circ	le for each line.	
	Yes	No	
 a) Teaching experience b) Completion of a specialized school leadership training program 	0	0	
(including a school leadership degree program)		-	
c) Other Please specify below:	\bigcirc	0	
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Previous 15/36 Table of	Contents		Next
			Hon
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TIMES 2040 English		(Continued)
TIMSS - 2019 - English You are logged in as: 9998 Logout		(common)
TIMSS 2019 Curriculum Question	nnaire – Fourth Grade - Principal Preparation	
	s there been a change in the stated officia ool with <u>fourth grade</u> students?	al policy about the requirements
Check one circle only.		
Yes		
No		
If Yes		
D. How did the policy cha	nge, and what is the status of implement	ation?
Previous	15/36 <u>Table of Contents</u>	N



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TIMSS - 2019 - English You are logged in as: 9998 Logout

TIMSS 2019 Curriculum Questionnaire – Fourth Grade - Principal Preparation

Check one circle only. Yes No			
0 No.			
If Yes B. If the main preparation route(s) for principals of school is their <u>main</u> preparation route?	ols with <u>e</u>	<u>ighth grade</u>	students is different
Example: "In addition to receiving their teaching qualifications, most print	cipals have	a degree in edi	ucational leadership."
	Yes	No	
a) Teaching experience	\bigcirc	\bigcirc	
b) Completion of a specialized school leadership training program (including a school leadership degree program)	\bigcirc	\bigcirc	
	0	0	
c) Other			
c) Other Please specify below:			
	ontents		
Please specify below:	ontents		
Please specify below:	ontents		
Please specify below:	ontents		
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Please specify below: Previous 16/36 Table of Comparison 16/36 Table	ontents		

MSS - 2019 - English u are logged in as: 9998 Logout		(Continued)
	aire – Fourth Grade - Principal Preparation	
D. In the last 10 years, has t	there been a change in the stated off ol with <u>eighth grade</u> students?	icial policy about the requirements fo
Check one circle only.	or with <u>eightir grade</u> students :	
Yes		
No		



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TIMSS - 2019 - English You are logged in as: 9998 Logout

TIMSS 2019 Curriculum Questionnaire - Fourth Grade - MATHEMATICS MODULE - GRADE 4

MATHEMATICS MODULE - GRADE 4

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

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

Previous

17/36 Table of Contents

Next





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

	de Mathematics Curriculur		
e curriculum that covers mathemati	e national curriculum that was in effec cs instruction at the fourth grade of pr ease summarize for your state or provi	imary/elementary school for the m	
1. Does your country have a rade of primary/elementary	a national curriculum that cov school?	vers mathematics instructi	on at the fourth
heck one circle only.			
) Yes			
No			
Yes omments:			
			11
hat is the highest level of d	ecision-making authority (e.g ematics instruction at the four		
hat is the highest level of d			
hat is the highest level of d			
hat is the highest level of d			
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hat is the highest level of d			
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TIMSS 2019 Curriculum Questionnaire - Fourth Grade - About the Fourth Grade Mathematics Curriculum

M2. A. In what year was the 2	2018/2019 mathen	natics curriculum i	ntroduced?	
Comments (e.g., status of im	plementation):			
			//	
Previous	19/36	Table of Contents		Next
© IEA Online SurvevSvstem 2019 - He	lD		(Con	tinued on Next Page)



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TIMES 2019 CULTECHIUM CHESTON	naire – Fourth Grade - About the Fourth Grade Ma	thematics Curriculum
	iculum currently being revised?	
Check one circle only.		
Yes		
No		
<i>If Yes…</i> Please explain:		
If No Comments:		

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TIMSS 2019 Curriculum Questionnaire – Fourth Grade - Curriculum Specifications

Curriculum Specifications

This mathematics module refers to the national curriculum that was in effect for the fourth grade students assessed in TIMSS 2019 the curriculum that covers mathematics instruction at the fourth grade of primary/elementary school 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 fourth grade of primary/elementary school?

Check one circle only.

-	Vec
0	res

No

If Yes... Please specify the percentage:

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Previous	

20/36 Table of Contents

Next



TIMSS 2019 Curriculum Questionnaire - Fourth Grade - Curriculum Specifications

	Check one circle for each line.		
	Yes	No	
Visits by inspectors	\bigcirc	\bigcirc	
Research programs	0	0	
) School self-evaluation	0	\bigcirc	
d) National or regional examinations	0	•	
 Other Please specify below: 	0	\bigcirc	
iments:			

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

Use of Digital Devices	
This mathematics module refers to the national curriculum that was in effect for the curriculum that covers mathematics instruction at the fourth grade of primary do not have a national curriculum, please summarize for your state or provincial	//elementary school for the majority of students. If you
M5. A. Does the national curriculum contain statements/polici computers, tablets, calculators) in <u>grade 4 mathematics instru</u>	
Check one circle only.	
Yes	
No	
<i>If Yes…</i> What are the statements/policies?	
	//
Previous 22/36 Table of Contents	S Nava
Previous 22/36 lable of Contents	Next
© IEA Online SurveySystem 2019 - Help	(Continued on Next Page)



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2019	
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(Continued)

Logout

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

B. Does the national curriculun computers, tablets, calculators	n contain statements/policies about stude) in grade 4 mathematics <u>tests</u> or <u>examina</u>	nt use of digital devices (e.g., <u>itions</u> ?
Check one circle only.		
Yes		
No		
<i>If Yes</i> What are the statements/policie	es?	
•		
Comments:		
L		
Previous	22/36 Table of Contents	Next



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TIMSS - 2019 - English You are logged in as: 9998 Logout			
TIMSS 2019 Curriculum Questionnaire – Fourth G	Grade - S	Specialist Mathematics Teachers	
Specialist Mathematics Teache	ers		
M6. At what grade(s) are students first classroom teachers?	taught	by mathematics subject specialists rathe	r than general
Previous	23/36	Table of Contents	Next
© IEA Online SurveySystem 2019 - Help			





TIMSS 2019 Curriculum Questionnaire - Fourth Grade - Fourth Grade Mathematics Topics Covered

Fourth Grade Mathematics Topics Covered

This mathematics module refers to the national curriculum that was in effect for the fourth grade students assessed in TIMSS 2019 the curriculum that covers mathematics instruction at the fourth grade of primary/elementary school 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 4 students should have been taught each of the following topics or skills by the end of grade 4?

Be sure to include curriculum expectations for all grades up to and including grade 4. Grades represent years of formal schooling. For example, if "Year 5" in your country corresponds to the fourth year of formal schooling, please choose grade 4.

(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., odd and even numbers in part A topic (c)], please explain in the comment field.

	stude	portion of nts expect taught top	ed to be	pr										taugi conda		12)
	All or almost all	Only the more able	r each line. Not included in the curriculum through							-	-			ach to		
A. Number		students	grade 4	PP	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12
 a) Concepts of whole number including place value and ordering 	s, 🔘	0	\odot													
 b) Adding, subtracting, multipl and dividing with whole nur 		0	0													
c) Concepts of multiples and factors; odd and even num	bers	\bigcirc	0													
 d) Number sentences (finding missing number, represent problem situations with nur sentences) 	ing	0														
 e) Number patterns (extendin number patterns and findin missing terms) 		0	0													
f) Concepts of fractions, inclu representing, comparing ar ordering, adding and subtra simple fractions	nd	0	۲													
g) Concepts of decimals, incluptace value and ordering, a and subtracting with decimation	dding	0	0													
Previous		24/36	Table of C	onte	ents								[Nex	t

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S - 2019 - English			(Continued)	
re logged in as: 9998 Logout				
3 2019 Curriculum Question	naire – Fourth Grade - F	Fourth Grade Mathematics Topics Co	vered	
mments:				
			/	
revious	24/36	Table of Contents	Nex	t



TIMSS 2019 Curriculum Questionnaire - Fourth Grade - Fourth Grade Mathematics Topics Covered

M7. (continued)

(i) According to the national mathematics curriculum, what proportion of grade 4 students should have been taught each of the following topics or skills by the end of grade 4?

Be sure to include curriculum expectations for all grades up to and including grade 4. Grades represent years of formal schooling. For example, if "Year 5" in your country corresponds to the fourth year of formal schooling, please choose grade 4.

(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., odd and even numbers in part A topic (c)], please explain in the comment field.

	stude	portion of nts expect taught top	ted to be	pr								taug conda	ht ary (G	12)
B. Measurement and Geometry	All or almost all	ne circle fo Only the more able students	r each line. Not included in the curriculum through grade 4						-	-		ach to		612
a) Solving problems involving length, including measuring and estimating			grade 4				0				09			
b) Solving problems involving mass, volume, and time	\bigcirc	\bigcirc	\bigcirc											
c) Finding and estimating perimeter, area, and volume	\bigcirc	\bigcirc	\bigcirc											
d) Parallel and perpendicular lines	0	0	0											
e) Comparing and drawing angles	\bigcirc	\bigcirc	\bigcirc		G1 G2 G3 G4 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII									
f) Elementary properties of common geometric shapes	\bigcirc	0	0											
 g) Three-dimensional shapes, including relationships with their two-dimensional representations 	\bigcirc	\bigcirc	0											
Comments:														
Previous		25/36	Table of C	Conte	<u>ents</u>								Nex	t

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M7. (continued) i) According to the national been taught each of the follo Be sure to include curriculum expect example, if "Year 5" in your country c	wing top ations for a correspond	oics or sl Il grades u s to the fou	kills by the p to and inclu rth year of fo	e end uding rmal s	d of grad scho	gra le 4. oling	de 4 Grad , plea	es re ase c	pres hoos	ent y ie gra	/ears ade 4	of fo 4.	rmal	scho	oling.	. Fo
ii) Across grades from preparing the primarily intended to be taugonal to be taug		irough u	pper seco	ndai	ry e	duc	atio	n, a	twn	at ç	grad	e(s)	are	the	top	ICS
f there are not any specifications to a not apply [e.g., odd and even numbe									of y	our a	bility	lf p	art of	a top	oic do	es
	stude	portion of nts expect taught top	ted to be	pre										taug conda	ht ary (G	12
	Check o All or almost all	Only the	r each line. Not included in the curriculum through		Cl	heck	the c	orre	spon	ding	grad	e(s) i	for ea	ach to	opic.	
C. Data		students		РР	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G
 Reading and interpreting data from tables, pictographs, bar graphs, line graphs, and pie charts 	0	0	0													
 Organizing and representing data to help answer questions 	0	0	0													
) Drawing conclusions from data displays	\bigcirc	\bigcirc	0													
comments:																
												7				
											/	2				
		26/36	Table of C	Conte	ents								[Nex	đ
Previous													l			**





TIMSS 2019 Curriculum Questionnaire - Fourth Grade - SCIENCE MODULE - GRADE 4

SCIENCE MODULE - GRADE 4

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

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

Previous

27/36 Table of Contents

Next

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TIMSS - 2019 - English You are logged in as: 9998 Logout

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

About the Fourth Grade Science Curriculum	
This science module refers to the national curriculum that was in effect for the fourth grade students assessed in TIM curriculum that covers science instruction at the fourth grade of primary/elementary school for the majority of student have a national curriculum, please summarize for your state or provincial curricula.	
S1. Does your country have a national curriculum that covers science instruction at the fo primary/elementary school?	urth grade of
Check one circle only.	
Yes No	
If Yes Comments:	
<i>If No…</i> What is the highest level of decision-making authority (e.g., state or province) that provide curriculum that covers science instruction at the fourth grade of primary/elementary schoo	sa bl?
Previous 28/36 Table of Contents	Next
IEA Online SurveySystem 2019 - Help	



455		
19		
TIMSS - 2019 - English		
You are logged in as: 9998 Logour		
TIMSS 2019 Curriculum Question	nnaire – Fourth Grade - About the Fourth Grade Science Cur	riculum
S2. A. In what year was th	e 2018/2019 science curriculum introduced?	
Comments (e.g., status o	f implementation):	
		/
Previous	29/36 Table of Contents	Nex

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SS - 2019 - English are logged in as: 9998 Logout	(Contir	iued)	
SS 2019 Curriculum Questionnaire - Fourth Grade - About the Fourth Grade Science Curriculum	I		
. Is the science curriculum currently being revised?			٦
heck one circle only.			
Ves			
No			
Yes			
lease explain:			
	//		
No			
omments:			
Previous 29/36 Table of Contents		Next	

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TIMSS 2019 Curriculum Questionnaire - Fourth Grade - Curriculum Specifications

Curriculum Specifications

This science module refers to the national curriculum that was in effect for the fourth grade students assessed in TIMSS 2019—the curriculum that covers science instruction at the fourth grade of primary/elementary school 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 fourth grade of primary/elementary school?

Check one circle only.

Yes

No

If Yes... Please specify the percentage:

P	revi	ous	

Comments:

30/36 Table of Contents

Next

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TIMSS 2019 Curriculum Questionnaire - Fourth Grade - Curriculum Specifications

		Check one circle i	for each line.
		Yes	No
	Visits by inspectors	0	0
	Research programs	ŏ	Ŏ
	School self-evaluation	ŏ	ŏ
	National or regional examinations		Õ
e)	Other Please specify below:	0	0
	omments:		
	Previous	31/36	Table of Contents
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TIMSS 2019 Curriculum Questionnaire - Fourth Grade - Use of Digital Devices

Use of Digital Devices		
curriculum that covers science instruc	ional curriculum that was in effect for the fourth grade student tion at the fourth grade of primary/elementary school for the r mmarize for your state or provincial curricula.	
	lum contain statements/policies about the use or rs) in grade 4 science instruction?	of digital devices (e.g.,
Check one circle only.		
Yes		
No		
If Yes What are the statements/polic	cies?	
		//
Previous	32/36 Table of Contents	Next
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TIMSS
2019

TIMSS - 2019 - English You are logged in as: 9998 Logout

TIMSS 2019 Curriculum Questionnaire - Fourth Grade - Specialist Science Teachers

Specialist Science	Teachers									
S6. At what grade(s) are students first taught by science subject specialists rather than general classroom teachers?										
			<i>li</i>							
Previous	33/36	Table of Contents		Next						
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TIMSS 2019 Curriculum Questionnaire - Fourth Grade - Fourth Grade Science Topics Covered

Fourth Grade Science Topics Covered

This science module refers to the national curriculum that was in effect for the fourth grade students assessed in TIMSS 2019—the curriculum that covers science instruction at the fourth grade of primary/elementary school 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 4 students should have been taught each of the following topics or skills by the end of grade 4?

Be sure to include curriculum expectations for all grades up to and including grade 4. Grades represent years of formal schooling. For example, if "Year 5" in your country corresponds to the fourth year of formal schooling, please choose grade 4.

(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., birds in part A topic (a)], please explain in the comment field.

	stude	portion of nts expect taught top	ted to be	pr										taugi conda	ht iry (G	12)
	Check o	ne circle fo Only the	or each line. Not included in the		С	heck	the (corre	spon	nding	grad	le(s)	for ea	ach to	pic	
A. Life Science	almost all students	more able students	curriculum through grade 4	рр	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12
 a) Physical and behavioral characteristics of living things and major groups of living things (e.g., mammals, birds, insects, flowering plants) 	0	0	0													
b) Major body structures and their functions in humans, other animals, and plants	\bigcirc	0														
c) Life cycles of common plants and animals (e.g., flowering plants, butterflies, frogs)	\bigcirc	\bigcirc	0													
 d) Characteristics of plants and animals that are inherited 	\bigcirc	\bigcirc	0													
 e) Interactions between organisms and their environments (e.g., physical features and behaviors that help living things survive in their environments) 	0	0	0													
f) Relationships in ecosystems (e.g., simple food chains, predator-prey relationships, competition)	0	0														
 g) Human health (transmission and prevention of diseases, everyday behaviors that promote good health) 	0	0	0													
Previous		34/36	Table of C	Conte	ents								[Nex	t

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			WILA
			TIMSS
			2019
TIMSS - 2019 - English You are logged in as: 9998 Logou	t	(Continued)	
TIMSS 2019 Curriculum Questio	nnaire - Fourth Grade - Fourth Grade Science Topics Con	vered	
Comments:			
		//	
Previous	34/36 <u>Table of Contents</u>	Next	
IEA Online SurveySystem 2019	- Help		



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

S7. (continued)

(i) According to the national science curriculum, what proportion of grade 4 students should have been taught each of the following topics or skills by the end of grade 4?

Be sure to include curriculum expectations for all grades up to and including grade 4. Grades represent years of formal schooling. For example, if "Year 5" in your country corresponds to the fourth year of formal schooling, please choose grade 4.

(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., birds in part A topic (a)], please explain in the comment field.

.

	(i) Proportion of grade 4 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 the corresponding grade(s) for each topic												
	All or almost all	Only the more able	r each line. Not included in the curriculum through							-	-						
B. Physical Science a) States of matter (solid, liquid,		students	0	PP	G1	G2	63	G4	65	G6	G/	G8	G9	G10	G11	G12	
gas) and their properties (volume, shape)	0	\odot	0														
 b) Classifying materials based on physical properties (e.g., weight/mass, volume, state of matter, conductivity of heat or electricity) 			0														
c) Mixtures, including methods for separating a mixture into its components (e.g., sifting, filtering, evaporation, using a magnet)	0	0	0														
 d) Properties of magnets (e.g., like poles repel and opposite poles attract, magnets can attract some objects) 	0	0	0														
 e) Physical changes in everyday life (e.g., changes of state, dissolving) 	\bigcirc	\bigcirc	0														
f) Chemical changes in everyday life (e.g., decaying, burning, rusting, cooking)	0	0	•														
 g) Common sources of energy (e.g., the Sun, wind, oil) and uses of energy (heating and cooling homes, providing light) 	0	0	0														
 h) Light and sound in everyday life (e.g., shadows and reflections, vibrating objects make sound) 	0		۲														
Previous		35/36	Table of C	Conte	ents								[Nex	t	

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IEA
TIMSS
2019

TIMSS - 2019 - English You are logged in as: 9998 Logout

(Continued)

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

i)	Heat transfer (e.g., energy flows from a hot object to a colder object)	\bigcirc	\bigcirc	0								
j)	Electricity and simple electrical circuits (e.g., a circuit must be complete to work correctly)	0	0	0								
k)	Forces that cause objects to move (e.g., gravity, pushing/pulling) or change their motion (e.g., friction)	0	0	0								
I)	Simple machines (e.g., levers, pulleys, wheels, ramps) that help make motion easier	0		0								
C	omments:											
									/			
	Previous		35/36	Table of	Conte	ents				[Nex	t
	Previous		35/36	Table of	Conte	ents				[Nex	t



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

S7. (continued)

(i) According to the national science curriculum, what proportion of grade 4 students should have been taught each of the following topics or skills by the end of grade 4?

Be sure to include curriculum expectations for all grades up to and including grade 4. Grades represent years of formal schooling. For example, if "Year 5" in your country corresponds to the fourth year of formal schooling, please choose grade 4.

(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., birds in part A topic (a)], please explain in the comment field.

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	stude	portion of nts expect taught top	ted to be	pr										taugi conda		12)
	Check o	ne circle fo Only the	or each line. Not included in the		С	heck	the o	corre	spon	nding	grad	le(s)	for ea	ach to	pic	
C. Earth Science	almost all students	more able students	curriculum through grade 4	рр	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12
 a) Physical makeup of Earth's surface (e.g., land and water in unequal proportions, sources of fresh and salt water) 	0	0	0													
b) Earth's resources used in everyday life (e.g., water, wind, soil, forests, oil, natural gas, minerals)	0	0	٢													
c) Changes in Earth's surface over time (e.g., mountain building, weathering, erosion)	\bigcirc	\bigcirc	0													
 d) Fossils and what they can tell us about past conditions on Earth 	\bigcirc	\bigcirc	0													
 e) Weather and climate (e.g., daily, seasonal, and locational variations versus long term trends) 	0	0	0													
f) Objects in the Solar System (the Sun, the Earth, the Moon, and other planets) and their movements	0	0														
g) Earth's motion and related patterns observed on Earth (e.g., day and night, seasons)	0	0	0													

Previous

36/36 Table of Contents

Next

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		T	IMS
		2	01
IMSS - 2019 - English 'ou are logged in as: 9998 Logout		(Continued)	
IMSS 2019 Curriculum Questionnaire	- Fourth Grade - Fourth Grade Science Topics Covered	d	
Comments:			
		//	
Previous	36/36 <u>Table of Contents</u>	Next	
IEA Online SurveySystem 2019 - Help			





TIMSS 2019 Curriculum Questionnaire – Fourth Grade

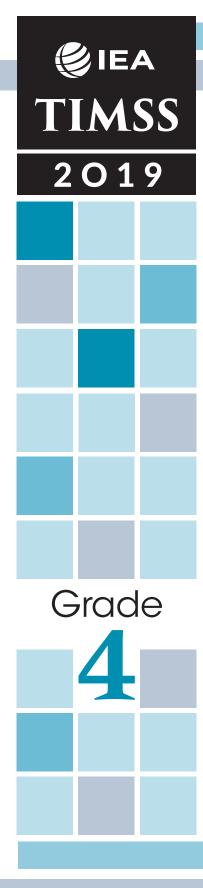
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