



IEA

TIMSS
LONGITUDINAL

2023–2024

Identification Label

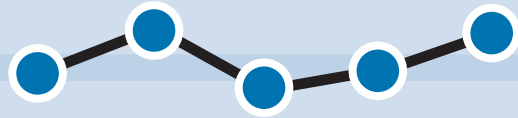
TRENDS IN INTERNATIONAL MATHEMATICS AND SCIENCE STUDY

School Questionnaire

<Grade 9>

<TIMSS National Research Center Name>

<Address>



IEA

TIMSS & PIRLS
International Study Center
Lynch School of Education
BOSTON COLLEGE

School Questionnaire

Last year your school was selected to participate in TIMSS 2023 (Trends in International Mathematics and Science Study) Longitudinal, an educational research project sponsored by the International Association for the Evaluation of Educational Achievement (IEA). TIMSS 2023 Longitudinal follows students for one year (from 2023 to 2024) to measure learning gains in mathematics and science achievement and studies differences in national education systems 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 the students in your school were selected as part of a nationwide sample, your responses are very important in helping to describe secondary education in <country> and to explain students' learning gains.

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. You may have completed a similar questionnaire last school year as part of data collection for TIMSS 2023; if this is the case, we ask that you please complete this follow up questionnaire to help us measure school factors related to students' learning gains and achievement over time.

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 <country>. 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.

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

<Insert country-specific information here>.

Thank you.

TIMSS 2023 LONGITUDINAL

1

What is the total enrollment of <ninth grade> students in your school as of <first day of month TIMSS testing begins, 2024>?

BCBLG01

_____ students
Write in the number.

2

Approximately what percentage of students in your school have the following backgrounds?

Check **one** circle for each line.

	0 to 10%	11 to 25%	26 to 50%	More than 50%
a) Come from economically disadvantaged homes -----	☐	☐	☐	☐
b) Come from economically affluent homes -----	☐	☐	☐	☐

BCBLG02A

BCBLG02B

3

Approximately what percentage of students in your school have <language of test> as their native language?

BCBLG03

Check **one** circle only.

More than 90% --- ☐

76 to 90% --- ☐

51 to 75% --- ☐

26 to 50% --- ☐

25% or less --- ☐

4

For the <ninth grade> students in your school:

A. How many days per year is your school open for instruction?

BCBLG04A

_____ days
Write in the number.

B. What is the total instructional time, excluding breaks, in a typical day?

BCBLG04B

_____ minutes
Write in the number of minutes per day.
Please convert the number of hours into minutes.

C. In one calendar week, how many days is the school open for instruction?

BCBLG04C

Check **one** circle only.

6 days --- ☐

5 1/2 days --- ☐

5 days --- ☐

4 1/2 days --- ☐

4 days --- ☐

Other --- ☐

5

How many computers (including tablets) does your school have for use by <ninth grade> students?

BCBLG05

_____ computers
Write in the number.

6

What access do <ninth grade> students in your school have to computers or tablets?

Check **one** circle for each line.

Yes
No

a) The school has a physical computer lab where teachers can reserve time during class -----

☐ — ☐

b) The school has a physical computer lab that students can use before or after school or during class breaks -----

☐ — ☐

c) The school has mobile laptops or tablets that teachers can reserve to use during class -----

☐ — ☐

d) The school provides laptops or tablets that students can use for class and take home -----

☐ — ☐

7

Does your school have a science laboratory that can be used by <ninth grade> students?

BCBLG07

Check **one** circle only.

Yes --- ☐

No --- ☐

8

Does your school use an online learning management system to support learning (e.g., teacher-student communication, management of grades, student access to course materials)?

BCBLG08

Check **one** circle only.

Yes --- ☐

No --- ☐

9

Do students in your school have access to high speed internet?

BCBLG09

Check **one** circle only.

Yes --- ☐

No --- ☐

How much is your school's capacity to provide instruction affected by a shortage or inadequacy of the following?

Check **one** circle for each line.

Not at all
A little
Some
A lot

A. General School Resources

- BCBLG10AA a) Instructional materials (e.g., textbooks) ----- ☐ — ☐ — ☐ — ☐
- BCBLG10AB b) Supplies (e.g., papers, pencils, materials) ----- ☐ — ☐ — ☐ — ☐
- BCBLG10AC c) School buildings and grounds ----- ☐ — ☐ — ☐ — ☐
- BCBLG10AD d) Heating/cooling and lighting systems ----- ☐ — ☐ — ☐ — ☐
- BCBLG10AE e) Instructional space (e.g., classrooms) ----- ☐ — ☐ — ☐ — ☐
- BCBLG10AF f) Technologically competent staff ----- ☐ — ☐ — ☐ — ☐
- BCBLG10AG g) Audio-visual resources for delivery of instruction (e.g., interactive white boards, digital projectors) ----- ☐ — ☐ — ☐ — ☐
- BCBLG10AH h) Digital devices for student use ----- ☐ — ☐ — ☐ — ☐
- BCBLG10AI i) Resources for students with disabilities ----- ☐ — ☐ — ☐ — ☐

Check **one** circle for each line.

Not at all
A little
Some
A lot

B. Resources for Mathematics Instruction

- BCBLG10BA a) Teachers with a specialization in mathematics ----- ☐ — ☐ — ☐ — ☐
- BCBLG10BB b) Computer software/ applications for mathematics instruction ----- ☐ — ☐ — ☐ — ☐
- BCBLG10BC c) Library resources relevant to mathematics instruction ----- ☐ — ☐ — ☐ — ☐
- BCBLG10BD d) Calculators for mathematics instruction ----- ☐ — ☐ — ☐ — ☐
- BCBLG10BE e) Concrete objects or materials to help students understand quantities or procedures ----- ☐ — ☐ — ☐ — ☐

C. Resources for Science Instruction

- BCBLG10CA a) Teachers with a specialization in science ----- ☐ — ☐ — ☐ — ☐
- BCBLG10CB b) Computer software/ applications for science instruction ----- ☐ — ☐ — ☐ — ☐
- BCBLG10CC c) Library resources relevant to science instruction ----- ☐ — ☐ — ☐ — ☐
- BCBLG10CD d) Calculators for science instruction ----- ☐ — ☐ — ☐ — ☐
- BCBLG10CE e) Science equipment and materials for experiments ----- ☐ — ☐ — ☐ — ☐

11

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

Check **one** circle for each line.

Very high
High
Medium
Low
Very low

- BCBLG11A Teachers' understanding of the school's curricular goals --- ☐ --- ☐ --- ☐ --- ☐ --- ☐
- BCBLG11B Teachers' degree of success in implementing the school's curriculum ----- ☐ --- ☐ --- ☐ --- ☐ --- ☐
- BCBLG11C Teachers' expectations for student achievement ----- ☐ --- ☐ --- ☐ --- ☐ --- ☐
- BCBLG11D Teachers' ability to inspire students ----- ☐ --- ☐ --- ☐ --- ☐ --- ☐
- BCBLG11E Parental involvement in school activities ----- ☐ --- ☐ --- ☐ --- ☐ --- ☐
- BCBLG11F Parental commitment to ensure that students are ready to learn ----- ☐ --- ☐ --- ☐ --- ☐ --- ☐
- BCBLG11G Parental expectations for student achievement ----- ☐ --- ☐ --- ☐ --- ☐ --- ☐
- BCBLG11H Parental support for student achievement ----- ☐ --- ☐ --- ☐ --- ☐ --- ☐
- BCBLG11I Students' desire to do well in school ----- ☐ --- ☐ --- ☐ --- ☐ --- ☐
- BCBLG11J Students' ability to reach school's academic goals ----- ☐ --- ☐ --- ☐ --- ☐ --- ☐
- BCBLG11K Students' respect for classmates who excel academically ----- ☐ --- ☐ --- ☐ --- ☐ --- ☐

12

How much do you agree with these statements about mathematics and science education within your school?

Check **one** circle for each line.

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

- BCBLG12A The school provides students with information about career options in mathematics and science ----- ☐ --- ☐ --- ☐ --- ☐
- BCBLG12B The school has initiatives to promote student interest in mathematics and science (e.g., student clubs, competitions) ----- ☐ --- ☐ --- ☐ --- ☐
- BCBLG12C The school provides special activities in mathematics and science for interested students ----- ☐ --- ☐ --- ☐ --- ☐
- BCBLG12D The school emphasizes the importance of studying mathematics and science in the future ----- ☐ --- ☐ --- ☐ --- ☐

13

Does your school offer the following?

Check **one** circle for each line.

	Yes	No
BCBLG13A a) <Remedial> programs in mathematics for <ninth grade> students (e.g., <tutoring, extra classes>)	☐	☐
BCBLG13B b) <Enrichment> programs in mathematics for <ninth grade> students (e.g., <extra classes, clubs>)	☐	☐
BCBLG13C c) <Remedial> programs in science for <ninth grade> students (e.g., <tutoring, extra classes>)	☐	☐
BCBLG13D d) <Enrichment> programs in science for <ninth grade> students (e.g., <extra classes, clubs>)	☐	☐
BCBLG13E e) Additional teachers or support staff in <ninth grade> mathematics classes when needed	☐	☐
BCBLG13F f) Additional teachers or support staff in <ninth grade> science classes when needed	☐	☐

14

How much do you agree or disagree with these statements about your school?

Check **one** circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
BCBLG14A a) Teachers communicate with each other across grade levels about students and teaching practices	☐	☐	☐	☐
BCBLG14B b) Teachers and staff in this school are open to changes in their practices	☐	☐	☐	☐
BCBLG14C c) The school provides support for teachers who wish to develop new ideas	☐	☐	☐	☐
BCBLG14D d) Teachers and staff in this school regularly engage in creative problem solving	☐	☐	☐	☐

15

How much do you agree with these statements about your school?

Check **one** circle for each line.

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
BCBLG15A a) This school has a shared vision about its role in supporting environmental sustainability	☐	☐	☐	☐
BCBLG15B b) This school regularly reviews its practices to make them more environmentally sustainable	☐	☐	☐	☐
BCBLG15C c) There is a schoolwide approach to teaching environmental sustainability to students	☐	☐	☐	☐
BCBLG15D d) This school teaches students to appreciate the natural environment	☐	☐	☐	☐
BCBLG15E e) This school teaches students how to take action to protect the natural environment	☐	☐	☐	☐
BCBLG15F f) This school encourages teachers to learn about teaching environmental sustainability	☐	☐	☐	☐
BCBLG15G g) This school promotes environmental sustainability within the community	☐	☐	☐	☐
BCBLG15H h) This school promotes participation in networks or projects related to environmental sustainability	☐	☐	☐	☐

16

By the end of this school year, how many years will you have been a principal altogether?

BCBLG16

_____ years
Please **round** to the nearest whole number.

17

By the end of this school year, how many years will you have been a principal at this school?

BCBLG17

_____ years
Please **round** to the nearest whole number.

18

What is the highest level of formal education you have completed?

BCBLG18

Check **one** circle only.

Did not complete <Bachelor's or equivalent level—ISCED Level 6> --- ☐

<Bachelor's or equivalent level—ISCED Level 6> --- ☐

<Master's or equivalent level—ISCED Level 7> --- ☐

<Doctor or equivalent level—ISCED Level 8> --- ☐

19

Do you hold the following qualifications or credentials in educational leadership?

Check **one** circle for each line.

Yes _____
No _____

a) <Certificate or license> ----- ☐ — ☐

BCBLG19A

b) <Master's or equivalent level—ISCED Level 7> ----- ☐ — ☐

BCBLG19B

c) <Doctor or equivalent level—ISCED Level 8> ----- ☐ — ☐

BCBLG19C

Thank You

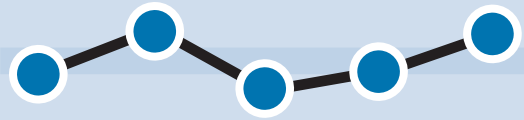
Thank you for the thought, time, and effort you have put into completing this questionnaire.



BOSTON
COLLEGE

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<Grade 9>



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