# Identification Label 

TRENDS IN INTERNATIONAL MATHEMATICS AND SCIENCE STUDY

## School Questionnaire

<TIMSS National Research Center Name>
<Address>


TIMSS \& PIRLS
International Study Center
Lynch School of Education, Boston College
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## School Questionnaire

Your school has agreed to participate in TIMSS Advanced 2015 (Trends in International Mathematics and Science Study), an educational research project sponsored by the International Association for the Evaluation of Educational Achievement (IEA). TIMSS Advanced measures trends in student achievement in advanced mathematics and physics and studies differences in national education systems in order to help improve teaching and learning worldwide.

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

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

Since TIMSS Advanced 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.

What is the total enrollment of students in your school as of <first day of month TIMSS Advanced testing begins, 2015>?
$\qquad$ students
Write in the number.

2
What is the total enrollment of <twelfth grade> students in your school as of <first day of month TIMSS Advanced testing begins, 2015>?
$\qquad$
Write in the number.

3
Approximately what percentage of students in your school have the following backgrounds?
a) Come from economically
disadvantaged homes
Check one circle for each line.

b) Come from economically
affluent homes $\qquad$


4
Approximately what percentage of students in your school have <language of test> as their native language?

5
A. How many people live in the city, town, or area where your school is located?

B. Which best describes the immediate area in which your school is located?

Check one circle only.
Urban-Densely populated --- $\bigcirc$
Suburban-On fringe or outskirts of urban area --- $\bigcirc$

Medium size city or large town --- $\bigcirc$
Small town or village---
Remote rural --- $\bigcirc$

## 6

What percentage of <twelfth grade> students in your school are taking each of the following?

Write in the percent.
a) <Advanced Mathematics> --- $\qquad$ \%
b) <Physics> -------------------- $\qquad$ \%

## 7

For the <twelfth grade> students in your school:
A. How many days per year is your school open for instruction?
___ days
Write in the number.
B. What is the total instructional time, excluding breaks, in a typical day?
$\qquad$ 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?

A. Does your school have a school library?

Check one circle only.

(If No, go to \#9)

## If Yes,

B. Approximately how many books (print and digital) with different titles does your school library have (exclude magazines and periodicals)?

C. Approximately how many titles of magazines and other periodicals (print and digital) does your school library have?

Check one circle in each column.


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.

Check one circle for each line.
Not at all
A. General School Resources
a) Instructional materials (e.g.,
textbooks) ---------------- A lome
b) Supplies (e.g., papers, pencils, materials) $\qquad$

c) School buildings and grounds


d) Heating/cooling and lighting systems $\square$






e) Instructional space (e.g., classrooms)

f) Technologically competent staff


g) Audio-visual resources for delivery of instruction (e.g., interactive white boards, digital projectors)

h) Computer technology for teaching and learning (e.g., computers or tablets for student use)


i) Resources for students with disabilities



Check one circle for each line.

|  |  |
| :---: | :---: |
|  | A little |
|  | Some |
|  | A lot |
| B. Resources for Advanced Mathematics Instruction |  |
| a) Teachers with a specialization in advanced mathematics | $-\bigcirc-\bigcirc$ |
| b) Computer software/ applications for advanced mathematics instruction | $-\bigcirc-\bigcirc$ |
| c) Library resources relevant to advanced mathematics instruction | $-\bigcirc-\bigcirc$ |
| d) Calculators for advanced mathematics instruction $\qquad$ | $-\bigcirc-\bigcirc$ |
| C. Resources for Physics Instruction |  |
| a) Teachers with a specialization in physics | $-\bigcirc-\bigcirc$ |
| b) Computer software/ applications for physics instruction $\qquad$ | $D-\bigcirc-\bigcirc$ |
| c) Library resources relevant to physics instruction $\qquad$ | $\mathrm{O}-\bigcirc=\bigcirc$ |
| d) Calculators for physics instruction | $-\bigcirc-\bigcirc$ |
| e) Physics equipment and materials for experiments | $\bigcirc-\bigcirc-\bigcirc$ |

## 10

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

Check one circle for each line.
Agree a lot
a) The school encourages students to study advanced mathematics and physics

b) The school promotes professional development for teachers of advanced mathematics and physics

c) The school provides students
with information about career options in advanced mathematics and physics

d) The school has initiatives to promote student interest in advanced mathematics and physics (e.g., student clubs, competitions) $\qquad$ $\bigcirc-\bigcirc-\bigcirc-\bigcirc$
e) The school has partnership initiatives with industry/ businesses in advanced mathematics and physics

f) Advanced mathematics and physics teachers are admired by other teachers in the school ---

g) Students at this school respect students who excel in advanced mathematics and physics


To what degree is each of the following a problem among <twelfth grade> students in your school?

Check one circle for each line.

b) Absenteeism (i.e., unjustified absences) ---------- $\bigcirc \bigcirc \bigcirc-\bigcirc-\bigcirc$
c) Classroom disturbance -------- $\bigcirc-\bigcirc-\bigcirc-\bigcirc$
d) Cheating ------------------------ $\bigcirc-\bigcirc-\bigcirc$
e) Profanity ------------------------>-○-○
f) Vandalism ----------------------- $\bigcirc-\bigcirc-\bigcirc$
g) Theft


h) Intimidation or verbal abuse among students (including texting, emailing, etc.)

i) Physical injury to other students


j) Intimidation or verbal abuse of teachers or staff (including texting, emailing, etc.)

k) Physical injury to teachers or staff



## 12

How difficult was it to fill <twelfth grade> teaching vacancies for this school year for the following subjects?


## 13

Does your school currently use any incentives (e.g., pay, housing, signing bonus, smaller classes) to recruit or retain <twelfth grade> teachers in the following fields?

Check one circle for each line.


## 14

To what degree is each of the following a problem among teachers in your school?

Check one circle for each line.

|  | Not a problem |
| :---: | :---: |
|  | Minor problem |
|  | Moderate problem |
|  | Serious problem |
| a) Arriving late or leaving early -- $-\bigcirc-\bigcirc-\bigcirc$ |  |
| b) Absenteeism ------------------- | - $\bigcirc-\bigcirc-\bigcirc$ |

15
By the end of this school year, how many years will you have been a principal altogether?

years
Please round to the nearest whole number.

16
By the end of this school year, how many years will you have been a principal at this school?
$\qquad$ years
Please round to the nearest whole number.

17
What is the highest level of formal education you have completed?

Check one circle only.

$$
\begin{gathered}
\text { Did not complete <Bachelor's or } \\
\text { equivalent level—ISCED Level 6>--- } \bigcirc \\
\text { <Bachelor's or equivalent } \\
\text { level—ISCED Level 6>--- } \bigcirc \\
\text { <Master's or equivalent } \\
\text { level—|SCED Level } 7>--\bigcirc \\
\text { <Doctor or equivalent } \\
\text { level—ISCED Level } 8>--\bigcirc
\end{gathered}
$$

## 18

Do you hold the following degrees in educational leadership?

Check one circle for each line.



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

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