

Identification Label

School ID:

School Name:

TRENDS IN INTERNATIONAL MATHEMATICS AND SCIENCE STUDY

TIMSS Advanced

2008

School Questionnaire

<TIMSS Advanced National Research Center Name>

<Address>



International Association for the Evaluation
of Educational Achievement
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General Directions

Your school has agreed to participate in TIMSS Advanced 2008. Sponsored by the International Association for the Evaluation of Educational Achievement (IEA), TIMSS (for Trends in International Mathematics and Science Study) is measuring trends in student achievement and studying differences in national education systems in order to help improve teaching and learning world-wide.

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.

Please identify a time and place where you will be able to complete this questionnaire without being interrupted. This should require no more than 30 minutes. To make it as easy as possible for you to respond, most questions may be answered simply by filling in the appropriate circle.

Once you have completed the questionnaire, place it in the return envelope provided and return it to: <Country Specific Information>

Thank you very much for the time and effort you have put into responding to this questionnaire.

School Characteristics

1 _____

A. What is the total school enrollment (number of students) in all grades?

Number of students: _____

B. What is the enrollment in the <twelfth-grade>?

Number of students: _____

2 _____

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

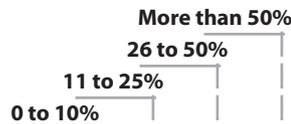
Fill in **one** circle only

- More than 500,000 people -----
- 100,001 to 500,000 people -----
- 50,001 to 100,000 people -----
- 15,001 to 50,000 people -----
- 3,001 to 15,000 people -----
- 3,000 people or fewer -----

3 _____

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

Fill in **one** circle for each row



- a) Come from economically disadvantaged homes ----- -- -- --
- b) Come from economically affluent homes ----- -- -- --

4 _____

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

Fill in **one** circle only

- More than 90% -----
- 76 to 90% -----
- 50 to 75% -----
- Less than 50% -----

5 _____

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

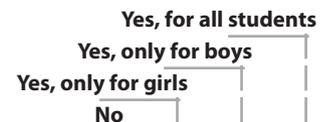
Write in the percent

- a) <Advanced Mathematics> ----- _____%
- b) <Physics> ----- _____%

6 _____

Does your school have a special policy to encourage students to choose the following courses?

Fill in **one** circle for each row



- a) <Advanced Mathematics>-- -- -- --
- b) <Physics> ----- -- -- --

Your Role as Principal

7

By the end of this school year, approximately what percentage of time in your role as principal will you have spent on these activities?

*Write in the percent
The total should add to 100%*

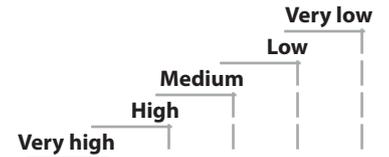
- a) Administrative duties (e.g., hiring, budgeting, scheduling, meetings) ----- %
- b) Instructional leadership (e.g., developing curriculum and pedagogy) ----- %
- c) Supervising and evaluating teachers and other staff ----- %
- d) Issues related to student discipline ----- %
- e) Teaching ----- %
- f) Public relations and fundraising ---- %
- g) Other ----- %
- Total**----- 100%

School Climate for Learning

8

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

*Fill in **one** circle for each row*



- a) Teachers' job satisfaction ----- ○ -- ○ -- ○ -- ○ -- ○
- b) Teachers' opportunities for professional development ----- ○ -- ○ -- ○ -- ○ -- ○
- c) Teachers' understanding of the school's curricular goals ----- ○ -- ○ -- ○ -- ○ -- ○
- d) Teachers' degree of success in implementing the school's curriculum ○ -- ○ -- ○ -- ○ -- ○
- e) Teachers' expectations for student achievement ----- ○ -- ○ -- ○ -- ○ -- ○
- f) Parental support for student achievement - ○ -- ○ -- ○ -- ○ -- ○
- g) Parental involvement in school activities --- ○ -- ○ -- ○ -- ○ -- ○
- h) Students' regard for school property ----- ○ -- ○ -- ○ -- ○ -- ○
- i) Students' desire to do well in school ----- ○ -- ○ -- ○ -- ○ -- ○

<Twelfth-grade> Teachers in Your School

9

In your school, are any of the following used to evaluate the practice of <twelfth-grade> mathematics teachers?

Fill in **one** circle for each row

- | | | | | | |
|---|--|-------|----|-------|-----|
| | <table border="0"> <tr> <td style="text-align: center;">_____</td> <td style="text-align: center;">No</td> </tr> <tr> <td style="text-align: center;">_____</td> <td style="text-align: center;">Yes</td> </tr> </table> | _____ | No | _____ | Yes |
| _____ | No | | | | |
| _____ | Yes | | | | |
| a) Observations by the principal or senior staff ----- | ○ --- ○ | | | | |
| b) Observations by inspectors or other persons external to the school ----- | ○ --- ○ | | | | |
| c) Student achievement ----- | ○ --- ○ | | | | |
| d) Teacher peer review ----- | ○ --- ○ | | | | |

11

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

Fill in **one** circle for each row

- | | | | | | | | | | |
|--|--|-------|----------------|-------|--------------------|-------|------------------------|-------|-----------------------------------|
| | <table border="0"> <tr> <td style="text-align: center;">_____</td> <td style="text-align: center;">Very difficult</td> </tr> <tr> <td style="text-align: center;">_____</td> <td style="text-align: center;">Somewhat difficult</td> </tr> <tr> <td style="text-align: center;">_____</td> <td style="text-align: center;">Easy to fill vacancies</td> </tr> <tr> <td style="text-align: center;">_____</td> <td style="text-align: center;">Were no vacancies in this subject</td> </tr> </table> | _____ | Very difficult | _____ | Somewhat difficult | _____ | Easy to fill vacancies | _____ | Were no vacancies in this subject |
| _____ | Very difficult | | | | | | | | |
| _____ | Somewhat difficult | | | | | | | | |
| _____ | Easy to fill vacancies | | | | | | | | |
| _____ | Were no vacancies in this subject | | | | | | | | |
| a) Mathematics ----- | ○ --- ○ --- ○ --- ○ | | | | | | | | |
| b) Physics ----- | ○ --- ○ --- ○ --- ○ | | | | | | | | |
| c) Computer science / information technology ----- | ○ --- ○ --- ○ --- ○ | | | | | | | | |

10

In your school, are any of the following used to evaluate the practice of <twelfth-grade> physics teachers?

Fill in **one** circle for each row

- | | | | | | |
|---|--|-------|----|-------|-----|
| | <table border="0"> <tr> <td style="text-align: center;">_____</td> <td style="text-align: center;">No</td> </tr> <tr> <td style="text-align: center;">_____</td> <td style="text-align: center;">Yes</td> </tr> </table> | _____ | No | _____ | Yes |
| _____ | No | | | | |
| _____ | Yes | | | | |
| a) Observations by the principal or senior staff ----- | ○ --- ○ | | | | |
| b) Observations by inspectors or other persons external to the school ----- | ○ --- ○ | | | | |
| c) Student achievement ----- | ○ --- ○ | | | | |
| d) Teacher peer review ----- | ○ --- ○ | | | | |

12

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?

Fill in **one** circle for each row

- | | | | | | |
|----------------------|--|-------|----|-------|-----|
| | <table border="0"> <tr> <td style="text-align: center;">_____</td> <td style="text-align: center;">No</td> </tr> <tr> <td style="text-align: center;">_____</td> <td style="text-align: center;">Yes</td> </tr> </table> | _____ | No | _____ | Yes |
| _____ | No | | | | |
| _____ | Yes | | | | |
| a) Mathematics ----- | ○ --- ○ | | | | |
| b) Physics ----- | ○ --- ○ | | | | |
| c) Other ----- | ○ --- ○ | | | | |

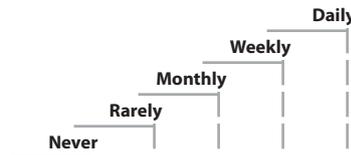
13

How often does each of the following problem behaviors occur among <twelfth-grade> students in your school?

If the behavior occurs, how severe a problem does it present?

A. Frequency in your school

Fill in **one** circle for each row in this section



- a) Arriving late at school ----- ○ -- ○ -- ○ -- ○ -- ○
- b) Absenteeism (i.e., unjustified absences) ----- ○ -- ○ -- ○ -- ○ -- ○
- c) Skipping class <hours/periods> ----- ○ -- ○ -- ○ -- ○ -- ○
- d) Classroom disturbance ----- ○ -- ○ -- ○ -- ○ -- ○
- e) Cheating ----- ○ -- ○ -- ○ -- ○ -- ○
- f) Vandalism ----- ○ -- ○ -- ○ -- ○ -- ○
- g) Theft ----- ○ -- ○ -- ○ -- ○ -- ○
- h) Intimidation or verbal abuse of other students ----- ○ -- ○ -- ○ -- ○ -- ○
- i) Physical injury to other students ----- ○ -- ○ -- ○ -- ○ -- ○
- j) Intimidation or verbal abuse of teachers or staff ----- ○ -- ○ -- ○ -- ○ -- ○
- k) Physical injury to teachers or staff ----- ○ -- ○ -- ○ -- ○ -- ○

B. Severity of problem in your school

Fill in **one** circle for each row in this section



- ○ -- ○ -- ○
- ○ -- ○ -- ○
- ○ -- ○ -- ○
- ○ -- ○ -- ○
- ○ -- ○ -- ○
- ○ -- ○ -- ○
- ○ -- ○ -- ○
- ○ -- ○ -- ○
- ○ -- ○ -- ○
- ○ -- ○ -- ○
- ○ -- ○ -- ○
- ○ -- ○ -- ○

14

Is your school's capacity to provide instruction affected by a shortage or inadequacy of any of the following?

Fill in **one** circle for each row



- a) Instructional materials (e.g., textbook) ----- ○ -- ○ -- ○ -- ○
- b) Budget for supplies (e.g., paper, pencils) ----- ○ -- ○ -- ○ -- ○
- c) School buildings and grounds ----- ○ -- ○ -- ○ -- ○
- d) Heating/cooling and lighting systems ----- ○ -- ○ -- ○ -- ○
- e) Instructional space (e.g., classrooms) ----- ○ -- ○ -- ○ -- ○
- f) Special equipment for students with disabilities --- ○ -- ○ -- ○ -- ○
- g) Computers for mathematics instruction ----- ○ -- ○ -- ○ -- ○
- h) Computer software for mathematics instruction --- ○ -- ○ -- ○ -- ○
- i) Calculators for mathematics instruction ----- ○ -- ○ -- ○ -- ○
- j) Library materials relevant to mathematics instruction - ○ -- ○ -- ○ -- ○
- k) Audio-visual resources for mathematics instruction --- ○ -- ○ -- ○ -- ○

Fill in **one** circle for each row



- l) Physics laboratory equipment and materials--- ○ -- ○ -- ○ -- ○
- m) Computers for physics instruction ----- ○ -- ○ -- ○ -- ○
- n) Computer software for physics instruction ----- ○ -- ○ -- ○ -- ○
- o) Calculators for physics instruction ----- ○ -- ○ -- ○ -- ○
- p) Library materials relevant to physics instruction ----- ○ -- ○ -- ○ -- ○
- q) Audio-visual resources for physics instruction ----- ○ -- ○ -- ○ -- ○
- r) Teachers ----- ○ -- ○ -- ○ -- ○
- s) Computer support staff ----- ○ -- ○ -- ○ -- ○

Resources and Technology (Continued)

15

A. Does your school have a physics laboratory?

Yes No

Fill in **one** circle only-----○

B. Do teachers usually have assistance available when students are conducting physics experiments?

Yes No

Fill in **one** circle only-----○

16

Is anyone available to help your teachers use information and communication technology for teaching and learning?

Yes No

Fill in **one** circle only-----○

17

A. What is the total number of computers in your school that can be used for educational purposes by <twelfth-grade> students?

Number of computers:_____

B. How many of these computers have access to the Internet (email or World Wide Web) for educational purposes?

Fill in **one** circle only

All -----○
Most-----○
Some-----○
None-----○

Thank You

**for completing
this questionnaire**



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

School Questionnaire