## APPENDIX C

## Form 1 TIMSS Participation

## See Section 5.5 of Sampling Manual.

TIMSS Participant:
National Project Coordinator:

1 Specify the populations that will be investigated in your country. For each population, specify the usual start date of the school year, and the expected date of testing for the main survey.

Usual start date Expected date of testing Usual end date of the school year: for the main survey: of the school year:
Population 1 $\qquad$
$\qquad$
$\qquad$
Population 2 $\qquad$
$\qquad$
$\qquad$
$\bigcirc$ Population 3 $\qquad$
$\qquad$
$\qquad$
2. Describe the age and birthdate rules for entering primary school in your country.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
3. Describe the grade structure of early primary school in your country (for example, nursery, kindergarten, grades 1 through 6, etc.).
$\qquad$
$\qquad$
$\qquad$
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$\qquad$
$\qquad$
$\qquad$

Population 1
Describing National Desired Target Population

## Form 2/part 1

See Section 6.1 of Sampling Manual.
TIMSS Participant:
National Project Coordinator:
The international desired target population includes all students enroled on a full-time basis in the two adjacent grades that contain the largest proportion of students in the age 9 cohort at the time of testing.

1a. Do you plan to sample two classrooms per grade? $\bigcirc$ yes or $\bigcirc$ no
1b. Do you plan to subsample within classrooms? $\bigcirc$ yes or $\bigcirc$ no
2a. Specify the adjacent grades selected for the international desired target population:
$\bigcirc$ grades 3 and 4
$\bigcirc$ grades 2 and 3
$\bigcirc$ other (specify and explain):
$2 b$. Specify the percent coverage of the age cohort in the grade pair: $\square$

2c. Total national enrolment in the grades specified in 2a:
[a]
3a. Describe the coverage of the national desired target population emphasizing any differences from the international desired target population:

Total enrolment in the desired target population:
[b]
3b. Describe the population(s) to be excluded from the national desired target population (if applicable):

Total enrolment excluded from national desired target population (box [a] - box [b]):


Percentage (box $[c] \div$ box $[a]$ ):

4. Describe the data source: $\qquad$
$\qquad$

## Form 2/part 1 Describing National Desired Target Population

See Section 6.1 of Sampling Manual.
TIMSS Participant:
National Project Coordinator:
The international desired target population includes all students enroled on a full-time basis in the two adjacent grades that contain the largest proportion of students in the age 13 cohort at the time of testing.

1a. Do you plan to sample two classrooms per grade?
$\bigcirc$ yes or


1b. Do you plan to subsample within classrooms?yes or Ono

2a. Specify the adjacent grades selected for the international desired target population: $\bigcirc$ grades 7 and $8 \bigcirc$ grades 6 and $7 \bigcirc$ other (specify and explain):

2b. Specify the percent coverage of the age cohort in the grade pair: $\square$ \%

2c. Total national enrolment in the grades specified in 2 a : $\square$
3a. Describe the coverage of the national desired target population emphasizing any differences from the international desired target population:

Total enrolment in the desired target population:
[b]
3b. Describe the population(s) to be excluded from the national desired target population (if applicable):
$\qquad$

Total enrolment excluded from national desired target population (box [a] - box [b]):
[c]
Percentage (box $[c] \div$ box $[a]$ ): $\square$
[d] $\%$
4. Describe the data source:

## Form 2/part 1 <br> Population 3 <br> Describing National Desired Target Population

See Section 6.1 of Sampling Manual.

TIMSS Participant: $\qquad$

National Project Coordinator: $\qquad$

The international desired target population includes all students who are enroled on a full-time basis in one of the final segments of public or private secondary education.

$$
\begin{aligned}
& \mathrm{OO}=\text { Math generalists and physics generalists } \\
& \mathrm{MO}=\text { Math specialists and physics generalists } \\
& \mathrm{OP}=\text { Math generalists and physics specialists } \\
& \mathrm{MP}=\text { Math specialists and physics specialists }
\end{aligned}
$$

1. Identify and describe the Population 3 subsystems in your country:
$\qquad$
$\qquad$
$\qquad$
$\qquad$
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$\qquad$
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$\qquad$
2. Retention rates are important in describing differences between school systems. Please tell us the percentage of each age cohort enroled in school in your country. (This is an update of information provided in the Participation Survey).
$\qquad$
3. Define the mathematics and/or physics specialists under investigation:

Math (M)
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Physics (P)
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
4. Describe the distribution of student groups by sub-system, and type of school (1 form per sub-system).

| Population Sub-System: |  |  |
| :--- | :--- | :--- |
| Student <br> Groups | \% of Enrolment <br> in Sub-system | Type of <br> School(s) |
| OO |  |  |
| MO |  |  |
| OP |  |  |
| MP |  |  |


| Population Sub-System: |  |  |
| :--- | :--- | :--- |
| Student <br> Groups | \% of Enrolment <br> in Sub-system | Type of <br> School(s) |
| OO |  |  |
| MO |  |  |
| OP |  |  |
| MP |  |  |

## Form 2/part 2 <br> National Defined Target Population

To be completed for EACH population listed in Form 1. See Section 6.2 of Sampling Manual.
TIMSS Participant:

## National Project Coordinator:

Assessment population (from Form 1):

1. Number of students in national desired target population (from box [b] on Form 2/part 1): [a]
2. School exclusions:

| Reason for exclusion: | No. of students: |
| :--- | :--- |
|  |  |
|  |  |
|  |  |
| TOTAL | $[\mathrm{b}]$ |
| Percentage of exclusions (box $[b] \div$ box $[a]$ ): | $[\mathrm{c}]$ | \%

3. Number of students in national defined target population (box [a] - box [b]):
[d]
4. Within-school exclusions:

| Reason for Exclusion: | Expected <br> No. of students: |
| :--- | :--- |
|  |  |
|  |  |
|  |  |
| TOTAL | [e] |

5. Describe the data source:

## Form 3

## Stratification Variables

To be completed for EACH population listed on Form 1. See Section 7 of Sampling Manual.
TIMSS Participant:
National Project Coordinator:
Assessment population (from Form 1):

## Part 1

List and describe the variables used for design domains:

| No. | Description: | Number of levels: |
| :--- | :--- | :--- |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

## Part 2

Provide details about enrolment in single grade and multi-grade schools (for Populations 1 and 2 only):

|  | Enrolment <br> in lower grade: | Enrolment <br> in upper grade: | Total <br> Enrolment: |
| :--- | :--- | :--- | :--- |
| Schools with both grades: |  |  |  |
| Schools with only upper grade: |  |  |  |
| Schools with only lower grade: |  |  |  |
| TOTAL |  |  |  |

## Part 3

List and describe the variables used for implicit strata:

| No. | Description: | Number of levels: |
| :--- | :--- | :--- |
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## Form 4/part 1 <br> Stratification Variables (cont.)

To be completed for EACH population listed on Form 1. See Section 8 of Sampling Manual.
TIMSS Participant:
National Project Coordinator:
Assessment population (from Form 1):

1. Stratum Number and name: $\square$
2. Enter the minimum cluster size (mcs) to be used: $\quad \square$
3. Specify the source of information used to determine the coefficient of intraclass correlation (rho):

Enter rho: $\square$
4. Specify the precision requirements (i.e. $95 \%$ confidence limits of $\pm 0.2$ s for estimated means):

1. Stratum Number and name: $\square$
2. Enter the minimum cluster size (mcs) to be used: $\square$
3. Specify the source of information used to determine the coefficient of intraclass correlation (rho):
$\qquad$

Enter rho: $\square$
4. Specify the precision requirements (i.e. $95 \%$ confidence limits of $\pm 0.2$ s for estimated means):

## Form 4/part 2

Type of Sample Frame

To be completed for EACH population listed on Form 1. See Section 9.4 of Sampling Manual. TIMSS Participant:
National Project Coordinator:
Assessment population (from Form 1):

1. Describe the type of sampling frame to be used:Single level (check one): Type A $\bigcirc$
Type B $\bigcirc$
Type C $\bigcirc$Double level (check one):
Type $\mathrm{D} \bigcirc$
Type E $\bigcirc$
Other (specify): $\qquad$
2. Describe the measure of size to be used (i.e. total enrolment in target grades for 19901991 school year):
$\qquad$
$\qquad$
$\qquad$
3. If double-level frame is to be used provide preliminary description of information available to construct this frame. The ICC will provide support, if necessary, to assist the NPC in the construction and use of a double-level frame.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## Form 5/part 1 Schools Excluded from the Sampling Frame

To be completed for EACH population listed on Form 1. See Section 9.5 of Sampling Manual.

## TIMSS Participant:

National Project Coordinator:
Assessment population (from Form 1):

| Identification number of excluded school | REASON FOR EXCLUSION | Measure of size of excluded school |
| :---: | :---: | :---: |
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| TOTAL |  |  |

## Form 5/part 2 Recording the Formation of Pseudo-schools

To be completed for EACH population listed on Form 1. See Section 9.5 of Sampling Manual.
TIMSS Participant:
National Project Coordinator:
Assessment population (from Form 1):

| Identification Number of Superschool* | Identification Numbers of Collapsed-schools Forming the Pseudo-school |  |  |  |  | Measure of Size of Pseudoschool |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | School \#1 | School \#2 | School \#3 | School \#4 | School \#5 |  |
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| TOTAL |  |  |  |  |  |  |

* Retain the identification number of the largest school making up the pseudo-school.


## Form 6/part 1 Strata for Defined Target Population

To be completed for EACH population listed on Form 1. See Section 9.8 of Sampling Manual.
TIMSS Participant:

## National Project Coordinator:

Assessment population (from Form 1):

| (1) | (2) | (3) | Population of Students |  |
| :---: | :---: | :---: | :---: | :---: |
| Design Domain (D.D.) | Stratum <br> (Name) | Population of Schools (Number) | (4) <br> Number | (5) <br> Percentage of: Pop. D.D |
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## Form 6/part 2 Strata for Defined Target Population

To be completed for EACH population listed on Form 1. See Section 9.8 of Sampling Manual.
TIMSS Participant:
National Project Coordinator:
Assessment population (from Form 1):

| (1) | Stratum |  | Sample of Schools <br> (4) | Expected Sample of Students |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | (2) | (3) |  | (5) | (6) |
| Design <br> Domain | Name: | mcs | Number: | Lower Grade | Upper Grade |
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## Form 7

Selecting the Sample of Schools

TIMSS Participant:
Assessment population (from Form 1 — including Design Domain and Explicit Stratum) :

| (1) <br> School List Number | (2) Pseudoschool $(\checkmark)$ | (3) <br> Measure of Size (from sorted sampling frame) | Cumulative <br> Measure of Size | Sampled ( $\sqrt{ }$ ) |
| :---: | :---: | :---: | :---: | :---: |
| Total from previous page. $\square$ |  |  |  |  |
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## Form 8 <br> Identifying the Sample of Schools

To be completed for EACH population listed on Form 1. See Section 10.3 of Sampling Manual.

TIMSS Participant:
Assessment population (from Form 1 - including Design Domain and Explicit Stratum):

| $\mathbf{S}$ | $\mathbf{D}_{\text {[a] Total Measure of Size }}$ | [b] Desired Sample | I |
| :--- | :--- | :--- | :--- |
| [c] Sampling Interval |  |  |  |$\quad$| RN |
| :--- |
| [d] Random Number |


| (1) <br> Line Number | (2) <br> Selection Numbers |
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| [a] Total Measure of Size |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | (1) | (2) | $(3)$ <br> Name and Phone Number <br> of School Coordinator | (4) <br> Measure of <br> Size | $\begin{gathered} \hline(5) \\ \text { Status* } \end{gathered}$ | $(6)$Date Materials Sent Materials Returned | (7) <br> Date of <br> Assessment |
|  |  |  |  |  |  |  |  |
|  | School ID | Name, Address and Phone Number of School |  |  |  |  |  |
| $\dagger 1$. |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| $\dagger 2$. |  |  |  |  |  |  |  |
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| $\dagger 3$. |  |  |  |  |  |  |  |
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|  |  |  |  |  |  | $\square$ |  |
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$\dagger$ Number 1 is the school from the designed sample. Number 2 is the first replacement school. Number 3 is the second replacement school.
*Enter "N" for non-participating. A check-mark $(\sqrt{ })$ indicates participation.

Form $9 \quad \begin{gathered}\text { Populations } 1 \text { and } 2 \\ \text { School Tracking Form }\end{gathered}$
School Tracking Form
Use one form for each school from the designed sample along with its replacement schools. See Section 10 of Sampling Manual.
Population:
[a] Total Measure of Size
(1)


Use additional sheets if necessary

Populations 1 and 2

## Class Tracking Form

Population: 1 2
TIMSS Participant: $\qquad$

To be completed for participating schools listed on the Form 9. See Section 11 of Sampling Manual.
[a] School Name \& Address:

## [b] School Coordinator \& Contact:

| [c] School ID | [d] Minimum Cluster Size | [e] Target Grade | [f] Random Start | [g] Sampling Interval | [h1] First Selected Classroom | [h2] Second Selected Classroom |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |

$\left.\left.\begin{array}{|c|c|c|c|c|c|c|c|c|}\hline(1) \\ \begin{array}{c}\text { Line } \\ \text { Number }\end{array} & \text { Class ID }\end{array} \begin{array}{c}\text { (3) } \\ \text { Stream } \\ \text { or } \\ \text { Track }\end{array}\right) ~ \begin{array}{c}\text { (4) } \\ \text { Location } \\ \text { (Room) }\end{array}\right)$

