2019
Identification Label

## Educator Questionnaire Mathematics

## Grade 5

Human Sciences Research Council
134 Pretorius Street, Pretoria, 0002
South Africa

## Educator Questionnaire

Your school has agreed to participate in TIMSS 2019 (Trends in International Mathematics and Science Study), an educational research project sponsored by the International Association for the Evaluation of Educational Achievement (IEA). TIMSS measures trends in learner achievement in mathematics and science and studies differences in national education systems in almost 60 countries in order to help improve teaching and learning worldwide.

This questionnaire is addressed to educators of Grade 5 learners, and seeks information about educators' academic and professional backgrounds, classroom resources, instructional practices, and attitudes toward teaching. Since your class has been selected as part of a nationwide sample, your responses are very important in helping to describe primary school education in South Africa.

Some of the questions in the questionnaire refer to the "TIMSS class" or "this class." This is the class that is identified on the front of this booklet, and which will be tested as part of TIMSS in your school. If you teach some but not all of the learners in the TIMSS class, please think only of the learners that you teach when answering these class-specific questions. It is important that you answer each question carefully so that the information that you provide reflects your situation as accurately as possible.

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 South Africa. Nevertheless, it is important that you do your best to answer all of the questions so comparisons can be made across countries in the studies.

It is estimated that you will need approximately 35 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 return it to the test administrator.

Thank you.

G1
A. By the end of this school year, how many years will you have been teaching altogether?
$\qquad$ years
Please round to the nearest whole number.
B. By the end of this school year, how many years will you have been teaching science?
$\qquad$ years
Please round to the nearest whole number.
C. By the end of this school year, how many years will you have been teaching mathematics?

Please round to the near es
Please round to the nearest whole number.

G2
Are you female or male?
Tick one circle only.
Female --- $\bigcirc$
Male --- $\bigcirc$

G3
How old are you?
Tick one circle only.
Under $25--\bigcirc$
$25-29--\bigcirc$
$30-39--$
$40-49--$
$50-59--$
60 or older ---

G4
What is the highest level of formal education you have completed?

Tick one circle only.
Did not complete Grade 12 ---
Finished Grade 12 --- $\bigcirc$
(If you have not completed tertiary education, go to \#G6)

Finished post-matric certificate --- $\bigcirc$
Finished diploma ---
Finished first degree ---
Finished Honour's degree ---
Finished Master's degree ---
Finished Doctoral degree ---

G5
A. During your tertiary education, what was your major or main areas) of study?

Tick all that apply.
a) Education -Primary $\qquad$ $\bigcirc$
b) Education -Secondary $\qquad$ $\bigcirc$
c) Mathematics $\qquad$ $\bigcirc$
d) Science $\qquad$ $\bigcirc$
e) English $\qquad$ $\bigcirc$
f) Other
 $\bigcirc$
B. If your major or main area of study was education, did you specialise in any of the following?

Tick all that apply.
a) Mathematics$\bigcirc$
b) Science
c) Language/reading
d) Other subject $\qquad$ $\bigcirc$

## How would you characterise each of the following within your school?

Tick one circle for each line.
aery high
a) Educators' understanding of
the school's curricular goals ----
b) Educators' degree of
success in implementing
the school's curriculum $-\cdots-----$
c) Educators' expectations

d) Educators' ability to

e) Parental involvement in school activities $\qquad$

f) Parental commitment to ensure that learners are ready to learn $\qquad$

g) Parental expectations for learner achievement

h) Parental support for learner achievement

i) Learners' desire to do well in school $\qquad$

j) Learners' ability to reach school's academic goals $\qquad$

k) Learners' respect for classmates who excel academically $\qquad$



I) Collaboration between school management and educators to plan instruction


m) Educators' job satisfaction ------ $\bigcirc-\bigcirc-\bigcirc-\bigcirc-\bigcirc$
n) School management's observation of teaching practices through classroom visits


0) School management's commitment to protecting teaching and learning time-


p) Level of use of Curriculum and Policy Statements (CAPS) documents $\qquad$
 - --

 -

## School Leadership

## (continued)

## B. Thinking about your current school, indicate the extent to which you agree or disagree with each of the following statements.


g) The principal maintains definite standards of performance



How often do you feel the following way about being an educator?

Tick one circle for each line.

b) I find my work full of meaning and purpose

c) I am enthusiastic about my job $\qquad$

d) My work inspires me $\qquad$

e) I am proud of the work I do

f) I feel tired all the time $\qquad$

g) I feel overwhelmed by the amount of work $\qquad$

h) I feel sick and rundown $\qquad$

i) I don't feel like getting things done at work $\square$

j) I feel like the learners and school would be better off without me $\qquad$

k) I have lost interest in my usually enjoyable school activities $\qquad$ $\bigcirc-\bigcirc-\bigcirc-\bigcirc$

## G9

Indicate the extent to which you agree or disagree with each of the following statements.

## Tick one circle for each line.

## Agree a lot





 0
a) There are too many learners in the classes
b) I have too much material to cover in class $\qquad$

c) I have too many teaching hours $\qquad$






d) I need more time to prepare for class $\qquad$

e) I need more time to assist individual learners $\qquad$






f) I feel too much pressure from parents $\qquad$





g) I have difficulty keeping up with all of the changes to the curriculum






h) I have too many administrative tasks

$\square$






## G10

A. How many learners are in this class?
$\qquad$ learners
Write in the number.
B. How many of the learners in G10A are in Grade 5?
$\qquad$ Grade 5 learners
$\overline{\text { Write in the number. If this is not a multi-grade class please repeat }}$ the answer from G10 A.

## G11

How many Grade 5 learners experience difficulties understanding spoken English?
$\qquad$ learners in this class
Write in the number.

## In your view, to what extent do the following limit how you teach this class?

Tick one circle for each line.

## How often do you do the following in teaching this class?



Tick one circle for each line.

b) Learners suffering from

c) Learners suffering from not enough sleep


d) Learners absent from class ---- $\bigcirc-\bigcirc-\bigcirc$
e) Disruptive learners $\qquad$

f) Uninterested learners $\qquad$

g) Learners with mental, emotional, or psychological impairment


h) Learners with difficulties understanding the language of instruction


G14
If the language of learning and teaching is different to the majority of the learners' home language, how do you communicate with your learners?

> Tick one circle only.

Only using the language of learning and teaching


Only using the home language of the learners


Using both the language of learning and teaching and the learners' home language


In a typical week, how much time do you spend teaching mathematics to the learners in this class?
minutes per week
Write in the number of minutes per week.
Please convert the number of hours into minutes.

In teaching mathematics to this class, how often do you ask learners to do the following?

Tick one circle for each line.
a) Listen to me explain new mathematics content



b) Listen to me explain how to solve problems $\qquad$



c) Memorise rules, procedures, and facts $\qquad$





d) Practise procedures on their own $\qquad$




e) Apply what they have learned to new problem situations on their own $\qquad$


f) Work on problems together in the whole class with direct guidance from me $\qquad$




g) Work in mixed ability groups





h) Work in same ability groups $\qquad$
 $-\bigcirc$ $-$

## Using Calculators and Computers for Teaching Mathematics to the TIMSS Class

Are the learners in this class permitted to use calculators during mathematics lessons?

Tick one circle only.
Yes, with unrestricted use --- $\bigcirc$
Yes, with restricted use --- $\bigcirc$
№, calculators are not permitted ---

M4
A. Do the learners in this class have computers (including tablets) available to use during their mathematics lessons?

Tick one circle only.


No --- $\bigcirc$
(If No, go to \#M5)

## If Yes,

B. What access do the learners have to computers?

Tick one circle for each line.

b) The class has computers that learners can
share $\qquad$

c) The school has computers that the class can use sometimes $\qquad$

C. How often do you do activities on computers during mathematics lessons to support learning for:

Tick one circle for each line.
a) Whole class $\qquad$


Every or almost every day
Once or twice a week

Once or twice a month Never or almost never
b) Low-performing learners






c) High-performing learners $\qquad$

d) Learners with special needs $\qquad$


## M5


#### Abstract

The following list includes the main topics addressed by the TIMSS mathematics test. Choose the response that best describes when the learners in this class have been taught each topic. If a topic was in the curriculum before Grade 5, please choose "Mostly taught before this year." If a topic was taught half this year but not yet completed, please choose "Mostly taught this year." If a topic is not in the curriculum, please choose "Not yet taught or just introduced."


Tick one circle for each line.

|  |  | Mostly taught before this year |
| :---: | :---: | :---: |
|  |  | Mostly taught this year |
|  |  | Not yet taught or just introduced |
| A. Number |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
| d) Number sentences (finding the missing number, representing problem situations with number sentences) ----------->-○- |  |  |
|  |  |  |
| f) Concepts of fractions, including representing, comparing and ordering, adding and subtracting simple fractions ------- $\bigcirc$ |  |  |
|  |  |  |

## B. Measurement and Geometry

a) Solving problems involving length, including measuring and estimating




d) Parallel and perpendicular lines $\qquad$



g) Three-dimensional shapes, including relationships with their two-dimensional representations

C. Data
a) Reading and interpreting data from tables, pictographs, bar graphs, line graphs, and pie charts $\qquad$

b) Organising and representing data to help answer questions $\qquad$

c) Drawing conclusions from data displays


## M6

A. How often do you usually assign mathematics homework to the learners in this class?

Tick one circle only.

B. When you assign mathematics homework to the learners in this class, about how many minutes do you usually assign? (Consider the time it would take an average learner in your class.)

C. How often do you do the following with the mathematics homework assignments for this class?
a) Correct assignments and give feedback to learners


Tick one circle for each line.
b) Discuss the homework in class $\qquad$


c) Monitor whether or not the homework was completed


M7
How much importance do you place on the following assessment strategies in mathematics?

Tick one circle for each line.

b) Asking learners to answer questions during class $\qquad$

c) Short, regular written assessments $\qquad$

d) Longer tests (e.g., unit tests or exams)


e) Long-term projects $\qquad$



M8
About how often do Grade 5 learners in this class take mathematics tests on computers or tablets?


## Professional Development to Teach Mathematics

## M9

A. In the past two years, have you participated in professional development in any of the following?

## B. Do you need future professional development in any of the following?

Tick one circle for each line.
a) Mathematics
content
A. In the past two years, how many hours in total have you spent in formal professional development (e.g., workshops, seminars, etc.) for mathematics?

B. When does educator professional development usually take place?



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

IEA
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