



AFRICAN POPULATION AND HEALTH RESEARCH CENTER

EDUCATION RESEARCH PROGRAMME

TEACHER QUESTIONNAIRE (BASELINE)

**THIS QUESTIONNAIRE SHOULD BE ADMINISTERED TO TEACHERS OF MATHEMATICS
IN CLASS SIX IN THE SCHOOL VISITED**

In the process of developing this study tool, several sources were consulted and mainly included the Human Sciences and Research council (HSRC) and the South Africa Consortium for Monitoring and Evaluating Educational Quality II – Kenya (SACMEQ II).

1.0 BACKGROUND INFORMATION

- 1.1 START TIME
- 1.2 DATE OF INTERVIEW (DD/MM/YYYY)
- 1.3 FIELD INTERVIEWER'S (FI) CODE
- 1.4 FULL NAME OF THE TEACHER _____
- 1.4a TSC/EMPLOYMENT NUMBER
- 1.5 FULL NAME OF SCHOOL _____
- 1.6 CURRENT KENYA NATIONAL EXAMINATION INDEX FOR THE SCHOOL
- 1.7 PREVIOUS KENYA NATIONAL EXAMINATION INDEX FOR THE SCHOOL
- 1.8 FI: IN WHICH PROVINCE IS THE SCHOOL LOCATED?
- 01=COAST; 02=CENTRAL; 03=EASTERN; 04=NAIROBI; 05=RIFT VALLEY; 06=WESTERN
07=NYANZA; 08=NORTH EASTERN
- 1.9 FI: GIVE THE NAME OF THE DISTRICT WHERE THE SCHOOL IS LOCATED _____

1.10 INTRODUCTION AND CONSENT

Good morning/afternoon/evening sir/madam. My name is (NAME OF FIELD INTERVIEWER). I work with the African Population and Health Research Center (APHRC) which carries out research on education, Health, Urbanization, and Well being. The APHRC works in Kenya and in the sub-Saharan Africa region. Under the Education theme, we visit primary schools to collect data on school infrastructure, enrolment, staffing and management. This time round, we would like to collect data from [NAME OF SCHOOL] and we will be interviewing teachers handling class six. From them, we seek data on their professional and academic training, subjects they teach at class six as well involve them in correcting problems faced by standard six pupils in mathematics. The results of this research will be disseminated to schools participating in the study and at national level in order to inform education policy in Kenya.

Your responses will be held with utmost confidentiality and will only be available to members of the research team. Your responses will not cause any disadvantage to you or your school. If you accept to participate in this study, you will be doing so professionally and voluntarily and there will not be any monetary returns. Any benefits of the research will be policy oriented intended to improve the teaching and learning processes in our schools. You are free to ask questions as we proceed. You may also refuse to respond to questions you do not feel comfortable answering. This interview will take about 30 minutes.

- 1.11 Would you like to participate in this research? 1=YES; 2=NO; ☐
- [IF 1=YES, THANK THE RESPONDENT AND PROCEED TO SECTION 2.0]
- 1.12 Kindly let me know the reason why you would not wish to participate in this research
- 01=TOO BUSY/DO NOT HAVE TIME; 02=TIRED OF RESEARCH; 03=RESEARCH NOT BENEFICIAL;
04=NOT INTERESTED; 96=OTHER (specify) _____
- [CHECK 1.11: IF 2=NO, THANK THE RESPONDENT, AND SKIP TO SECTION 6.0]

2.0 SOME QUESTIONS ABOUT YOU

- 2.1 FI: INDICATE SEX OF TEACHER/RESPONDENT 1=FEMALE; 2=MALE ☐
- 2.2 What is the date of your birth? (DD/MM/YYYY)
- 2.3 What is the highest level of **academic education** you have attained?
- 01=PRIMARY EDUCATION; 02=JUNIOR SECONDARY EDUCATION;
03=SECONDARY EDUCATION (O-LEVEL); 04=SECONDARY EDUCATION (A-LEVEL);
05=BACHELOR'S DEGREE OR HIGHER (OTHER THAN BACHELOR OF EDUCATION)
96=OTHER (specify) _____

2.4	What is the highest level of certification of your pre-service teacher training ? 01=NO TEACHER TRAINING (UT); 02=CERTIFICATE; 03=DIPLOMA; 04=DEGREE; 05=PGDE 96=OTHER (specify) _____	<input type="text"/> <input type="text"/> <input type="text"/>
[IF 01, SKIP TO 2.6]		
2.5	How many years of pre-service teacher training have you received altogether?	<input type="text"/> <input type="text"/> <input type="text"/>
	A CERTIFICATE	<input type="text"/> <input type="text"/> <input type="text"/>
	B DIPLOMA	<input type="text"/> <input type="text"/> <input type="text"/>
	C DEGREE	<input type="text"/> <input type="text"/> <input type="text"/>
	D PGDE	<input type="text"/> <input type="text"/> <input type="text"/>
	E OTHER (specify) _____	
2.6	How adequately do you feel prepared for teaching the mathematics curriculum? 01=VERY INADEQUATE; 02=INADEQUATE; 03=SOMEHOW ADEQUATE; 04=ADEQUATE; 05=VERY ADEQUATE	<input type="text"/> <input type="text"/> <input type="text"/>
2.7	In the last 18 months, how many in-service teacher training short courses have you attended that were specific to mathematics? [FI: WRITE e.g. 04 FOR 4, 00 FOR 0 etc.]	<input type="text"/> <input type="text"/>
[IF 00, SKIP TO 2.10]		
2.8	Mention the names of the in-service teacher training short courses you attended	
	1 _____	
	2 _____	
	3 _____	
	4 _____	
2.9	How many days altogether have you attended this in-service ?	<input type="text"/> <input type="text"/> <input type="text"/>
2.10	How many complete years (including this year 2009) have you been a school teacher?	<input type="text"/> <input type="text"/> <input type="text"/>
2.11	How many complete years (including this year 2009) have you been a school teacher at this school?	<input type="text"/> <input type="text"/> <input type="text"/>
2.12	How many complete years (including this year 2009) have you been a mathematics teacher?	<input type="text"/> <input type="text"/> <input type="text"/>
2.13	How many complete years (including this year 2009) have you been a mathematics teacher in class 6?	<input type="text"/> <input type="text"/> <input type="text"/>
2.14	How many streams of class six do you teach Mathematics? 1=ONE; 2=TWO; 3=THREE; 4=MORE THAN THREE	<input type="text"/>
2.15	Which are those streams? [FI: THESE DIFFER BY SCHOOL, e.g. 6A, 6B, 6B or 6K1, 6K2, 6K3 etc?]	A _____ B _____ C _____
2.16	In total, how many Mathematics lessons do you teach in class six in a week?	<input type="text"/> <input type="text"/> <input type="text"/>
2.17	How often does the school Principal/Head teacher watch you teach mathematics? 1=OFTEN; 2=SOMETIMES; 3=RARELY; 4=NEVER	<input type="text"/>
2.18	How often does the deputy principle/HOD/Senior teacher/master teacher in the school observe you teach mathematics? 1=OFTEN; 2=SOMETIMES; 3=RARELY; 4=NEVER	<input type="text"/>
2.19	How many times did a mathematics curriculum or subject advisor from the zonal/division/district or province visit you in your classroom, at this or any other school in the last 18 months? 01=NEVER; 02=ONCE; 03=TWICE; 04=MORE THAN TWICE; 05=NOT TEACHING IN THE LAST 18 MONTHS	<input type="text"/> <input type="text"/> <input type="text"/>
[IF 01, SKIP TO 2.20]		
2.20	Which of the following activities did the mathematics curriculum or subject advisor undertake if s/he visited? 1=YES; 2=NO	
	A LOOKED AT LEARNERS WORK IN CLASS	<input type="text"/>
	B CHECKED MY FILES AND RECORDS	<input type="text"/>
	C DISCUSSED MY TEACHING AND AREAS OF IMPROVEMENT	<input type="text"/>
	D SUGGESTED ATTENDING A TRAINING SESSION	<input type="text"/>
	E EXPLAINED CURRICULUM CONTENTS	<input type="text"/>
	F RECOMMENDED NEW TEACHING MATERIALS OR METHODS	<input type="text"/>
	G GAVE ME NEW MATERIALS AND TEXTBOOKS	<input type="text"/>
	H OTHER(SPECIFY) _____	<input type="text"/>

2.21 Have you covered any of the following Mathematics topics so far in your class 6 this year?

1=YES; 2=NO; 3=CANNOT REMEMBER

- A WHOLE NUMBERS ☐
- B FRACTIONS ☐
- C DECIMALS ☐
- D PERCENTAGES ☐
- E OPERATIONS ☐
- WHOLE NUMBERS ☐
- FRACTIONS ☐
- DECIMALS ☐
- PERCENTAGES ☐
- F MEASUREMENT ☐
- G AREA ☐
- H PERIMETER ☐
- I VOLUME, ☐
- J CAPACITY, ☐

- K MASS ☐
- L GEOMETRY ☐
- M MONEY AND RATES ☐
- N MODELS ☐
- O ALGEBRA ☐
- P SCALE DRAWING ☐

2.22 In total, how many lessons do you teach in all subjects and classes in this school in a week?

2.23 How often do you deal with learner discipline problems?

01=SEVERAL TIMES A DAY; 02=ONCE A DAY; 03=SEVERAL TIMES A WEEK;

04=ONCE A WEEK; 05=LESS THAN ONCE A MONTH; 06=NEVER 96=OTHER (SPECIFY) _____

2.24 How often do learners in the school threaten or hurt other learners?

01=SEVERAL TIMES A DAY; 02=ONCE A DAY; 03=SEVERAL TIMES A WEEK;

04=ONCE A WEEK; 05=LESS THAN ONCE A MONTH; 06=NEVER 96=OTHER (SPECIFY) _____

2.25 How often do teachers in the school threaten or hurt learners physically?

01=SEVERAL TIMES A DAY; 02=ONCE A DAY; 03=SEVERAL TIMES A WEEK;

04=ONCE A WEEK; 05=LESS THAN ONCE A MONTH; 06=NEVER 96=OTHER (SPECIFY) _____

2.26 How often do outsiders threaten or hurt learners in your school?

01=SEVERAL TIMES A DAY; 02=ONCE A DAY; 03=SEVERAL TIMES A WEEK;

04=ONCE A WEEK; 05=LESS THAN ONCE A MONTH; 06=NEVER 96=OTHER (SPECIFY) _____

2.27 what activity takes you out of school **most often**?

01=UNION MEETINGS; 02=DEPARTMENTAL OR COMMITTEE MEETINGS;

03=CONSULTATIONS WITH OTHER TEACHERS; 04=DOMESTIC RESPONSIBILITIES

05=RESPONSIBILITIES RELATED TO SECOND JOB;

06=RESPONSIBILITIES RELATED TO MY COMMUNITY SUCH AS LOCAL POLITICS

07=CONSULTATIONS WITH LEARNERS

08=CONSULTATIONS WITH PARENTS OR GUARDIANS OF LEARNERS

09=TRAINING OR PROFESSIONAL DEVELOPMENT

96=OTHER (specify) _____

99=I AM NEVER TAKEN OUT OF MY CLASSES

2.28 What is your **typical means** of transport from your residence to this school?

01=WALKING; 02=BICYCLE; 03=MOTOR-CYCLE; 04=PUBLIC TRANSPORT;

05=DRIVING PRIVATE/SCHOOL VEHICLE

2.29 Using this means (in 2.27), how long does it take you to get to school?

[ENTER RESPONSE IN MINUTES e.g. 2hrs=120 minutes]

2.30 How many of the families of the learners you teach do you know?

01=ALL THE FAMILIES; 02=THREE QUARTERS OF THE FAMILIES; 03=ABOUT HALF OF THE FAMILIES

04=ABOUT A QUARTER OF THE FAMILIES; 05=NONE OF THE FAMILIES 96=OTHER (SPECIFY) _____

2.31 Do you frequently face the following problems in **your class(es)**?

1=YES; 2=NO

[FI: READ OUT THE OPTIONS ONE AT A TIME AND CODE APPROPRIATELY]

- A DISCIPLINE
- B LACK OF RESOURCES/FINANCES/POVERTY/HUNGER
- C LACK OF PARENTAL/ FAMILY INVOLVEMENT
- D BULLYING/FIGHTING AMONG PUPILS
- E SAFETY/SECURITY
- F TEACHER ABSENTEEISM
- G LEARNER ABSENTEEISM
- H CLASS SIZE IS TOO BIG
- I LACK OF TEACHERS
- J LEARNERS NOT DOING THEIR WORK
- K TEACHERS NOT DOING THEIR WORK/LACK OF GOOD UNDERSTANDING
- L LANGUAGE PROBLEMS
- M LACK OF KNOWLEDGE/ NO INTEREST
- N NO INTEREST (ON PUPIL'S PART)
- O NEW POLICIES/WORK LOAD/CANNOT COVER THE SYLLABUS

<input type="checkbox"/>
<input type="checkbox"/>
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<input type="checkbox"/>
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<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

2.32 Is there an education resource center which serves your school?

1=YES; 2=NO

<input type="checkbox"/>

IF 2, SKIP TO 3.0]

2.33 Have you visited the education resource center in the last 18 months?

1=YES; 2=NO

<input type="checkbox"/>

IF 2, SKIP TO 3.0]

2.34 What reasons made you visit the education resource center?

1=YES; 2=NO

- A BORROW TEACHING/LEARNING MATERIALS
- B MAKE TEACHING/LEARNING MATERIALS
- C ATTEND TRAINING COURSES
- D EXCHANGE IDEAS WITH TEACHERS FROM OTHER SCHOOLS
- E SEEK ADVICE FROM THE STAFF OF THE RESOURCE CENTER
- F OTHER(SPECIFY)_____

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

3.0 SOME QUESTIONS ABOUT YOUR PLACE OF ABODE/HOME

3.1 Which of the following things do you have **access** to in the place (home) where you stay **during the school week?**

1=YES; 2=NO

[FI: READ OUT THE OPTIONS TO THE RESPONDENT. INCLUDE ITEMS CURRENTLY BROKEN BUT CAN BE REPAIRED]

- A DAILY NEWSPAPER
- B WEEKLY OR MONTHLY MAGAZINE
- C RADIO
- D TV SET
- E VIDEO CASSETTE RECORDER (VCR)/DVD
- F CASSETTE PLAYER
- G TELEPHONE/MOBILE PHONE
- H REFRIGERATOR/FREEZER
- I CAR
- J MOTORCYCLE
- K BICYCLE
- L PIPED WATER
- M ELECTRICITY, GENERATOR, SOLAR
- N TABLE TO WRITE ON
- O TOILET IN THE HOUSE

3.2 Approximately how many of the following livestock are owned by the household or place where you stay **during the school week** [FI: PLEASE WRITE THE NUMBER IN THE BOXES FOR EACH ITEM e.g. 0012 FOR 12]

- A Cattle
- B Sheep
- C Goats
- D Horses
- E Donkeys
- F Pigs
- G Poultry
- H Camels

3.3 What is the **main source of lighting** by which you can read in the place (home) where you stay **during the school week?**

01=FIRE; 02=CANDLE; 03=PARAFFIN OR OIL LAMP; 04=GAS LAMP;
05=ELECTRIC LIGHTING, SOLAR, GENERATOR; 06=THERE IS NO LIGHTING

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4.0 SOME QUESTIONS ABOUT MATHEMATICS

4.1 Does the school report for each pupil include a specific section for comment on Mathematics? 1=YES; 2=NO

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4.2 How important do you consider the following pupil activities in the teaching of Mathematics?

1=NOT IMPORTANT; 2=OF SOME IMPORTANCE; 3=VERY IMPORTANT

[FI: PROBE AND APPROPRIATELY INDICATE ALL THAT APPLY]

- A WORKING IN PAIRS OR GROUPS TO SOLVE MATHEMATICS PROBLEM
- B WORKING ALONE ON PROBLEMS
- C PREPARING PROJECTS OR POSTERS TO BE SHOWN TO CLASS
- D USING PRACTICAL EQUIPMENT E.G. SCALES, RULERS, CALCULATORS, TAPE MEASURES etc
- E HOME ASSIGNMENTS
- F STUDYING AND INTERPRETING GRAPHS FROM MAGAZINES, NEWSPAPERS etc
- G RECITING TABLES, FORMULAE, etc
- H QUIZZES, TESTS, EXAMINATIONS, etc

4.3	Of the eight activities listed above (in question 4.2), select the one you consider to be the most important [FI:INDICATE LETTER CORRESPONDING TO THE MOST IMPORTANT ACTIVITY CHOSEN]	<input type="checkbox"/>
4.4	Do you ask parents or guardians to sign pupils books to indicate that they have completed their Mathematics home assignments?. 1=YES; 2=NO	<input type="checkbox"/>
4.5	How important do you consider the following pupil activities in the teaching of Mathematics? [FI: READ OUT, PROBE AND CODE APPROPRIATELY] 1=NOT IMPORTANT; 2=OF SOME IMPORTANCE; 3=VERY IMPORTANT	
	A BASIC NUMERACY	<input type="checkbox"/>
	B PROBLEM SOLVING (TRANSFER OF SKILLS TO EVERY DAY LIFE & APPLYING KNOWLEDGE)	<input type="checkbox"/>
	C THINKING SKILLS INCLUDING DIFFERENT WAYS OF THINKING IN SOLVING MATHS PROBLEM	<input type="checkbox"/>
	D CONFIDENCE IN SOLVING MATHEMATICS PROBLEMS	<input type="checkbox"/>
	E SATISFACTION FROM DOING MATHEMATICS	<input type="checkbox"/>
	F OPENING UP CAREER OPPORTUNITIES	<input type="checkbox"/>
	G DEVELOPMENT OF LIFE SKILLS	<input type="checkbox"/>
4.6	Of the seven goals listed above (in question 4.5), select the one you consider to be the most important. [FI:INDICATE LETTER CORRESPONDING TO THE MOST IMPORTANT ACTIVITY CHOSEN]	<input type="checkbox"/>
4.7	How often do you use the following approaches when teaching Mathematics? 1=OFTEN; 2=SOMETIMES; 3=RARELY; 4=NEVER [FI: READ OUT, PROBE AND CODE APPROPRIATELY]	
	A USING EVERYDAY PROBLEMS (VERBALLY, WRITTEN OR WORKSHEETS)	<input type="checkbox"/>
	B TEACHING THE WHOLE CLASS AS A GROUP	<input type="checkbox"/>
	C TEACHING IN A SMALL GROUP	<input type="checkbox"/>
	D TEACHING INDIVIDUALLY	<input type="checkbox"/>
	E TEACHING THROUGH QUESTION AND ANSWER TECHNIQUES	<input type="checkbox"/>
	F GIVING POSITIVE FEEDBACK	<input type="checkbox"/>
	G RELATING TO EVERYDAY LIFE SITUATIONS AS MUCH AS POSSIBLE	<input type="checkbox"/>
	H BASIC TRAINING SKILLS	<input type="checkbox"/>
	I EXPLAINING MATHEMATICAL PROCESSES	<input type="checkbox"/>
	J USING AVAILABLE LOCAL MATERIALS (E.G., FOR MEASURING AREA OR VOLUME)	<input type="checkbox"/>
4.8	How often do you give your pupils a written test in Mathematics? 01=I DO NOT TEST THE PUPILS; 02=ONCE PER YEAR; 03=ONCE PER TERM; 04=TWO OR THREE TIMES PER TERM; 05=ONCE A MONTH; 06=TWO OR MORE TIMES PER MONTH	<input type="checkbox"/> <input type="checkbox"/>

5.0 QUESTIONS ABOUT YOUR STANDARD SIX CLASS AND YOUR TEACHING

5.1	How many books do you have in your classroom library or book corner? (FI: PROBE BUT DO NOT INCLUDE MAGAZINES OR NEWSPAPERS. IF THERE IS NO CLASSROOM LIBRARY OR BOOK CORNER WRITE '000' IN THE BOXES PROVIDED)	<input type="text"/> <input type="text"/> <input type="text"/>
5.2	How many of the following do you have in your classroom or teaching area? [FI: WRITE '00' IF NONE]	
	A SITTING PLACES FOR PUPILS (ON CHAIRS OR ON BENCHES)	<input type="text"/> <input type="text"/>
	B WRITING PLACES FOR PUPILS (ON DESKS OR TABLES)	<input type="text"/> <input type="text"/>

5.3	Which of the following are available in your classroom or teaching area? [FI: PROBE AND CODE APPROPRIATELY]	1=YES, 2=NO	
	A A USABLE WRITING BOARD (BLACK, WHITE, GREEN)		<input type="checkbox"/>
	B CHALK (OR OTHER MARKERS)		<input type="checkbox"/>
	C A WALL CHART OF ANY KIND		<input type="checkbox"/>
	D A CUPBOARD OR LOCKER		<input type="checkbox"/>
	E ONE OR MORE BOOKSHELVES		<input type="checkbox"/>
	F A CLASSROOM LIBRARY, BOOK CORNER OR BOOK BOX		<input type="checkbox"/>
	G A TEACHER'S TABLE		<input type="checkbox"/>
	H A TEACHER'S CHAIR		<input type="checkbox"/>
5.4	Do you have access to the following items/materials in your school? [FI: READ OUT THE OPTIONS, PROBE AND CODE APPROPRIATELY]	1=YES, 2=NO	
	A A MAP		<input type="checkbox"/>
	B AN ENGLISH DICTIONARY		<input type="checkbox"/>
	C GEOMETRICAL INSTRUMENTS (e.g. COMPASS, PRO-TRACTOR) FOR USE ON WRITING BOARD		<input type="checkbox"/>
	D TEACHER'S GUIDE (MATHEMATICS)		<input type="checkbox"/>
5.5	How many hours , on average, do you spend in a typical school week working on lesson preparation ?		<input type="text"/>
5.6	How often do you usually meet with the parents or guardians of the pupils in your class to discuss pupil performance or related matters?		<input type="text"/>
	1=NEVER; 2=ONCE A YEAR; 3=ONCE A TERM; 4=ONCE OR MORE A MONTH		
6.0 COMMENTS, INTERVIEW RATING AND WIND UP			
6.1	RECORD COMMENTS ABOUT THE INTERVIEW _____		
6.2	RATE THE INTERVIEW	1=VERY BAD; 2=BAD; 3=AVERAGE; 4=GOOD; 5=VERY GOOD	<input type="text"/>
6.3	RESULT OF INTERVIEW		<input type="text"/>
	01=COMPLETED; 02=RESPONDENT CANNOT ANSWER (e.g. IS CHALLENGED)		
	03=RESPONDENT IS OUT OF SCHOOL FOR EXTENDED PERIOD;		
	05=RESPONDENT'S WHEREABOUTS ARE UNKNOWN; 96 OTHER (specify); _____		
	97=RESPONDENT REFUSED TO BE INTERVIEWED		
6.4	RECORD END TIME		<input type="text"/>
6.5	FIELD SUPERVISOR/TEAM LEADER'S CODE		<input type="text"/>
6.6	DATA ENTRY CLERK'S CODE		<input type="text"/>