

QUESTIONNAIRE FOR STUDENTS

Dear Students,

I am Ema Theobald Boki, a PhD student in Mathematics Education at the University of Dar es Salaam. I am currently conducting a research study on coping strategies and the challenges you face when learning mathematics without a teacher due to teacher shortages. The purpose of this study is to help solve the problem of the shortage of mathematics teachers by introducing an innovative intervention for improving your self-directed learning in the classroom in the absence of a teacher. I am kindly requesting your cooperation in answering questions on how you learn mathematics without or in the absence of a teacher in the classroom. Your participation in this study is entirely voluntary. You may choose not to answer any question, and you are free to withdraw from the study at any time without penalty or negative consequences. This research is for academic purposes only and your views and contributions will be kept confidential.

A. INSTRUCTIONS

- i. Please, Put (✓) beside the answer which you think expresses your view or opinion.
- ii. In some instances, you have to give your opinions by filling in the blanks.

B. DEMOGRAPHIC INFORMATION

- i. Gender: (a)Male () (b)Female ()
- ii. Grade/Class: (a) Form 1 () (b)Form 2 () (c) Form 3 () (d) Form 4 ()
- iii. Age: (a) 13-15 () (b) 16-18 () (c) 19-21 () (d) Above 21 ()

C. STRATEGIES YOU USE TO LEARN MATHEMATICS WITHOUT A TEACHER

1. Do you encounter a situation where you have to learn mathematics without the teacher's guidance?
a) Yes () (b) No ()
2. When did you have to learn mathematics on your own because there was no teacher to teach your class? /because your class had no teacher to teach mathematics
 - a) In form one first term ()
 - b) In form two, first term ()
 - c) In form three, first term ()
 - d) In form four ()

3. How often do you engage in self-directed learning of mathematics when there is no teacher present?

- a) Frequently () (b) Repeatedly () (c) Sometimes ()
(d) Infrequently () (e) Rarely ()

4. Kindly read these sentences carefully about strategies students use in learning mathematics on their own without teacher guidance and express your opinion by marking (✓) in the respective box next to each sentence to indicate 1= Always, 2= Often 3= Sometimes, 4= Rarely, and 5= Never with each strategy.

When learning mathematics on my own:

S/N	Coping Strategies	1	2	3	4	5
1.	I prefer to seek help from classmates or peers.					
2.	I prefer to refer to textbooks or other printed materials.					
3.	I prefer to use pamphlets or Vitini with solved questions					
4.	I prefer to attend classes outside school hours (tuition)					
5.	I prefer to use NECTA review books					
6.	I prefer to utilize online resources or educational websites.					
7.	I prefer watching video tutorials or instructional videos.					
8.	I prefer to attempt to solve mathematics problems and learn from my mistakes.					
9.	I prefer to seek guidance from family members					
10.	I prefer to use mobile applications or educational software eg. Shule Direct					
11.	I prefer to utilize interactive online platforms eg. Khan Academy					

5. Please explain further the main strategies you use when learning mathematics without a teacher. For each strategy, please explain how you use them and why you prefer them.

.....

.....

.....

.....

.....

.....

.....

.....

6. Kindly rate the effectiveness of the coping strategies you use in learning mathematics on your own by marking (✓) in the respective box next to each sentence to indicate 1= Extremely effective, 2 = Very effective, 3 = Moderately effective, 4 = Slightly effective, 5 = Not effective at all with each strategy.

When learning mathematics on my own:

S/N	Coping Strategies	1	2	3	4	5
1.	I seek help from classmates or peers.					
2.	I refer to textbooks or other printed materials.					
3.	I Use pamphlets or Vitini with solved questions					
4.	I attend extra classes outside school hours (tuition)					
5.	I use NECTA review books					
6.	I Utilize online resources or educational websites.					
7.	I watch video tutorials or instructional videos.					
8.	I attempt to solve problems on my own and learn from mistakes.					
9.	I seek guidance from family members					
10.	I use mobile applications or educational software eg. Shule Direct					
11.	I utilize interactive online platforms eg. Khan Academy					

7. Please explain further, among the strategies you use which one helps you most in learning mathematics on your own and explain how it helps you. If possible give example.

[illegible]

