

ACTION RESEARCH PROJECT

CONDUCTED AND COMPILED BY:

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**TEACHER ST. CYPRIAN BOYS HIGH
SCHOOL IN MERU COUNTY.**

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May the Almighty God bless you all .

DECLARATION

This research action is my own original work. It has not been presented for certification in any other institution.

I therefore declare that this is my original work which has never been submitted anywhere for any assessment or any purpose.

ABSTRACT

The purpose of this research action to be conducted is to establish why students in St. Cyprian boy's school are performing poorly in mathematics.

After identifying the challenges making students fail in mathematics, I will get solution for those challenges in order to improve their performance.

After the research we have been able to identify the solutions which will be implemented to make students perform better.

The following solutions have been identified through research and I recommend their implementation:

1. Inviting motivation speakers for students to change negative attitude toward mathematics.
2. The mathematics teachers to be checking and marking maths assignments
3. Parents and guardians to pay school fees and buy their sons mathematical tables and calculators.
4. Formation of mathematics discussion groups.
5. Introducing more mathematics exams.

Therefore through the research that I have carried it has shown that if the above priority actions are implemented the performance of mathematics in St. Cyprian Boys will improve.

SECTION 1

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INTRODUCTION

St. Cyprian Boys High School is a Boys secondary school located in Meru County, Tigania East Sub-County and in Muthara Location .The school started as a mixed secondary school before it became a boys school.

The school has two streams. The total population of school 246 students and 18 teachers. It is a public County school. It has all infrastructure required for quality education to be offered. It has enough classrooms, 3 science laboratories, enough dormitories, enough washrooms and bathrooms. It has also all facilities for games and sports.

Some of few selected photographs



STUDENTS DURING



SCHOOL GATE



SECTION 2

The mission of the school is to provide and establish a conducive environment for learners to realize their full potential, through optimum utilization of resources for bright future

SECTION 3

The Vision of the school is to be a model school for quality Education.

SECTION 4

Measurable result

The number of students scoring 30% and above in mathematics exam in form 3K to increase to 28 students in the next four months.

SECTION 5

Baseline study (current situation)

From when form four students were in form two their performances in mathematics have been wanting. The results have been poor.

From the results of last four exams it can be seen the performance is poor. I have considered four exams. The numbers of students were 40 in the considered class.

EXAM	NO of students Scoring above 30%	PERCENTAGE %
Form 2K End Term 2	8	20
Form 2K End Term 3	5	13
Form 3K End Term 1	7	18

This shows 80% of the students in the class scored below 30%.

This also shows that in four exams students who have scored above 30% is less than a quarter of the class.

This shows there is a problem in mathematics performance in this class .

Therefore these problem needs to be addressed so that the number of students scoring 30% and above can increase to 28 students by the end of four months.

SECTION 6

Obstacles and their causes

The following are obstacles which we have to overcome so that students in this class can improve performance in mathematics. when they improve we will have more than 70% of student scoring 30% and above:

- i. Negative attitude toward mathematics
The root cause of this obstacle is lack of motivational speakers on the Importance of mathematics. They also lack career guidance on importance of mathematics in most carriers like medicine, Engineering and Technology careers.
- ii. Failure of all students to do all mathematics assignments given by maths teacher. The root cause of these obstacle is maths teacher does not check assignments and mark all of them
- iii. Students lack maths exams exposure. The students do only two exams in a term. That is opener exam and end term exam. The root cause of this obstacle is school exam policy not having many exams.
- iv. Students lack discussion groups for mathematics. The root cause of this obstacle is teacher has not formed discussion groups. They have not coordinated discussion among the students
- v. Students lack mathematics apparatus like scientific calculators, mathematically set, mathematical table and Geometry ruler. The root cause of this obstacle uncooperative parents and guardians who does not buy for their sons maths apparatus
- vi. Students absentseem. When the students are sent home for school fees takes about four days before reporting back. The root cause of these obstacle not being serious in playing their role of paying school fees

SECTION 7

Challenge statement

Form 3K students in St. Cyprian Boys High School will improve in mathematic performance. 28 students will score 30% and above marks in maths exam by overcoming the obstacles i have identified.

SECTION 8

Priority actions

The following are priority actions which I will take to address the root causes of the obstacles which I have identified .

- i. For the first root cause for the first obstacle we are going to engage services of motivational speaker who will address the issue of altitude change towards mathematics. He will motivate students to have positive attitude towards mathematics . We will also guide students on career opportunities requiring mathematics ii. The root cause of the second obstacle we will address it by talking to the subject teacher and showing him the importance of checking and marking the maths assignments.

We shall work has team and help him to check those assignments iii. The root cause of the third obstacle will be addressed by introducing two more exams at the end of first month and second month of the term. Students will be required to do four maths exams in a term. To implement this will work with the administration to change exam policy regarding mathematics .

- iv. The root cause of the fourth obstacle will be addressed by talking to the students and maths class teacher so that he can form group discussions and coordinate them
v. The root cause of fifth obstacle will be addressed by calling for parent/ guardian meeting through help of the school principal. The parents and guardians will be addressed and shown the importance of buying for their sons mathematical table and Geometry set. The root cause of sixth obstacle will be addressed by organizing for parent and guardian meeting by help of school management. the parents and guardians will be addressed and shown importance of playing school fees in time to avoid students being sent home .

SECTION 9

Resource mobilization

I will mobilize the following stakeholders to assist me to achieve the good of project.

i. Principal and B.O.M

The principal of school will be the one to finance the project where money is required. As secretary of B.O.M he will inform B.O.M the importance of the project Principal will also be incharge of monitoring how the class teacher coordinates the discussion groups and how he marks student's assignment .

ii. Parents and guardians

The principal will convene a meeting of parents and guardians. The parents will be reminded of their parental responsibility in paying school fees and buying mathematics apparatus a for their sons.

iii. Mathematics department Head (H.OD)

He will be required to monitor how project is being implemented and oversee the change of exam policy together with H.OD of career academic department.

iv. All teachers will also be required to encourage students to like mathematics.

SECTION 10

Action plan worksheet

Mission: To provide and establish a conducive environment for learners to realize their full potential, though optimum utilization of resources for bright future.

Vision

To be a model school for quality education

Challenge statement

Form 3K students will improve in mathematics performance 28 students will score 30% and above marks by the end four months.

Current situation

It is only seven students who are scoring 30% and above in the mathematics exams.

Measurable result

By the end of four months the number of students scoring 30% and above will increase to 28

STAKEHOLDERS AND RESOURCES

NEEDED TO ACHIEVE PRIORITY ACTIONS

	Name of stakeholders and resources needed	The specific request made to the stakeholders	Person that made the request	Period when the request was made
1	Principal is stakeholder and finances are needed	To avail money to pay motivational speaker	3K maths class teacher	First week of term 2 2023
2	Maths teacher Time needed	To check students assignments and mark	H.O.D maths	2 nd week of term two 2023
3	Careers /Academic department	To change exam policy and have 3 exams per term	H.O.D maths	First week of second term
4	Class 3K maths teacher	To form maths discussion groups	Deputy principal	First week of second term
5	Parents and guardians	To avail themselves for meeting.	Principal	Friday of second week of second term
6	Parents and guardians	To avail themselves for meeting .	Principal	Friday of second week of second term

	CAUSES OF THE OBSTACLE	PRIORITY ACTIONS
1	Negative attitude due to lack of motivational speakers .	Motivation speakers and career guidance personnel sourced .
2	Failure by maths teacher to check assignments.	Talking to the maths teachers and close monitoring by the principal .
3	Students not doing many exams in a term .	School exam policy to change and have 3 per term.
4	Lack of maths discussion groups formed	The class teacher to form maths discussion group The principal to monitor the progress .
5	Parents and guardians not buying maths apparatus for students	Parents and guardian meeting to be called to discuss the matter parent awareness of their roles .
6	Failure to pay school fees in time by parents and guardian .	Parent and guardian meeting to be called to discuss the issue Parents awareness of roles discussed .

SECTION II ACTION PLAN

Institution: St. Cyprian school **measurable unit:** students scoring 30% and above in form 3K maths will increase to 28 students

	Priority action as outlined in section 8	Persons (s) responsible	Resources needed (human) financial etc.)	Timelines (month)			
				1st	2nd	3rd	4th
1	Inviting motivational speaker	- Maths 3K class teacher -	Money to pay motivational speaker	✓			
2	Checking and marking students assignments	- 3K maths class teacher	- Class teacher - His time	✓			
3	Students to do 3 maths exam in a term.	- Students - Class teacher - Academic H.O.D - Maths H.O.D	- Printing papers - Maths class teacher - Photocopies machines	✓	✓	✓	✓
4	Form maths discussion groups .	- Maths class teacher - H.O.D maths	- Deputy principal - Class teacher - Students	✓	✓	✓	✓

5	Parents and guardians meeting with school management	<ul style="list-style-type: none"> - Principal - B.O.M 	<ul style="list-style-type: none"> - Finances to organize - Parents /guardians 	✓			
6	Parents and guardians meeting with school management	<ul style="list-style-type: none"> - Principal - B.O.M 	<ul style="list-style-type: none"> - Finance to organize parents/ guardians 	✓			

SECTION 12

MONITORING AND EVALUATION PLAN

Time frame	A	B	C	D=C=B	E=C=D
	Current situation baseline	Measurable result	Actual result achieved	Variance	Overall performance
Month 1	7	28	10	-18	3
Month 2	10	28	16	-12	6
Month 3	16	28	23	-5	7
Months 4	23	28	25	-3	2

CONCLUSION

In the four months the number of students scoring 30% marks and above have increased from 7 to 25. From baseline study it was only 18% of class which was scoring 30% and above marks. At the end of four months 63% of class is able to score 30 marks and above.

Therefore this project is beneficial to the institution. Mathematics performance in form 3k has improved tremendously.

The same project can be adopted for all other classes to improve in performance in mathematics subject.

I have learnt from this project that involvement of all stakeholders is key for good performance in a subject. All stakeholders have a crucial role to perform for the students to perform well in academics.