FACTORS AFFECTING PERFORMANCE IN SCIENCES FOR

THE VISIUALLY IMPAIRED AT KCPE IN CNENTRAL

DIVISION, NAROK DISTRICT

KENYA

ΒY

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RESEARCH REPORT SUBMITTED IN TO THE SCHOOL OF OPEN AND DISTANCE LEARNING IN PARTIAL FULFILMENT FOR THE WARD OF BACHELOR OF EDUCATION SPECIAL NEEDS OF KAMPALA INTERNATIONAL UNIVERSITY



AUGUST 2008

DECLARATION

I, TANKI BOXER declare that this project is my original work and has never been presented to any other university for award of any academic certificate or anything similar to such. I solemnly bear and stand to correct any inconsistence.

DATE :29/AV4/2008 Signature

APPROVAL

This is to acknowledge that this Report has been under my supervision as a university supervisor and is now ready for submission.

Signatures

29-08-08

LAAKI SAMSON

AKNOWLEDGEMENT

I also owe a lot of appreciation to all those who assisted me in carrying out this research. I am grateful to my supervisor who tirelessly went through my work and inspired me to dig deeper into the core of the matter. His kind criticism, patience and understanding, assisted me a great deal.

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ABSTRACT

The purpose of this study was to investigate the factors affecting the performance in sciences of the visually impaired learners at KCPE in Central Division, Narok District Kenya.

The specific objectives of the study were to investigate some factors responsible for the poor performance in sciences of the visually impaired learners.

The methods used for data collection were questionnaires to gather information on the attitudes of female students.

The findings indicated that there were some problems faced in learning mathematics by the hearing impaired learners.

The findings recommended that more teachers should be trained in the areas of special needs education so that they gain necessary knowledge and skills to handle and care for the children with disabilities

CHAPTER ONE

INTRODUCTION

1.1 Background of the study

All Kenyan students take national examinations when they finish primary school (the Kenyan Certificate of Primary Education, KCPE) and secondary school (the Kenyan Certificate of Secondary Education, KCSE).

The national examinations are developed and administered by the Kenya National Examination Council. These examinations are not currently altered for visually impaired students, though this is being planned for the future. Visually impaired pupils are now given an extra 30 minutes to finish their exams.

The majority of assessment focuses on the Kenya Certificate of Primary Education (KCPE) exam. Examinable subjects include English, Sciences, Swahili, and Science. This examination occurs at the end of standard eight. Students must score a C- to pass the examination and most secondary schools accept students who have scored a C+ or higher. Many Visiually impaired students have great difficulty in passing the KCPE (Kochung, 2003)

In 2005, the Ministry of education called the performance of Visiually impaired schools "dismal." A 2004 report noted that deaf students perform less well in sciences than the normal counter parts. It's upon such a background that the study will investigate some of the factors responsible for the performance in sciences of the Visiually impaired students in the Kenyan certificate of primary education. . (Edwards Kochung, 2003)

1.2 Statement of the problem

Despite the efforts of educators and parents, the academic performance of children with hearing impairment in Sciences frequently lags behind that of hearing peers (Albertini, 2002). Recognizing that such generalizations refer to visually impaired pupils as a group, and that some visually impaired children excel in academic settings, progress in improving educational outcomes has been disappointing across most academic content areas in Kenya and specifically in Narok west District. It's upon such a problem that this study will be undertaken to find out the reasons why the problem is so and to get solutions to the problem

1.3 Objectives of the study

1.3.1 General objective

The general objective of the study was to investigate the factors affecting the performance in sciences of the visually impaired learners at KCPE in Central Division, Narok District Kenya.

1.3.2 Specific objectives were to;

1. Determine if lack of school resources affects the performance in sciences of the visually impaired learners in Central division.

find out

- 2. To determine if the funding for the visually impaired learners affects performance in sciences.
- 3. To determine if the quality of education affects performance in Sciences of the visually impaired learners in Central division.

1.4 Research questions

- 1. How does the lack of school resources affects the performance in sciences of the visually impaired learners in Central division?
- 2. How does the funding for the visually impaired learners affects performance in sciences?
- 3. How does the quality of education affects performance in math of the visually impaired learners in Central division?

1.5 scope of the study

The study was conducted in Central Division found in the West District of Narok found in Kenya. The study was limited to the objectives of the study. Any other aspect other than the one mentioned in the objectives will not be investigated because of time and money constraints.

1.6 Significance of the study

This study will benefit the following disciplines:

The ministry of education will be able to design policies that can help stake holders to come up with solutions to the problem at hand

The district supervisors will be able to monitor the performance of visually impaired students in comparison to the normal children and report to the authorities on what needs to be done

The parents and the community will be sensitized to advocate for the necessary equipment for their visually impaired children from government to be in the schools where their children attend school.

The teachers will be able to know the methods of educating the children with Hearing impairment in math in order to ensure that they pass the exams

The research will help researchers and academicians to increase on the available literature for further studies

CHAPTER TWO

REVIEW OF RELATED LITERATURE

2.0 Introduction

This chapter reviews literature as an account of the knowledge and ideas that have been established by accredited scholars and experts in the field of study. It is guided by the objectives of the study outlined in chapter one

2.1 Lack of School Resources

The Task Force on Special Needs Education (August 2003) concluded that schools with "learners with hearing impairments" needed the following additional resources: individual hearing aids and batteries, ear moulds, audiometers, speech training units, auditory training units, note-taking devices, a sign language curriculum and dictionaries. (Kochung, 2003)

It found that the government does not pay enough money to supply these resources to the schools that need them. Parents also cannot afford them. Furthermore, many schools are unable to service and maintain the special devices when they need repair. This leads to dependency on NGOs and donors. (Bodner-Johnson, 1986).

It also noted that many classrooms have poor lighting, which can be a problem for deaf learners who use Kenyan Sign Language to communicate.

Many schools also lack the following: Teacher aides; Nursery aides; House mothers/fathers; Sign language interpreters; Note takers;

Counselors; Social workers; Audio-Technicians; and Local Technicians. (Emmorey, 1998)

Learners with hearing impairments leaders in Kenya also say the lack of deaf teachers in deaf classrooms and sign language instructors for teachers are other major resources that are lacking.

2.2 Funding of Deaf Schools and Units

Most programmes in special needs education rely on donor funding, with only some support provided by the government.

The government pays for teachers' salaries, school supervision, examinations, curriculum development, some non-teaching staff salaries, learning materials, and students' tuition. Parents and the local community are supposed to provide physical facilities and equipment. This negatively affects special schools, which have far less students than "normal" schools. (Blackwell, 1978)

The government provides schools with approximately Kenya shillings 1,020/= per student (\$14.57) and Kenya shillings 3,020/- per special needs students (\$43.14). The extra Kenya shillings 2,000/- for special needs students money is meant to accommodate needed support services and learning materials. The government does provide some additional grants to special schools and units. (Edwards Kochung, 2003)

Many special schools provide boarding facilities for students who cannot easily travel every day. Since many parents cannot afford the fees, schools and individual parents often seek out the assistance of donors and well-wishers. Some parents are forced to take their deaf children out of school because of the expenses. (Edwards Kochung, 2003)

2.3 Access and Quality in Education

Access has been the mantra of mainstream education, but it is unclear that this access has been translated into quality education. Stinson and Antia (1999) pointed out that the diversity of settings and students involved in deaf education makes any simple understanding or solutions to the issues facing them unlikely. Clearly, however, simply placing deaf students in public schools does not ensure access to a quality education, regardless of the quality of the classroom for hearing students. Studies involving college-level classrooms have clearly indicated that even with support services such as interpreting or real-time text displays, deaf students are not on an even footing with hearing peers. Regardless of whether the ultimate cause of this discrepancy is a cumulative effect of language deficits (early and/or late), inadequate K-12 educational resources, or something specific to literacy skills, learners with hearing impairments are not gaining all that their hearing peers are gaining in the classroom.

CHAPTER THREE

METHODOLOGY

3.0 Introduction

This chapter explains the methods that the researcher will use to select the geographical areas, from which research will be carried out and methods of selection of respondents. It also explains the methods that will be used to collect process and analyze data.

3.1 Research design

The design that was used consists of both quantitative and qualitative method. Qualitative method was used to collect information regarding the topics from the books of the accredited scholars and researchers while quantitative research was used to gather the perceptions on the academic performance of students in sciences from both the teachers and students. Field work had to be undertaken and this comprised of direct observations and questionnaires for the respondents.

3.2 Study population

The study will comprise of Teachers of learners with special needs in the Division of Central, Narok District.

3.3 sample framework

3.3.1 Sample size

A total of one hundred teachers for the special needs education were conveniently selected to participate. This is because the researchers lives in this same area and has got a better understanding of the problem being investigated.

3.3.2 Sample technique

Using a convenient sampling technique, a total of one hundred respondents was selected for this study.

3.3.3 Sample procedure

In carrying out research, the researcher got a release letter from the course administrators which he took to the schools under study. He then was given permission by the authority to access information from the organization in which he will visit.

3.4 Methods for data collection

3.4.1 Instruments

Questionnaires

These were used to collect information from some teachers since these respondents are literate and are able to understand the language being used.

Observation

These were done to get a better understanding of the problem under study.

3.4.2 Sources of data

This study used both primary and secondary data.

Primary data was collected using questionnaires which was administered to the teachers who will participate in this study.

Secondary data was through Document analysis in the form of Reports, training manual, news papers, and journals for the period under study. They will be read and the required data collected from them.

3.5 Data processing and analysis

Qualitative data involved three sets of activities which include editing, coding and frequency tabulations. Editing was done by looking through each of the field responses from questionnaires ascertaining that every applicable question has an answer and all errors eliminated for the completeness, accuracy and uniformity.

The researcher then proceeded on to coding the various responses given to particular questions that lack coding frames, he then established how many times each alternative response category will be given an answer using tally marks which was later added up. Data was then presented in frequency tabulations rendering it ready for interpretation.



CHAPTER FOUR

PRESENTATION, INTERPRETATION AND DISCUSSION OF THE FINDINGS

4.0 Introduction

This chapter is a presentation, interpretation and discussion of the field results. Results are presented in tables and in form of frequency counts and percentages.

4.1 Demographic Characteristics of Respondents

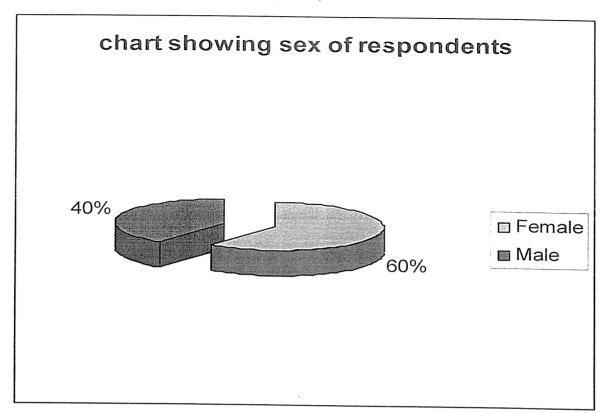
4.1.1 Sex of Respondents

During the survey 60 female respondents (60%) were given the instruments, while 40 male respondents (40%) were given the instruments. Because of the close links of the researcher with these Teachers, all of them helped him answer the questions asked in the interviews, which is 100% response. This is illustrated in the tables below:

Table I: Distribution o	f	the	Respondents by Sex
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Sex	Respondents	Percentage
Female	60	60%
Male	40	40%
Total .	100	100

Source: Fieldwork Narok District (2008)



Source: Fieldwork Narok District (2008)

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4.3 Lack of School Resources

The results on the Lack of School Resources affecting the academic performance in sciences of the visiually impaired pupils are summarized in the table below;

Table II: response on Lack of School Resources and the academic performance in sciences of the visually impaired pupils

		Agree	Not sure	Disagree
	Item			
1	We lack all kinds of learning aids	-		
	for our visually impaired pupils	51%	9%	40%
2	This school does not have the			
	physical facilities were we can	59%	19%	30%
	teach our visually impaired			
	pupils			
3	We do not have enough sign			
	language interpreters in this	54%	16%	30%
	school			
4	This school has no counselors to			
	cater for our special needs pupils	57%	7%	34%
5	The teachers in this school who			
	teachers our special needs pupils	56%	4%	40%
	are not enough to handle them			
	well.			
Sourc	e: Field survey 2008			

Source: Field survey 2008

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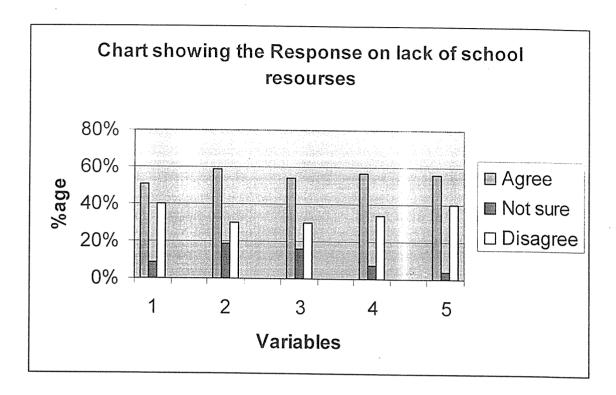


Chart I: Response on Lack of School Resources and the academic performance in sciences of the visually impaired pupils

Source: Field survey 2008

Results from the table and chart I above indicate 59% of respondents are of the view that their school does not have the physical facilities were they can teach the visually impaired pupils . On the other hand 57% of the respondents are of the view the school has no counselors to cater for the special needs pupils. More still, 56% of the respondents are of the view that the teachers in the school who teacher special needs pupils are not enough to handle them well.

4.3 Funding of Deaf Schools and Units

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The results on the Funding of Deaf Schools and Units affecting the academic performance in sciences of the visually impaired pupils are summarized in the table below;

Table III:	response on	Funding	of Deaf	Schools	and	Units	and	the
academic	performance	in science:	s of the	e visually	imp	aired _l	pupil	s

	Items	Agree	Not	Disagree
			sure	
1	The money which comes from government			
	to educate the special needs is not enough	70%	10%	20%
2	The salaries for the teachers are very low			
	and can not take care of their needs.	58%	12%	30%
3	There are no enough boarding facilities for			
	the special needs pupils who can not travel	54%	10%	36%
	back home.			
4	Most donor organizations that fund the			
	special needs schools are not reliable and	60%	7%	33%
	can pull out at any time they feel like.			
Car	rce: Field ourrow 2008			

Source: Field survey 2008

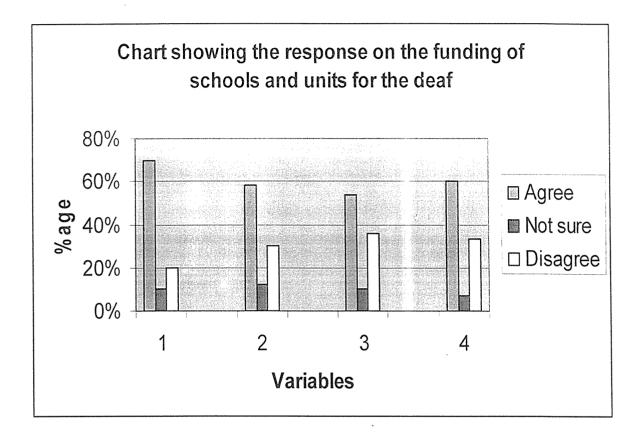


Chart II: response on Funding of Deaf Schools and Units and the academic performance in sciences of the visually impaired pupils

The results from table III and chart II show that 70% of the respondents are of the opinion that the money which comes from government to educate the special needs is not enough. 60% of the respondents are of the view that most donor organizations that fund the special needs schools are not reliable and can pull out at any time they feel like. Further more 58% of the respondents are of the view that the salaries for the teachers are very low and can not take care of their needs.

Source: Field survey 2008

4.4 Access and Quality in Education

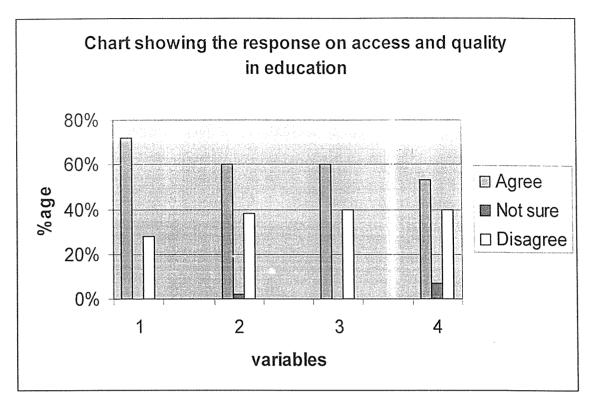
The results on the Access and Quality in Education affecting the academic performance in sciences of the visually impaired pupils are summarized in the table below;

Table III: response on Access and Quality in Education and the academic performance in sciences of the visually impaired pupils

	Items	Agree	Not	Disagree
			sure	
1	The quality of education for the special			
	needs pupils in this school is very low	72%	0%	28%
	compared to other schools			
2	Government has not done enough to			
	improve the quality of education for the	60%	2%	38%
	visually impaired children			
3	Most pupils drop out of school because of			
	the poor quality of education provided	60%	0%	40%
	here.			
4	The teachers for the viewelly impoind	53%	70/	40%
4	The teachers for the visually impaired	55%	7%	40%
	children are not trained to handle the new			
	technology of teaching the visually			
	impaired children			

Source: Field survey 2008

Chart III: response on Access and Quality in Education and the academic performance in sciences of the visually impaired pupils



Source: Field survey 2008

Results from table IV and chat III above show that 72% of the respondents agreed with the statement that the quality of education for the special needs pupils in this school is very low compared to other schools. Also 60% of the respondents agreed with the view that Government has not done enough to improve the quality of education for the visually impaired children. More still another 60% were also of the view that most pupils drop out of school because of the poor quality of education provided here

CHAPTER FIVE

SUMMARY, CONCLUSION AND RECOMMENDATIONS

5.1 Introduction

The study looked at the factors affecting performance in sciences of the visually impaired pupils. In an attempt to achieve the above, three objectives were developed. This chapter presents the summary, conclusions and recommendations of the findings

5.2 Summary of the major findings 5.2.1 Lack of School Resources

The first objective sought to investigate the Lack of School Resources affecting the academic performance in sciences of the visually impaired pupils

The findings revealed that 51% of the respondents agreed with the first statement, 59% of the respondents agreed with the second statement, 54% of the respondents agreed with the third statement, while 57% agreed with the fourth statement and 56% were in agreement with the last statement.

5.2.2 Funding of Deaf Schools and Units

The second objective sought to investigate Funding of Deaf Schools and Units affecting the academic performance in sciences of the visually impaired pupils

The findings revealed that 70% of the respondents agreed with the first statement, 60% of the respondents agreed with the second statement, and 58% of the respondents agreed with the third statement

5.2.3 Access and Quality in Education

The third objective sought to investigate the Access and Quality in Education affecting the academic performance in sciences of the visually impaired pupils

The findings revealed that 72% of the respondents agreed with the first statement, 60% of the respondents agreed with the second statement, and another 60% also greed with the third statement and 56% of the respondents agreed with the fourth statement

5.3 Conclusions

5.3.1 Findings on Lack of School Resources affecting the academic performance in sciences of the visually impaired pupils

The findings revealed that the respondents were in agreement with the following statements: We lack all kinds of learning aids for our visually impaired pupils; This school does not have the physical facilities were we can teach our visually impaired pupils; We do not have enough sign language interpreters in this school; This school has no counselors to cater for our special needs pupils; and The teachers in this school who teachers our special needs pupils are not enough to handle them well.

5.3.2 Findings on Funding of Deaf Schools and Units affecting the academic performance in sciences of the visually impaired pupils

The findings revealed that the respondents were in agreement with the following statements: The money which comes from government to educate the special needs is not enough; the salaries for the teachers are very low and can not take care of their needs; There are no enough boarding facilities for the special needs pupils who can not travel back home and Most donor organizations that fund the special needs schools are not reliable and can pull out at any time they feel like.

5.3.3 Findings on Access and Quality in Education affecting the academic performance in sciences of the visually impaired pupils

The findings revealed that the respondents were in agreement with the following statements: The quality of education for the special needs pupils in this school is very low compared to other schools; Government has not done enough to improve the quality of education for the visually impaired children; Most pupils drop out of school because of the poor quality of education provided here and The teachers for the visually impaired children are not trained to handle the new technology of teaching the visually impaired children.

5.4 Recommendations

In the education of learners with disabilities a law is needed to provide and enforce services for this population. Without laws and national mandates, and ways for ensuring that schools abide by these laws, many learners with disabilities are likely to be locked out of the educational arena. Development of a transition-based service provision model is vital especially for learners with hearing impairment.

Learners with disabilities need to be taught with attention to what, where, and how they are going to live and work as adults. This aspect is lacking in the education of students with disabilities in Kenya.

More teachers should be trained in the areas of special needs education so that they gain necessary knowledge and skills to handle and care for the children with physical disabilities.

5.4 Areas for further research

• Challenges of teachers for learners with hearing impairment

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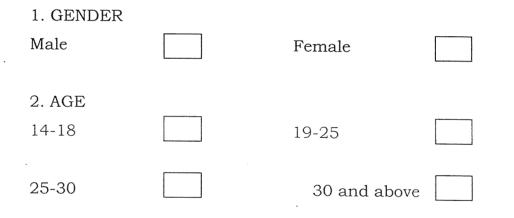
QUESTIONNAIRE FOR TEACHERS

Dear respondent,

I am a student of Kampala International University carrying out an academic research on the topic "factors affecting performance in sciences of the visually impaired pupils." You have been randomly selected to participate in the study and are therefore kindly requested to provide an appropriate answer by either ticking the best option or give explanation where applicable. The answers provided will only be used for academic purposes and will be treated with utmost confidentiality.

NB: do not write your name anywhere on this paper.

A) Personal Information



Evaluate the following statements using the following;

Not sure	Disagree	Agree
3	2	1

(a) Lack of School Resources

1	We lack all kinds of learning aids for our visually impaired pupils	
2	This school does not have the physical facilities were we can teach our visually impaired pupils	
3	We do not have enough sign language interpreters in this school	
4	This school has no counselors to cater for our special needs pupils	
5	The teachers in this school who teachers our special needs pupils are not enough to handle them well.	

(b) Funding of the Schools and Units

1	The money which comes from government to educate the special needs is not enough	
2	The salaries for the teachers are very low and can not take care of their needs.	
3	There are no enough boarding facilities for the special needs pupils who can not travel back home.	
4	Most donor organizations that fund the special needs schools are not reliable and can pull out at any time they feel like.	

5	The funds meant to take care of the well fare of schools is	
	diverted to other things	

(c) Access and Quality in Education

1	The quality of education for the special needs pupils in this school is very low compared to other schools	
2	Government has not done enough to improve the quality of education for the visually impaired children	
3	Most pupils drop out of school because of the poor quality of education provided here.	
4	The teachers for the visually impaired children are not trained to handle the new technology of teaching the visually impaired children	

THANK YOU

