EFFECTS OF INSTRUCTIONAL MATERIALS TO LEARNERS WITH HEARING IMPAIRMENT: A CASE STUDY OF ATHI RIVER DISTRICT IN KENYA

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DECLARATION

Anam Vionne Akinyi, declare that the content of this document is my original work and is never been presented or submitted to any university, college or any institution of arning for any academic award.

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ate: 22nd APRIL 2011

APPROVAL

nis is to certify that this research was supervised and is now ready for submission to e academic board for consideration and approval.

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DEDICATION

wish to dedicate this work to my dear mother who supported me morally and nancially and enabled me to do this research work. I further dedicate it to my eloved colleagues who cooperated in doing all the activities I allocated them.

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thank my almighty God for his continuous support through giving me strength, power, e, wisdom and granting me this favor to be able to accomplish this piece of work.

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TABLE OF CONTENTS

ECLARATION	
PPROVAL	
EDICATION	ii
CKNOWLEDGEMENTS	i\
st of Tables	vii
st of Figures	i
HARTER ONE	_
A Realization of the Chief.	
0 Background of the Study	
1 Statement of the Problem	
2 Objectives of the study	
2.1 General objectives	
2.2 Specific Objectives	
3 Research Questions	3
4 Scope of the study	3
4.1 Time scope	3
4.2 Geographical scope	3
4.3 Subject scope	3
5 Significance of the Study	4
HAPTER TWO	E
TERATURE REVIEW	
0 Introduction	
1 Characteristics of Hearing Impairments	
2 Impact of Instructional Materials to learners with hearing impairment	
4 Interventions to assist learners with Hearing Impairments	
HAPTER THREE	
ETHODOLOGY	
0 Introduction	42

4 Sample framework	13
4.1 Sample Size	13
4.2 Sampling technique and Procedure	13
5 Methods	14
5.1 Instruments Used for Data Collection	14
5.2 Sources of data	14
6 Data Analysis	15
7 Ethical Consideration	15
8 Limitations	15
9 Delimitations	16
HAPTER FOUR	17
resentation and Discussion of Findings	
.0 Introduction	
.1 Demographic Background of the Respondents	17
.1.1 Sex	
.1.2 Age	18
.1.3 Marital status	18
.1.4 Education background	19
.1.5 Occupation	
.2 Characteristics of Hearing Impairment	
.3 Impact of Instructional Materials	20
.4 Intervention	21
HAPTER FIVE	22
Discussion, Conclusion and Recommendation	22
5.0 Introduction	22
5.1 Discussion	
5.1.1. Characteristics of hearing impairments	22
5.1.2 Impact of instructional materials to learners with hearing impairments	22
5.1.3 intervention	23

2 Conclusion	
3 Recommendations	23
EFERENCES	25
PPENDICES	26
PPENDIX A: WORK PLAN	26
PPENDIX B: BUDGET	27
PPENDIX C: QUESTIONNAIRES	28

List of Tables

ble 1:The sex of the respondents	17
ıble 2: Age of the respondents	18
able 3:The respondent's martial status	
able 4: Education background of the respondents	19
able 5:The respondent's occupation profession	19
able 6: Characteristics of hearing impairment	20
able 7: Impact of Instructional materials	20
able 8: Intervention	21

List of Figures

gure 1: Sex of the respondents	17
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CHAPTER ONE INTRODUCTION

0 Background of the Study

nere are many definitions and classification systems of hearing impairment. By far the lost common division is between deaf and hard of hearing. This would seem simple nough, except that different professionals define the two categories differently. The xtreme points of view are represented by those with a physiological orientation versus lose with an educational orientation. Hearing impairment: is generic term indicating a earing disability that may range in severity from mild to profound; it includes the ubsets of deaf and hard of hearing.

The record of the twentieth century in expanding educational opportunities is a source of shame (UNESCO, 1996). The growth in primary school enrolment in sub-Saharan offication in the quality of education. Varning of the falling quality have become even more persistent in recent years, as the inancial squeeze and tighter budget have starved education system of essential operating inputs in terms of text books, physical facilities and support from stake nolders.

nstructional materials are materials that are used to aid in the transference of nformation from one to another. For example, a teacher may use instructional materials o aid in the learning of subject matter for a class. These instructional materials could nclude: Power Point presentations (visual aids), Books, Articles and Materials for project development. The list can go on and on. Some call them instructional materials, while others may call them learning or teaching aids.

Primary education is the key basic foundation for the socioeconomic and political development of any country. The only formal education that most of today's African child can hope to receive is the kind that ensures quality at all levels (UNESCO, 2005).

nortages of teachers, who are skilled in teaching learners with hearing problems, in ost public schools could also be a major impact of instructional materials to hearing spairment. This is majorly due to mass influx of learners into schools as a result of free and compulsory primary education. This can make teachers unable to cope with the orkload which is experienced in classrooms, hearing impairment has been greatly indered since this factor has been given little consideration especially in Kenya JNESCO, 2005). Teachers' Vs individual pupil's interaction is quite minimal. Due to sis, poor performance has been experienced in most schools and failure to acquire lementary skills such as reading and writing. Therefore, the government ought to screase the number of teachers into classrooms to ensure quality instruction in the sclusive setting.

'oor learning outcomes have been experienced in Metkei division over the last decade. It is against this background that this research study will be set to determine impact of naturational materials on learners with hearing impairment by focusing on adequacy of eachers, learners and teachers' attitudes, physical facilities and parents' role in filling he gaps.

1.1 Statement of the Problem

According to the World Bank, there has been tremendous growth in the provision of free primary education in sub—Saharan Africa in the last fifteen years. Enrolment in primary schools in the region has increased greatly (Heneveid & Hellen, 1996). This expansion has put pressure on the quality of primary education as the number of learners continues to rock high levels. Due to this, it has reduced government's ability to support schools in terms of teachers, teaching/learning materials and physical infrastructure.

Poor learning outcomes have been experienced over the last one decade. It is against this background that this research study was set to determine factors the impacts of instructional materials on learners with hearing impairment.

2 Objectives of the study

nis research is guided by two sets of objectives

2.1 General objectives

o find impact of instructional materials on learners with hearing impairments in Athi iver District Kenya

.2.2 Specific Objectives

Establish characteristics of hearing impairments in Athi River District

- Establishing the impacts of instructional materials to learners with hearing impairments in Athi River District
- i) Interventions to assist learners with hearing impairments in Athi River District

.3 Research Questions

- What are the characteristics of hearing impairments in Athi River District?
-) What are the impacts of instructional materials to learners with hearing impairments in Athi River District?
- ii) What are the interventions to assist learners with hearing impairments in Athi River District?

1.4 Scope of the study

1.4.1 Time scope

The study was carried out between December 2010 and March 2011

1.4.2 Geographical scope

The research was conducted in Athi River District.

1.4.3 Subject scope

The study is about the impacts of instructional materials to learners with hearing impairments in Athi River District.

5 Significance of the Study

Be a guide to the government in establishing strategies for monitoring quality education in inclusive setting in public primary schools.

Make recommendation that would stimulate the government effort to find solutions to problems facing inclusive education.

-) Serves as a reference guide among other divisions within the district in terms of provision of instructional materials in our inclusive education setting in primary schools.
- The teachers would be in-serviced on proper methods of handling children with disabilities. Teachers would be encouraged to develop positive attitudes towards SNE learners. Apart from being a role model, teaches would also find joy in their teaching career and accept any learner as unique individual with varied abilities.
-) The parents who are the key players in education will be well informed and be educated on the current issues related to child rights and their access to education. They will also be responsible for providing basic needs. Above all, they would start to treat learners with disabilities as equal with the rest of the children as the saying goes "disability is not inability".
- ri) Rise in issues that will require further research by other scholars of the curriculum implementation.

CHAPTER TWO

LITERATURE REVIEW

0 Introduction

he general purpose of this review is to provide an overview of impact of instructional laterials on learners with hearing impairments in primary schools as established from revious studies.

he focus of this study is quality. It is therefore important to review literature in specific ariables that can hinder the provision and access to quality education and learning in rimary schools. Education (Ross and Mahick 1990) define quality in education as an improvement in the environment in which the learners work with aids to learning rovided for that purpose by the school system. Hence, the improved environment could express itself as detectable gains in the knowledge, skills and values acquired by the student it focuses on the process of education in school.

This study sought to determine factors that hinder quality process and outcome. Inputs are very important in determining quality of learning environment. Frequent monitoring of learners process in conjunction with prompt constructive feedback are factors that enhance learners motivation and school effectiveness. (Blum 1990). Regular evaluation and feedback help teachers to recognize what learners know and where further instruction is needed. Thus, close monitoring helps to improve quality.

2.1 Characteristics of Hearing Impairments

The causes for hearing loss and the effects it has are simply too varied to lend credence to a typical case. People with hearing impairments have different learning styles and abilities. They do have one characteristic in common: Their ability to hear is limited and this disability may be reflected in other cognitive, academic, physical, behavioral, and communication characteristics.

ognitive: There is considerable debate about the extent to which cognitive evelopment is limited by hearing impairments. The environment of people who are eaf or hard of hearing is often qualitatively different from that of people who can hear. luch of what we think of as intelligence is developed through hearing and using inguage. It has been argued that people with hearing impairments do not think in an interest between the between the cognitive functioning of deaf learners into perspective:

'aul and Jackson (1993) believe that differences in the cognitive performance of earners who are deaf and of their hearing peers are more due to inadequate evelopment of a conventional language system than to limited intellectual ability.

cademic: The severity of the hearing loss, the age of its onset, the socioeconomic tatus of the child's family, and the hearing status of the child's parents are related to he academic success experienced by learners with hearing impairments. Children and roung adults who have mild hearing losses generally perform better academically than hose with severe losses. Learners who are deaf from birth tend to have more difficulty acquiring academic skills than those who hear, then later lose their hearing. Learners with hearing impairments from families of high socioeconomic status and those who have hearing parents tend to experience fewer academic difficulties than learners from families of low socioeconomic status or those whose parents are hearing impaired.

Physical: Few physical characteristics are specific to those who are deaf or hard of nearing. The widespread belief that the individual compensates for deficiencies in one sense by developing extraordinary abilities in another is unfounded. People who are deaf or hard of hearing have senses of sight, smell, taste and touch like their peers who do not have hearing impairments.

A characteristic that does differentiate people with hearing impairments from their neighbors and peers is their functional hearing. Functional hearing refers to a person's ability to understand information presented orally and is related to how a person might

taught. For example, a person with a moderate functional hearing loss might not be be to profit from a normal classroom presentation and would require some structional adaptation to be successful.

ehavioral: Generalizations about the social, emotional, and behavioral functioning of arners who are deaf or hard hearing are based on the performance of these learners n standardized tests. But most of these tests are inappropriate for use with this group.

loores (1987) describes two perspectives on the social, emotional, and behavioral unctioning of those who are deaf or hard of hearing: One is that people with hearing impairments are deviant and experience many problems; the other is that people with learing impairment are different and need access to services that encourage their optimal development. Based on a review of the research on the social and emotional unctioning of people who are deaf, he concludes that: the evidence suggests that the social—emotional adjustment of the deaf is similar to that of the hearing, with great individual variation. Most deaf individuals cope with the reality of deafness as a life—ong condition and lead normal, productive lives. This fact supports the contention that teafness itself has no direct impact, either negative or positive, on the development of a mentally healthy individual.

Recent evidence suggests that those who are deaf prefer to be with others who are deaf, that adults who are deaf tend to cluster in groups, socialize, and marry. There has been much discussion of deaf culture, a concept implying that people who are deaf experience and design their lives differently from the hearing people with whom they share the planet (Humphries, 1993). Accordingly, many people who are deaf see the experiences and signed language of deaf communities as the most important factors in their lives. People who are deaf teach one another how to function in society as well as how to get along with others. Sometimes, parents who are deaf want their children to be born deaf so they can share the culture.

A TOTAL A TO

ommunication: Learning to speak is difficult if you can't hear. Paul and Jackson 993) argue that "most deaf learners have not learned either to speak or sign language a highly competent level despite the advent and proliferation of signed systems . . .". argely as a result of this inadequate development of a primary form of language many arners who are deaf experience difficulties in developing language and literacy skills eeded for effective communication.

.2 Impact of Instructional Materials to learners with hearing impairment

cademic: Learners with hearing impairments from families of high socioeconomic tatus and those who have hearing parents tend to experience fewer academic lifficulties than learners from families of low socioeconomic status or those whose arents are hearing impaired. This is because they are used to sign language. (Luetke Stahlman & Luckner, 1991)

Communication: As stated earlier, communication problems can seriously interfere with interpersonal relationships for learners with hearing impairments who receive all or part of their education in general education classrooms. Their inability to communicate with other learners can delay their language development. Moreover, deaf communicate in ways that are different from those around them can inhibit their social interaction and development.

Interaction is essential to language development and much of language development and communication skills come from the interactions of young children and their parents or other caregivers. The hearing parents of children who are deaf interact differently with their children than the hearing parents of children who are who are hard of hearing. Children who are deaf are often passive participants in communication, as their parents or caregivers bombard them with language stimulation and dominate the communication process. As a result, the vocabulary and syntax of children who are deaf grow slowly.

aptioning: In some cases where captioning or other information is not already railable on audiovisual works or other types of media, it is necessary for the college to 1d captioning to make the information accessible to deaf or hearing impaired learners.

he publisher's response to providing captioning for these materials is varied. Some ublishers want a written request from schools to caption their work which can take reeks and delay student access to class material. Others only want to give permission a caption the work if they are paid or are provided the newly-captioned version by the ollege. Furthermore, other publishers never respond to such requests. Regardless, the chool must still provide access to the material to comply with state disability and aderal ADA laws.

The schools are often put in an untenable position. On the one hand, they are required o provide all learners with disabilities access to instructional materials. On the other nand, they must comply with existing copyright laws. In either case, the schools are rulnerable to law suits. Currently, many publishers provide the schools permission to provide this important service so deaf and hearing impaired learners do not lose raluable instructional time because of not having access to critical course materials. Many copyright holders do not response to the schools request for permission to caption.

This bill attempts to codify current practice in working with the publishers or copyright holders to provide captioning for materials in a timely fashion or providing the schools the permission to caption. In the case where a publisher or copyright holder does not respond or does not have the ability to caption in a timely fashion, the schools would have the authority to caption in time for learners to have access to these materials. The success of deaf and hearing impaired learners is significantly reduced if schools cannot provide access to captioned audiovisual materials being used in classroom instruction.

ne inability to hear does not affect an individual's native intelligence or the physical bility to produce sounds.

ome Deaf learners are skilled lip readers, but many are not. Many speech sounds ave identical mouth movements, which can make lip-reading particularly difficult. For xample "p," "b," and "m" look exactly alike on the lips, and many sounds (vowels, for xample) are produced without using clearly differentiated lip movements.

lake sure you have a Deaf student's attention before speaking. A light touch on the houlder, a wave, or other visual signal will help.

ook directly at a person with a hearing impairment during a conversation, even when in interpreter is present. Speak clearly, without shouting. If you have problems being inderstood, rephrase your thoughts. Writing is also a good way to clarify.

Alake sure that your face is clearly visible. Keep your hands away from your face and nouth while speaking. Sitting with your back to a window, gum chewing, cigarette smoking, pencil biting, and similar obstructions of the lips can also interfere with the affectiveness of communication.

Common accommodations for Deaf or hard of hearing learners include sign language nterpreters, stenocaptioners, assistive listening devices, relay services, volume control relephones, signaling devices (e.g., a flashing light to alert individuals to a door knock or ringing telephone), priority registration, early syllabus, notetakers, and captions for films and videos.

2.4 Interventions to assist learners with Hearing Impairments

Reduce distance between student and speaker as much as possible, when using instructional materials so as to make the pupil get to understood.

Speak slowly and stress clear articulation rather than loudness when speaking.

udent turns head and learns toward speakers.

se face-to-face contact as much as possible. Use complete sentences to provide iditional context during conversations or instructional presentations.

se visual cues when referring to objects in the classroom and during instructional resentation. Have classmates take notes during oral presentations for student to anscribe after the lesson.

ral communication methods emphasize the development and use of skills in the areas f speech, speech reading, and residual hearing. Proponents of this method believe nat the goal of education is the development of skills that foster full participation in nainstream (that is, hearing) society.

Vith sign systems, people with hearing impairments express ideas using manual and ion-manual body movements instead of speech. The manual aspects of this form of communication are displayed by shaping, moving, and positioning the hands. Non-nanual movements include other parts of the body—eyes, eyebrows, cheeks, lips, ongue, and shoulders—in the language being used.

Here it would be interesting to relate the oral-aural controversy that has existed ever since sign language has. Sign Language was founded for the first time in the eighteenth century in Europe. A Frenchman by the name of Charles Michel de l'Epee (born 1712), ntensely religious minded and a priest by profession came across two twin sisters in Paris who were deaf-mute

Assistive listening and telecommunication devices take advantage of residual hearing or other senses to enable people with hearing impairments to communicate better. Hearing aids are the most widely recognized and used assistive listening devices. They are worn in the ear, behind the ear, on the body,

in eyeglass frames. Classroom amplification systems are another form of assistive tening device in which a microphone is used to link teachers to learners who wear a ceiver that often doubles as a hearing aid.

elecommunication devices are small keyboards with screens or printers that can be printed to telephones. Telecommunication devices for the deaf (TDDs) and text elephones enable people with hearing impairments to make and receive telephone alls. When a call is made using these devices, the incoming and outgoing conversation prears on the screen or printer. Computerize fax modems and regular fax machines nable people with hearing impairments to communicate without speaking or hearing by sing the phone system at their home, school, or work.

CHAPTER THREE

METHODOLOGY

.0 Introduction

his is the chapter in which it describes the research design, the study area, and the arget population, sample size, sampling procedures; research instruments and nethods of data collection and analysis that were used in this study.

.1 Research design

'his study used qualitative methods to investigate the impact of instructional materials of learners with hearing impairments. It was basically gender focused where females are to be studied in order to get a clear view on impacts among children.

3.2 The area and population of study

This study was conducted in centres located in Athi River District. Athi River district covered a total area of approximately 302km² and has an urban population of 22,000 and a total population of 48,260. Economic activities in this particular area included ivestock and maize farming.

3.4 Sample framework

3.4.1 Sample Size

A total of eighty (80) respondents were interviewed. These were as follows: - 10 Headteachers, 20 teachers, 30 parents and 20 learners.

3.4.2 Sampling technique and Procedure

According to Mutai (2001) in purposive sampling, the researcher handpicks the cases to be included in his sample on the basis of his judgment of their typical in terms of their current enrolments.

It is through this method that would came up with sample that was satisfactory to his research problem.

econdary data

ext books and other related works of outstanding scholars whether Published, agazines, Written data sources included published and unpublished documents, gency reports, newspaper articles, internet sources and so forth was referred to so as give more light on issues of instructional materials and hearing impairments.

.6 Data Analysis

nata was analysed qualitatively and quantitatively. Different data sets were used in nalyzing data collected, i.e. where necessary SPSS package was used. Bar graphs were used to give a clearer outlook about instructional materials and hearing mpairments and they were done in Microsoft Excel. Recommendations were made using the outcome of the result of the analysis.

3.7 Ethical Consideration

Bearing in mind the ethical issues, the researcher provided the respondents with the necessary information as regards the main purpose of the research, expected duration, procedures followed, and the researcher was in position to keep privacy and not disclose the confidentiality of respondents and researchers responsibility.

3.8 Limitations

The research study was faced by a number of problems and constraints and hence may not adequately meet the intended objectives to the required level.

Financial constraints have limited the researcher from having a thorough research process for instance; undertaking pretexts and piloting studies had to be foregone.

Again data collection and processing was done in bits because the researcher could not raise the required fund in lump some as she had to find herself.

roblem of distance between the researcher and his supervisor while in the field did spede proper continuous assessment of research, thus research process could only edictated when it's already late.

he researcher faced a problem of time constraints. The time allocated for the study as not enough for a through investigation because the research was conducted with cademic urgency in the two years while also the researcher was required to attend to er academic work.

.9 Delimitations

This research which was facilitated by the following favorable factors; Since the researcher was a resident of the area, he had accommodation hence less expenditure.

The researcher being a resident was familiar to the people whom she obtained information. The researcher did not find problems in transport because the infrastructure is good.

CHAPTER FOUR

Presentation and Discussion of Findings

.0 Introduction

this section, a core of the study is presented. Data collected from the respondents is nalysed. The discussion is presented in accordance with research questions and bjectives of the study.

.1 Demographic Background of the Respondents

.1.1 Sex

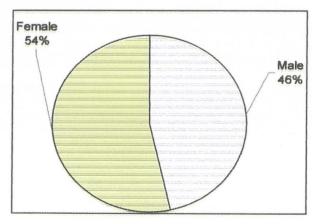
'able 1:The sex of the respondents

Sex	Frequency	Percentage
Male	37	46.25
Female	43	53.75
Total	80	100.00

Source: Field 2011

From the table 4.1, results indicate that majority of the respondents were female (53.75%) while only 46.35 were male.

Figure 1: Sex of the respondents



Source: Fieldwork 2011

1.2 Age

able 2: Age of the respondents

Age brackets	Frequency	Percentage
Below 19	2	02.50
20 - 24	22	27.50
25 - 29	28	3500
30 - 34	19	23.75
35 - 39	5	06.25
40 - 44	3	03.75
45+	1	01.25
Total	80	100.00

Source: Fieldwork 2011

From the table 4.2, majority of the respondents fall in the 25 -29 age group followed by 20 -34, 30 - 34, 35 - 39, 40 - 44, below 19 and 45+ with 35.00%, 24.50%, 23.75%, 3.25%, 3.75%, 2.50% and 1.25% respectively.

4.1.3 Marital status

Table 3: The respondent's martial status

Marital status	Frequency	percentage
Single	35	43.75
Married	25	31.25
Divorced	5	6.25
Never married	15	18.75
Total	80	100.00

Source: Fieldwork 2011

Table 4.3 results indicate that majority of the respondents were single followed by married, never married and divorced with 43.75%, 31.25%, 18.75% and 6.25% respectively.

1.4 Education background

able 4: Education background of the respondents

Level	frequency	Percentage
Primary	8	10.00
Secondary	26	32.50
Tertiary	17	21.25
University	29	36.25
Total	80	100.00

Source: Fieldwork 2011

Table 4.4 shows that most of the respondents were university graduates with 36.25% ollowed by secondary graduates with 32.50%, tertiary and primary with 21.25% and 10.00% respectively.

1.1.5 Occupation

 Fable 5: The respondent's occupation profession

Occupation	frequency	Percentage
Farmer	3	03.75
Others	22	27.50
self employed	10	12.50
Civil servants	45	56.25
Total	80	100.00

Source: Fieldwork 2011

From table 4.5, it can be established that most of the respondents were civil servants with 56.25% followed by others with 27.50% followed by self employed and farmer with 12.50% and 3.75% respectively.

.2 Characteristics of Hearing Impairment

able 6: Characteristics of hearing impairment

Characteristics	Frequency	Percentage
Cognitive	25	31.25
Academic	15	18.75
Physical development	10	12.50
Behaviour	20	25.00
Communication	7	8.75
Others	3	3.75
Total	80	100.00

Source: primary data 2011

From table 6, it can be established that the common characteristic is cognitive with 31.25% followed by behaviour, academic performance, physical development, communication and others with 25.00%, 18.75%, 8.75% and 3.75% respectively.

4.3 Impact of Instructional Materials

Table 7: Impact of Instructional materials

Impact	frequency	percentage
Better Academic performance	17	21.25
Low level of communication	10	12.50
Time wasting in demonstrating	30	37.50
High level Interaction	10	12.50
Captioning	9	11.25
Others	4	5.00
Total	80	100.00

Source: Fieldwork 2011

rom the study it can be established that the most impact of instructional materials to arniers with hearing impairments is time wasting in demonstrating with 37.50% illowed by better academic performance, low level of communication, high level of iteraction, captioning and others with 21.25%, 12.50% and 12.50%, 11.25% and .00% respectively.

hrough the informal interviews with the respondents it was discovered that teachers se a lot of time in demonstrating how the instructional materials work in order to make ne learner achieve or get what he or she is expected to learn.

!.4 Intervention

fable 8: Intervention

Intervention	Frequency	Percentage
Reduce distance while teaching	35	43.75
Speak slowly	16	20.00
Face-to-face	18	22.50
Telecommunication devices	7	8.75
Others	4	5.00
Total	80	100.00

Source: Fieldwork 2011

From the study it was established that most of the respondents gave reducing distance while teaching as the best intervention with 43.75% followed by face-to-face, speak slowly while demonstrating, telecommunication devices and others with 22.50%, 20.00%, 8.75% and 5.00% respectively.

CHAPTER FIVE

Discussion, Conclusion and Recommendation

.0 Introduction

his chapter focuses on the discussion of the results, conclusion and recommendation relation to the purpose of the study, objectives and hypothesis of the study.

.1 Discussion

hrough the study majority of the respondents were female (53.75%) while only 46.35 vere male and they fell in the 25 -29 age group followed by 20 -34, 30 - 34, 35 - 39, 40 - 44, below 19 and 45+ with 35.00%, 24.50%, 23.75%, 6.25%, 3.75%, 2.50% and .25% respectively.

t was also found out that majority of the respondents were single followed by married, never married and divorced with 43.75%, 31.25%, 18.75% and 6.25% respectively. Vlost of the respondents were university graduates with 36.25% followed by secondary graduates with 32.50%, tertiary and primary with 21.25% and 10.00% respectively.

5.1.1. Characteristics of hearing impairments

Through the study it was established that the common characteristic is cognitive with 31.25% followed by behaviour, academic performance, physical development, communication and others with 25.00%, 18.75%, 8.75% and 3.75% respectively.

5.1.2 Impact of instructional materials to learners with hearing impairments

From the study it was shown that the most impact of instructional materials to learners with hearing impairments is time wasting in demonstrating with 37.50% followed by better academic performance, low level of communication, high level of interaction, captioning and others with 21.25%, 12.50% and 12.50%, 11.25% and 5.00% respectively.

1.3 Intervention

rom the study it was established that most of the respondents gave reducing distance hile teaching as the best intervention with 43.75% followed by face-to-face, speak lowly while demonstrating, telecommunication devices and others with 22.50%, 0.00%, 8.75% and 5.00% respectively.

.2 Conclusion

npacts of instructional materials to learners with hearing impairments are closely elated to the support inputs into the system in relation to the raw materials (learner) and the finished product outcome of the success and achievement. These include the scademic performance, communication, interaction, sign language.

5.3 Recommendations

The government should give out credits to the natives and promote financial institutions giving out small loans to people enabling them to develop the quality of education

They should develop a positive lovely attitude towards the people in Keiyo by identifying them as having equal rights and freedom like any other community member and that is their natural right to enjoy them freely so as to eliminate income inequalities.

Enhance sensitization of parents and communities, through public awareness campaigns and other communication strategies on the value of education, with a view to minimizing the impact of the practices that militate against it.

Professional interpreters should be made available and used on a regular basis for ethnic minority during the peace process.

Further more the government should set up a loan scheme. This scheme to be both for the learners and school owners. For learners can borrow the money and pay it after the raduation especially at university level. While school owners can borrow money and ay it after along period of time.

rivate proprietors should ensue that conducive study environment is catered for sarners to perceive whatever has been taught to them. This will be realised when the est structures (classrooms) have been constructed.

REFERENCES

avid Bound et al (1999) The Challenge of Problem Based Learning rd edition Kogan sterling USA

uller Bruce (1986) Raising school Quality in Developing Countries. Wood Bank Vashington USA

Margaret Shart (1995) An introduction to Educational Psychology, Butter Frome .ondon, England.

I/OEST & UNESCO (2005) Challenges of Implementing Free Primary Education in Cenya. rt press Nairobi - Kenya.

onde U. (1989) The Challenge Qua1ity_Jp Primary Education. A lifilage Baden - Serman

Sifuna & Otiende (2006) An introductory History of Education. Nairobi University press Vairobi — Kenya.

UNESCO (2002): Education for All EFA Global Monitoring Report Paris France

Newspaper: Daily Nation, July 17th 2004, pg 2, col: 1-21

APPENDICES

APPENDIX A: WORK PLAN

December 2010	1 st week	Development of proposal
	2 nd week	approval
	3 rd & 4 th week	Collection of data
March 2011	1 st & 2 nd week	Presentation, analysis of data collected
	3 rd & 4 th weeks	Submission

APPENDIX B: BUDGET

ITEMS	COSTS IN KShs.
Stationary	2,000
Printing / binding	1,000
Facilitation /meals	2,000
Transport	5,000
Miscellaneous	2,000
Total	12,000

APPENDIX C: QUESTIONNAIRES

m student at KIU, I am carrying out a research study on the topic: impact of structional materials to learners with hearing impairments in Athi River District

he purpose of this study is to collect data on the topic. Your response will be treated vith confidentiality and the information obtained is strictly for education purposes.

'ou are kindly requested to fill the questionnaire.

Tick where	applicable)
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•	Sex of the respondent	
	Male	
	Female	
<u>}</u> .	Age	
3.	Marital status of the respondent	••••
	Single	
	Divorced	
	Married	
	Never married	
4.	Education level of the respondent	
	Primary level	
	Secondary level	
	Tertiary level	
	University level	
5.	Occupation of the respondent	
	Farmer	
	Business man/woman	
	Civil servant	
	Others	

	SECTION B: Characteristics of hearing impairments
	What are the characteristics of hearing impairments?
7.	After seeing them do you do help the learner with hearing impairments?
	Yes No
3.	If yes what do you do?
	CECTION C. Image etc
_	SECTION C: Imapcts
9.	What are the impacts of instructional materials to learners with hearing impairments?
10	. How have tried to eliminate or solves them?
11	.What are your recommendations to the improvement of quality education?

THANK YOU FOR YOUR COOPERATION

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