

The use of Textbook Illustrations in the Teaching of Reading Comprehension: a study of Secondary Schools in Kathiani District- Kenya

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ABSTRACT : *This paper examines the use of textbook illustrations in the teaching of reading comprehension. These are the underlying issues that emerge out of a research that was conducted in Kathiani District in Kenya, 2010-2011. The study objectives were: to investigate the use of the available textbook illustrations in the teaching of reading comprehension; to establish how the teacher helps the learner make use of textbook illustrations in reading comprehension and; to find out challenges faced by teachers of English in using textbook illustrations in the teaching of reading comprehension. The theoretical framework was based on Piaget's cognitive development theory and Anderson's schema theory of learning. The study used a descriptive survey approach of research. The target population constituted 26 registered secondary schools in Kathiani district. Stratified random sampling was used to select 24 out of the 26 registered secondary schools in the district. Simple random sampling and purposive sampling were used to select form two streams and one teacher of English in the sampled schools. The study sample comprised 24 form two teachers of English from the sampled schools. The instruments of data collection were: a learner reading task, classroom observation and questionnaires. The research instruments were pre-tested to establish their reliability and validity. The data collected was analyzed and interpreted using descriptive statistical techniques. This study found out that very few students use textbook illustrations effectively and that on very rare occasions do teachers help learners to make use of textbook illustrations. It further revealed that teachers of English are faced by numerous challenges when using textbook illustrations where heavy teaching load was the most serious problem. The findings of this study will enable learners, teachers, curriculum designers, course book designers, Ministry of Education and Kenya Institute of Education to review their attention in the use of TBIs in teaching of reading comprehension.*

Key words

Textbook illustration: *It is a visual aid such as drawing, painting, photograph, picture, graph, table or other work of art that emphasizes/enhances the conceptualization of content presented in textual form.*

Teaching: Imparting knowledge, skills and attitudes in a classroom setting using TBIs.

Reading comprehension: level of understanding of a text/message

A reading task: This is a constructed examination from texts aimed at assessing the degree to which readers understand what they read using TBIs

I. Introduction

This paper is a report of a study carried out to find out the classroom practice of teachers and learners of English and their understanding of the use of teaching and learning resources during classroom instruction. Specifically, the paper examines how the teacher helps the learner make use of textbook illustrations in reading comprehension passages, investigates the use of the available textbook illustrations in the teaching of reading

comprehension and; finds out challenges faced by teachers of English in using textbook illustrations in the teaching of reading comprehension. English is the medium of instruction in Kenyan schools. It is a very important subject both in our curriculum and as a service subject, Kenya Institute of Education (KIE, 2002). In the teaching of English, the emphasis should be on the acquisition of communicative competence and not simply on the passing of examinations.

Stern (1983) argues that reading widely helps learners to develop a word bank of vocabulary and exposes them to new ideas and sentence structures that are used later to communicate both verbally and in the written form. Educational goals are shifting from mere acquisition of facts and information to development of reflective thinking and intelligent manipulation of materials (Richards, 1990). Ornstein (1997) indicates that visual resources are needed in order to give a clear concept of information given and to avoid overlapping in decoding information. Having students to use TBIs stimulates their imagination, their poor attitude towards reading is also changed and they come to see how they can understand and comprehend written material; how they can read fluently and efficiently and also appreciate the importance of reading for a variety of purposes. This then ignites the students' ability to develop a life-long interest in reading on a wide range of subjects.

TBIs can be used to activate the schema and also act as pre-reading activities for reading comprehension. Adequate exposure to TBIs helps the students to read and comprehend literary and non-literary materials. Students' ability to read fluently and efficiently is hampered by their lack of comprehension skills highlighted in the syllabus which are: recall, comprehension, application, analysis, synthesis, evaluation, summary and note taking (KIE, 2002). These are skills that can be improved by use of instructional media resources, especially the use of diagrams, charts, pictures and photographs in the textbooks.

II. Statement of the Problem

English is examined in three papers in Kenya Certificate of Secondary Education (KCSE). Paper 1 covers functional skills which are: functional writing, cloze test and oral skills. Paper 2 tests reading comprehension, literary appreciation and grammar usage while paper 3 has 3 questions on essay writing which tests the literary skills, responsiveness to the literary genres, their receptive concerns and the ability to present clear, reasoned and illustrated arguments and are covered under reading. The Kenya National Examination Council (KNEC, 2008) examination report revealed that students do not perform well in English. A more detailed analysis also revealed that students do not read and understand the questions well.

This report further revealed that those questions that tested candidates' ability to infer meaning of words and phrases in context were not well answered and that most candidates were unable to get the meaning of words. Teachers of English were therefore advised to derive meanings of words and phrases from the context, they were also advised to involve students to work out meaning for themselves which is then checked and agreed with the class/teacher's version. It was revealed that most candidates fumbled with questions and earned less marks than they ought to. Teachers were urged to advise candidates to be precise and definite about what they say by illustrating it (KNEC, 2008). English is an alien language and plays no meaningful part in the traditional institutions of the communities from which most learners come from. Consequently its learning provides relatively more problems to learners compared to other subjects. The use of TBIs is therefore, an indispensable component in the teaching and learning of English, in particular reading comprehension passages.

Lack of communicative competence is evident among university students. Barasa (2005) points out that the matter of poor English is more than what the university classroom can correct. He adds that the universities have voiced concern about receiving "freshers" who are unable to speak, read, write or hold discussions in English. The problem of learners' failure to read efficiently and effectively in English therefore needs urgent address and the questions that arise are: how are the available textbook illustrations used in the teaching of reading comprehension; how do teachers help the learners to make use of textbook illustrations in reading comprehension and; which challenges are faced by teachers of English in using textbook illustrations in the

teaching of reading comprehension. These questions were at the heart of the problem for the present study, with the assumption that, by undertaking a study in the use of TBIs in the instruction of reading comprehension, development of reading competence could be improved.

III. Significance of the Study

The research sought to find out how the teachers of English help learners to make use of textbook illustrations in the instruction of reading comprehension passages, to investigate the use of the available textbook illustrations in the teaching of reading comprehension and; to find out challenges faced by teachers of English in using textbook illustrations in the teaching of reading comprehension. The findings of this study will benefit learners, teachers, teacher-trainers, curriculum designers, course book designers and KIE in a number of ways, namely: to provide data to curriculum developers, the KIE, the inspectorate unit and ministry of education, science and technology (MOEST) on the study of the use of media resources in the instruction of reading comprehension in Kenyan secondary schools; to sensitize teachers on the need to effectively use media resources in English pedagogy. This would motivate learners, lead to higher student performance and proficiency in English; to help teacher-trainers who might want to consider putting more emphasis on the secondary school teachers' professional competencies, particularly in the use of TBIs which is largely ignored by teachers today; and to contribute to the world of knowledge that exists on usefulness of TBIs in English and pave way for further scholarly research.

IV. Scope of the Study

The study was conducted in selected secondary schools in Kathiani District of Eastern Province, Kenya. The target population included, English classroom teachers, and form 2 students. Form 2 students were chosen because textbooks used at this level have many illustrations compared to those used by the form three and form four students. The data was collected in January and February and the researcher felt that the form one students were not well versed with the syllabus since they report to secondary schools at the same time when the study was conducted.

The study established how teachers help learners to use TBIs in the instruction of reading comprehension in secondary schools in Kathiani District, investigated the use of the available textbook illustrations in the teaching of reading comprehension and; found out challenges faced by teachers of English in using textbook illustrations in the teaching of reading comprehension. The findings of the research are expected to apply to other areas in the country. This is because teachers of English in the study were viewed as a representative sample of the larger population of teachers of English in the country, since they are trained in the same institutions and use the same syllabus and textbooks for instruction. Students chosen for the study were also assumed to be representative of the larger population of students in the country.

Variables in this study were use of TBIs and the instruction of reading comprehension. Study variables are factors that can take different values and influence the outcome of the research (Kombo and Delno, 2006). This study adopted two study variables for its execution; the independent variable and dependent variable. An independent variable is a factor representing the value (Factors) being manipulated or changed. The dependent variable is the observed result of the independent variable being manipulated, (Kothari, 2004). The independent variable in this study is the use of textbook illustrations and the dependent variable is instruction of reading comprehension.

V. Limitations of the Study

The research area looks quite small compared to the whole country. The results obtained were analyzed and generalized based on the data collected.

Theoretical Framework

This study was based on two theories: Piaget's theory of cognitive development Wardsworth (1984) and the schema theory of learning as developed by Anderson (1998) which support the use of educational media in

education. These two theories support the concept of Schema (background information). Readers combine their own background information in a text to comprehend that text. This is an important concept in English as a second language (ESL) teaching especially when teaching reading comprehension. TBIs can be used to form part of the pre-reading task. This is because the act of comprehension involves one's knowledge of the world as well.

Schemata and the Reading Process

In the process of reading, comprehension of a message entails drawing information from both the message and the internal schemata until sets are reconciled as a single schema or message (Anderson et al. 1982). The process begins much earlier than this. The environment sets up powerful expectations in that, we are already prepared for certain genres but not for others before we open a newspaper, a scholarly journal or the box containing some machine we have just bought (Swales, 1990). The reading process, therefore, involves identification of genre, formal structure and topic, all of which activate schemata and allow readers to comprehend the text (Swales, 1990). In this, it is assumed that readers not only possess all the relevant schemata, but also that these schemata actually are activated. Where this is not the case, then some disruption of comprehension may occur. In fact, it is likely that there will never be a total coincidence of schemas between writer and reader such that coherence is the property of individual readers (Wallace, 1992). Although there will never be a total coincidence of schemas between the writer and the reader, the TBIs can be used to aid in the understanding of the written information.

Schemata and Differences in Comprehension

Differences between writer intention and reader comprehension is most obvious where readers have had different life experiences from the writer's. Teachers should therefore strive to explain to the learners some of the illustrations in their texts especially during reading lessons in order to make them relevant to the learners and enhance understanding of the written material. Carrell and Eisterhold (1983) point out that one of the most obvious reasons why a particular content schema may fail to exist for a reader is that the schema is culturally specific and is not part of a particular reader's cultural background. It is thought that readers' cultures can affect everything from the way readers view reading itself and the contents. Some key concepts may be absent in the schemata of some non-native readers or they may carry different interpretations. For learners reading at the limits of their linguistic abilities, if the topic is outside their experience or base of knowledge, they are adrift on an unknown sea (Aebersold and Field, 1997). When faced with such unfamiliar topics, some students may overcompensate for absent schemata by reading in a slow, text-bound manner; other students may overcompensate by wild guessing (Carrella, 1988). Both strategies are inevitable result in comprehension difficulties. Research by Johnson, (in Carrell and Eisterhold, 1983) suggested that a text on a familiar topic is better recalled than a similar text on an unfamiliar topic. The use of TBIs can aid in recall of the content learned if effectively used by the teachers and students.

Application of Schema Theory to Esl Reading

Carrell and Eisterhold (1983) suggest that every culture-specific interference problem dealt with in the classroom presents an opportunity to build new culture-specific schemata that will be available to the EFL/ESL student outside the classroom. Thus, rather than attempting to neutralize texts, it would seem more suitable to prepare students by helping them build background knowledge on the topic prior to reading, through appropriate pre-reading activities (Carrell b, 1988). Some of the pre-reading activities may include discussing TBIs which a teacher should use to encourage students and prepare them to read and understand a comprehension passage.

Carrell a.(1988) lists numerous ways in which relevant schemata may be constructed. These include lectures, visual aids, demonstrations, real-life experiences, discussion, role-play, text previewing, introduction and discussion of key vocabulary, and key-word/key-concept association activities. Examples of such contextualization include, showing pictures of a city before asking the students to read a text about that city, or playing a video clip from a film adaptation of the novel the class is about to study. Although helpful, these pre-reading activities are probably not sufficient alone and teachers will need to supply additional information to

enhance learners' understanding of the written text. This additional information can come from TBIs during reading lessons.

Reading problems are not just caused by schema deficiencies and the relevant schemata must be activated (Carrell b, 1988). In other words, readers may come to a text with prior knowledge but their schemata are not necessarily activated while reading. Therefore, pre-reading activities must accomplish both goals: building new background knowledge as well as activating existing background knowledge, (Carrell a 1988). Particularly useful and popular here are questioning and 'brainstorming', where learners generate information on the topic based on their own experience and knowledge, (Aebersold and Field, 1997). This can be achieved through the use of TBIs.

Another relevant point is that, because lower level students may have the schemata but not the linguistic skills to discuss them in the second language (L2); the first language could be used to access prior knowledge but teachers must introduce the relevant vocabulary during the discussion, otherwise a schema has been activated but learning the L2 has not been facilitated (Aebersold and Field, 1997).

Functions and Roles of Instructional Media

Davies (1980) divides the function of media into two kinds. They are aids to instruction and aids to learning. The first function is that instructional media serve to help teachers and instructors manage instruction more efficiently. Media assist teachers to communicate more effectively and take over the operating role of instruction from teacher and instructors. The second function is that media serve to help students learn more efficiently, promote understanding, assist in the transfer of training and assist in assessment. Media can also be used in assessing performance. All the above functions of instructional media also apply to TBIs and learners and teachers of English should make use of illustrations in their textbooks because of their educative value. If effectively used, TBIs can enhance comprehension during reading lessons.

Still Pictures and Illustrations

Still pictures are photographic like representations of people, places and things. The still pictures most commonly used in instruction are photographs, postcards, illustrations from books, periodicals, catalogs and so on, (Heinich, Molenda, and Russel, 1993). They also stated the advantages of using still pictures. For example, non-projected still pictures can translate abstract ideas into more realistic format a concept advocated for by Piaget in his theory. Still pictures are easy to use because they do not require any equipment and they are relatively inexpensive. Many can be obtained at little or no cost. Furthermore, pictures play an important role in facilitating the teaching and learning process. Wright (1989) states that pictures are very important to help students to retell experience or understand something since they can represent place, objects and people.

Media Selection

Wright (1989) mentions some consideration in selecting media. First, it should be easy to prepare and to organize in the classroom. Media should be interesting to the students and the teachers, and the way the teacher wants the students to use media will be authentic to the activity. The activity must also give rise to a sufficient amount of language in order to justify its inclusion in the language lesson. A teacher should also consider the importance of the media in attaining the objectives of the lesson and the availability and effectiveness of the media as compared with other media. It means that in using the media, the teacher must be sure that the media used are really important, good and suitable for the class condition and material given. All the above considerations for media selection have been met by TBIs.

The Research Design

A research design refers to the conceptual structure within which research would be conducted. The function of research design is to provide for the collection of relevant evidence with minimal expenditure of effort, time and money (Kothari, 2004). The researcher had to work within a research design because it facilitates the smooth sailing of the various research operations thereby making research as efficient as possible yielding maximal information.

The present study adopted a qualitative survey research design. A qualitative study is concerned with subjective assessment of attitudes, opinions and behaviour. Research in such a situation is a function of researcher's insights and impressions, and such an approach to teach generates results either in non-quantitative form or in the form which are not subjected to rigorous quantitative analysis (Kothari, 2004). Cohen and Manion (2003), state that the intention of a survey research is to collect data at a particular point in time and use it to describe the nature of existing conditions. Kerlinger (1978) adds that surveys are useful for educational fact-finding and provide a great deal of information that is accurate.

Through descriptive survey, views, opinions, attitudes and suggestions for improvement of educational practice have been collected (Kerlinger, 1978). A descriptive survey is a way of collecting information by interviewing or administering questionnaire and using observation on a sample of individuals (Mugenda and Mugenda, 2003). The design focuses attention on the following: formulating the objectives of the study, designing the methods of data collection, selecting the sample, collecting the data, analyzing the data and reporting the findings. The researcher chose this design because of the nature of the investigation. This study was concerned with finding out how the teachers of English help learners to make use of textbook illustrations in the instruction of reading comprehension passages. The researcher used data collection tools which lent themselves well to qualitative design. The research tools used were questionnaires, observation schedules and reading task suitable for a qualitative survey research design.

Study Area

This study was carried out in Kathiani district in Machakos county, Kenya. Education wise, the district is divided into three zones namely: Kathiani, Mitaboni and Iveti each under an Area Education Officer (AEO). The district has 26 registered secondary schools of which 4 are private and 22 are public secondary schools.

Study Population

The study population consisted of English language teachers and form two students from 26 secondary schools in Kathiani district who were in school during the year of study. The rationale for the choice of form two students was based on the premise that textbooks used at this level have many illustrations. The teachers of English were involved because they are the main participants in the teaching of English and are therefore best suited to give information about the use of TBIs in the teaching of reading comprehension.

Sample size and Sampling Procedures

Scheaffer, et al. (1990) defines a sample as a collection of sampling units drawn from sampling frame. In other words, a sample is a finite part of a statistical population whose properties are studied to gain information about the whole. According to Mugenda and mugenda (2003), a sample size is the size which is part of the study population that has been procedurally selected to represent it. Sampling procedures are processes of selecting units for example people or organizations from a population of interest so that by studying the sample, we may fairly generalize the results back to the target population from which they were chosen (Kombo and Delno, 2006).

A sample size of 24 secondary schools was selected from the total number of 26 secondary schools in the district. The researcher used teachers of English and form 2 students from 24 schools. These teachers of English and form 2 students were purposively selected then actual number was randomly selected using simple random sampling technique. Two schools from the district were left out during the main study because they had been recently registered and had only form 1 classes yet the study involved form two students. In the case of schools that had more than one stream, one class was randomly selected to participate in the study. During the study, 24 reading comprehension lessons one from every school were observed and both the 24 teachers and the form 2 students were administered with questionnaires and observed during English language lessons. A reading task was also administered to the form two students.

Data Collection Instruments

The research instruments used for collecting data in this study were questionnaires, observation schedules and a reading task.

VI. Questionnaires

Cohen and Manion (2003) indicated that the use of a questionnaire is the best form of survey in carrying out an educational inquiry. The researcher used questionnaire because it is free from bias and answers are in respondents' own words. In addition, there is low cost even when the population is widely spread geographically and large samples can be used. Therefore, the results can be made more dependable and reliable (Kothari, 2004). The researcher was also aware of the fact that there was the possibility of ambiguous replies or omission of replies altogether to certain questions (Kothari, 2004). The researcher prepared and administered two different sets of questionnaires to gather data related to the use of the available textbook illustrations in the teaching of reading comprehension; how the teacher helps the learner make use of textbook illustrations in reading comprehension and; challenges faced by teachers of English in using textbook illustrations in the teaching of reading comprehension. These two sets of questionnaires were the secondary schools English teachers' questionnaire (SSETQ) and secondary schools form 2 students' questionnaire (SSESQ). The questionnaires comprised closed type items which required the respondent to select one option from the five given alternatives. A reading task and observation schedule were used to minimize the above shortcomings of questionnaire.

Observation

Under the observation method, the information is sought by way of investigators' own direct observation without asking from the respondent (Kothari, 2004). The researcher used classroom observation schedule to collect data during the actual teaching of form two English language lessons. This was necessary to verify responses from the questionnaires and reading task. The researcher observed the use of TBIs by both the teachers and the students during reading comprehension lessons. Observation technique provided a conceptually adequate analysis of classroom life based on factual recording and description. It becomes a scientific tool and a method of data collection when it serves formulated research purposes. It is planned systematically, recorded and subjected to checks and controls on validity and reliability (Kothari, 2004).

A reading task

In order to determine how the teachers help the learners of English to make use of TBIs in the instruction of reading comprehension in secondary schools, a reading task was used. A reading task is a constructed examination from texts designed by the researcher and aimed at assessing the degree to which readers understand what they read using TBIs. The reading task included open ended questions. The learners were administered with 2 reading comprehension passages. One with pictures and another one without pictures and then answered the questions which were set. It was administered to the form 2 students, marked and rated in terms of those that used TBIs effectively and those that did not use TBIs effectively. It was marked out of 25 marks. Scores between 1-12 marks were those that did not use TBIs effectively and scores between 13-25 were those that used TBIs effectively. The standardization of the task was ensured through the use of a comprehension passage for the same level of students from one of the textbooks recommended for use in teaching and learning English language in form 2. The questions were centrally marked in collaboration with teachers of English in the selected secondary schools.

Piloting of Research Instruments

Pilot study is the replica and rehearsal of the main survey. Such a survey brings to the light the weaknesses (if any) of the survey techniques. From the experience gained in this way, improvement can be effected, (Kothari, 2004). A pilot study was conducted on the two sets of questionnaires, the learners reading tasks and the classroom observation schedule two months before the main study after the researcher obtained a research permit from the National Council for Science and Technology and clearance from the District education office (DEO), Kathiani District. The pilot study was conducted among form two students and form two teachers of

English in three secondary schools in the neighboring Kangundo district. This was because the schools in Kangundo district did not constitute the final sample for the main study.

Validity and Reliability of Research Instruments

Sound measurement must meet the tests of validity and reliability. These are the major considerations one should use in evaluating a measurement tool. (Kothari, 2004). The classroom observation schedule, the questionnaires and the reading task were pre-tested in order to find out whether they had any problems in the framing of questions and recording events in the classrooms. This helped to eliminate ambiguous items, repeated items and irrelevant items. The research instruments were piloted to check on their validity and reliability before they were used in the study.

Validity

Validity indicates the degree to which an instrument measures what it is supposed to measure (Kothari, 2004). Best and Khan (1989) concede that validity of an instrument is the right question framed in the least ambiguous way. The research instruments were formulated based on the objectives, literature reviewed and assumptions of the study. The researcher established content validity of the research instruments outlined above before the main research. This helped to eliminate ambiguous items, repeated items and irrelevant items. The researcher consulted experts and specialists in Curriculum, Instruction and educational media, School of Education, Moi University. The suggestions from the experts were used in making the necessary improvements and corrections on the instruments.

Mugenda and Mugenda (2003) describe reliability as a measure of the degree to which a research instrument yields consistent results or data after repeated trials. The researcher piloted the data collection instruments in three secondary schools in the neighbouring Kangundo district to test whether they were reliable two months before the actual research. The reliability was established through the test re-test method for the questionnaire and the reading task.

Tuckman (1978) discussing on the test-retest reliability approach for determining reliability says, one way to measure reliability is to give the same people test on more than one occasion and then compare each person's performance on both tests. In doing so, one actually wants to establish the extent to which the test or instrument in this case is measuring stable and enduring characteristics of the test taken. This particular study employed a similar approach. Data from the pilot study was analyzed and interpreted with reference to the research objectives. Using the results obtained, the researcher with the help of experts in school of education, Moi University made the necessary adjustments on the questionnaires, reading task and the observations. The research instruments were then deemed ready for the actual research study.

VII. Data analysis and presentation

Data analysis deals with the organization, interpretation and presentation of collected data; a postulate of how the data was analyzed (Oso and Onen, 2009). The data obtained was analyzed to determine how teachers help learners to make use of the available TBIs in the instruction of reading comprehension, to investigate the use of the available textbook illustrations in the teaching of reading comprehension and; to find out challenges faced by teachers of English in using textbook illustrations in the teaching of reading comprehension.

Study findings

There were several study findings which were reported based on the presentation of data from the questionnaires, observation and reading task. The following summary based on the objectives is made.

How the Teacher helps the Learners make use of the available TBIs to enhance Reading Comprehension

The teachers acknowledged that they help the learners to use TBIs when teaching reading comprehension passages. The findings from the teachers' questionnaire revealed that there are times when teachers do not help

learners make use of TBIs even in classes where the textbooks are available. This is in line with findings of a study carried out by Luvisia (2003) on instructional resources for teaching Kiswahili grammar and that there was minimum use of the available instructional resources in the teaching and learning of Kiswahili grammar in secondary schools.

Teachers should help learners make use of TBIs during reading comprehension lessons. Learner's way of understanding something new is to relate to something they know. This is an important principle of learning by relating the known to the unknown. Some teachers disagreed with the opinion that they relate the title of a passage to what they can see in the illustrations while other teachers agreed that they ask students to predict the message in a text from what they can see in the pictures. Learners should be involved in the learning process in various ways. Role-play, dramatization, language games, group discussions and competitions are some activities that can enhance the learning process. The analyzed data revealed that teachers do not help students in their class to form language games from the TBIs. Teachers agreed that students in their class dramatize what they can see in the TBIs during reading comprehension lessons. Teachers disagreed with the opinion that students in their class predict characters in a comprehension text from what they can see in the pictures. Teachers should use a variety of learning activities to help learners make use of TBIs during reading comprehension lessons.

Teachers agreed that students in their class discuss reading comprehension questions basing their argument on the pictures in the text. Teachers disagreed with the opinion that students in their class compare their predictions about a written text with the message in the pictures. Talking itself is a most important pre-reading activity, opportunities for conversation and discussion should be stimulated by the teacher to give the children an opportunity to extend their vocabulary and to practice the use of sentence structure. When a child starts to read, he will find it easier to recognize a word which is within his spoken vocabulary and sentence structures which are familiar to him are easier to read as well. Teachers should provide learners with opportunities to talk through debates, narrations and conversations. These can be generated from the TBIs.

Teachers agreed with the opinion that students in their class come up with topics for debate based on the illustrations in the textbook and that the teachers help students in their class to narrate stories in class in relation to the pictures in the text during reading comprehension lessons. Teachers disagreed with the opinion that they ask students to practice conversations in the TBIs. Comprehension questions should be formulated from TBIs. Learners should be given questions ranging from recall and comprehension to synthesis, analysis and evaluation. Teachers agreed that students in their class formulate comprehension questions based on the pictures in their textbooks.

Reading in the content areas involves the use of prior knowledge to connect what the students know to the new information being presented. It also requires an understanding that authors use patterns to organize their writing. When students are able to recognize these patterns, they can readily comprehend the text, especially if they use a note taking strategy to help them frame their thinking. Teachers agreed that they refer students to TBIs every time they are reading comprehension and the teachers use TBIs to create a lively reading comprehension lesson.

The learners should be guided in studying relevant passages, poems, plays, short stories and novels. Discussion gives opportunities to express views, hear the views of others and make discoveries. It discourages copying from each other but encourages sharing resources. The teachers should use the question and answer method to initiate discussion on the meaning of the content read. This is because the findings revealed that teachers help learners to discuss what they have seen in the pictures in a passage and the teachers also tell students to discuss titles of passages in relation to TBIs. Teachers also agreed that they ask students to discuss what they can see in the pictures before reading a comprehension passage.

An intensive reading activity should end in written work with individual learners answering questions in their exercise books and the teacher assisting where necessary. All written exercises must be marked promptly. Teachers ask students to write compositions from what they can see in the pictures but they do not ask students

to construct sentences from what they can see in the pictures. Teachers also ask students to form nouns from the TBIs. Children aren't going to spend their lives doing comprehension exercises which are simply a means to improving reading for meaning. Learners should be given practice in studying and examining texts in order to get the maximum out of them. Reading is a skill of use throughout the education system and after. Learners should be helped to make use of TBIs for other reasons other than just answering questions since none of the teachers disagreed with the opinion that they ask students to give meaning of words in relation to what they can see in the pictures.

Student's use of TBIs in Reading Comprehension

Responding to the questionnaires, the students stated that they use text book illustrations in reading comprehension lessons, note down and discuss what they can see in the pictures during reading comprehension lessons, relate the title of the text to what they can see in the pictures and predict the message in a comprehension from the pictures in the textbook. In case a picture has a conversation, the students practice the conversation in class, predict characters in a comprehension using illustrations in the textbook and discuss comprehension questions basing their argument on the illustrations. After reading a comprehension passage, students compare their predictions with the message in the passage, give meaning of words used in a passage in relation to the textbook illustrations, construct sentences from what they see in TBIs and write creative compositions from what they see in the pictures. However, students do not dramatize what they see in the pictures in the textbooks, do not form nouns and language games from the TBIs, do not hold narration sessions basing their stories on the pictures in the texts and do not use TBIs to practice language items on the blackboard.

Teachers and learners use of TBIs in language teaching from classroom observation

The researcher observed TBIs were used to help students to understand the message in a passage. This involved giving meaning of words used in a passage in relation to TBIs and answering comprehension questions. This high usage compared to the others could be associated with the examination oriented curriculum where teachers drill learners on how to answer exam questions and pass their examinations. TBIs were also used to stimulate interest. This involved attracting students' attention and creating a lively reading lesson. Creating interest fosters a conducive climate where learners' attention is attracted and this stimulated mental activity. By doing this, the teachers varied stimulus such that communication between the teacher and learners and learner-learner was enhanced making learning lively. When learners' attention was attracted and the lesson became lively, learners portrayed a better comprehension of the passage.

The researcher also observed that TBIs were used to encourage students' participation. This included holding discussions and predicting comprehension messages. This was important because it encouraged whole class participation and learners could make attempts to share their ideas with the others in class. TBIs were also used to provide medium for individual or group reports. This included constructing sentences from TBIs, practicing conversations and writing compositions. These uses of TBIs were seen to encourage active learner participation and enhanced learning.

The learners observed in this study used TBIs to help them understand the message in a passage and the teachers expected them to make use of TBIs to support their answers. This involved giving meaning of words and answering comprehension questions using TBIs. Learners used TBIs to make a classroom dynamic and relevant. This included relating titles of passages to illustrations. Learners also used TBIs to create a lively reading lesson. This stimulated their interest and heightened their curiosity to read. Generally, some learners made use of TBIs as observed during the reading comprehension lessons.

Learners responses towards the reading task

The data from the reading task was analyzed through the use of descriptive statistics to determine the use of TBIs and levels of comprehension during reading comprehension lessons. The results from the reading task showed that learners do not use TBIs effectively. This was also revealed by the responses from the teachers' and students' questionnaires. Learners and teachers should use TBIs effectively because they assist them in the

learning process. From the results, the learners would not recall and relate what was in the picture with the message in the comprehension passage.

Challenges Faced by Teachers of English in Using TBIs in the Instruction of Reading Comprehension

The findings from the classroom observation schedules and questionnaires revealed that heavy teaching load, exam oriented curriculum, overcrowded classes and limited time were the most serious challenges facing teachers of English in using TBIs for teaching reading comprehension. The analyzed data from the questionnaires and the classroom observation schedules revealed that teachers faced the challenge of unavailability of textbooks. Teachers also experience the challenge of exam oriented curriculum. Heavy teaching load is another challenge faced by teachers and also over-crowding of classes. In addition, teachers are faced with the challenge of heavy teaching load. It is however encouraging to note that some of the challenges that would be expected to hinder the use of TBIs in the teaching of reading comprehension such as irrelevant illustrations do not present serious problems as a large proportion of teachers indicated that this challenge was not serious.

As described in the previous section, some students' apparent reading problems may be problems of insufficient background knowledge (Carrell a, 1988). Where this is thought to be topic-related, it has been suggested that 'narrow reading' within the student's area of knowledge of interest may improve the situation (Carrell and Eisterhold, 1983). Similarly, where schema deficiencies are culture-specific, it could be useful to provide local texts or texts which are developed from the readers' own experiences.

Heads of schools should therefore not compel school teachers to concentrate on the examination oriented syllabus. Here coverage of the syllabus and the drilling of students to pass examinations are given more weight than imparting knowledge and acquisition of concepts and skills. This mode of teaching leaves little room for use of TBIs in the teaching and learning process. Wright (1989) states that pictures are very important to help students to retell experience, or understand something since they can represent place, objects and people. Teachers should try to use TBIs irrespective of the challenges they face, like heavy teaching load which may be attributed to the freezing of employment of teachers by the Teachers' Service Commission (TSC). The commission last posted graduate teachers in 1998. Since then, there has been marked shortage of teachers in schools which compels the few teachers to take up heavier teaching loads. Those employed through interviews between 1998 and 2010 on permanent basis have been replacing those who have left the profession through natural attrition.

This problem is also compounded by the HIV- AIDS scourge which has claimed the lives of a sizeable number of teachers. Kenya National Union of Teachers (KNUT) and Kenya Union of Post Primary Education (KUPPET) have called for the employment of more teachers. However, the current system of decentralized employment of teachers delegated to the schools' Board of Governors and education officers is inefficient, biased and full of corruption and nepotism. Due to its ineffectiveness, majority of schools are still understaffed. This leads to teachers' overload, a situation that indeed hampers the effective use of TBIs in the teaching and learning process. This coupled with the challenge of over-crowded classes are possible factors that contribute to the poor performance of English in schools.

Carrel (1988) lists numerous ways in which relevant Schemata may be constructed including lectures, visual aids, demonstrations and real life experiences, discussion, role play, text previewing and discussion. TBIs can be used for effective teaching of reading comprehension even with the challenges of overcrowded classes. Over-crowding of classes could be attributed to the government's policy of free secondary education and cost sharing. The government expects the parents to be responsible for upkeep of their children and boarding fee while it provides for teachers and pays the fee for day-schooling. Given the economic handicap of most Kenyans, the construction of more schools becomes difficult. Subsequently, the few existing schools are forced to over-enroll students. This leads to overcrowded classes which are an impediment to the teachers' effective use of TBIs.

Due to the freezing of employment of teachers by the government, majority of the schools are still understaffed which leads to teachers' overload as mentioned earlier in this study. The teaching load may lead to a problem of limited time on the side of the teacher especially time to prepare adequately to use textbook illustrations to teach reading comprehension. In order to teach English effectively, the teacher should select and prepare his or her lesson e.g reading comprehension lesson that incorporate a detailed literally discussion may not be accomplished in a single lesson as it needs more time for preceding reading or oral activities. The syllabus requires that Forms 1 and 2 should have 6 English lessons per week while form 3 and 4 should have 8 English lessons per week. This burden could be too much for teachers teaching in understaffed schools hence lack of time to prepare for and use TBIs.

Teaching of all subjects all over the world requires textbooks and a class textbook in particular for effective teaching and learning. Kafu (1976) states that textbooks are very essential media resources without which teaching and learning would be very difficult. The textbooks that are used normally have still pictures and illustrations. Failure to use TBIs in the instruction of reading comprehension in Secondary schools could be attributed to the unavailability of textbooks. This was indicated as a serious problem facing teachers in the use of TBIs in the instruction of reading comprehension hence most of the learners do not have enough resources for practice.

Kafu (1990) argues that without facilities and learning resources, education ceases to exist. The challenge of unavailability of textbooks arises probably due to the ignorance of school administrators who fail to include textbooks in their main school budget or overspend in co-curricular activities and the construction of physical facilities. This was least expected bearing in mind that English is a compulsory subject in Kenya's curriculum and that K.C.S.E tests the candidates ability to comprehend the input mainly the written word, their mastery of grammar and communication skills in their written work. However, English teachers are expected to advice the school administrators about the importance of textbooks in the teaching of English in general and specifically in teaching reading comprehension so that instructional materials may be budgeted for.

VIII. Conclusion

A number of conclusions based on the objectives of the study have been made. These are:

- There was minimal use of TBIs in the instruction of reading comprehension by both teachers and learners.
- Majority of teachers do not help the learners to make use of TBIs but they only emphasized on correctly answering the questions from the comprehension passage.
- Teachers do not use TBIs effectively due to a number of challenges like: heavy teaching load, exam oriented curriculum, overcrowded classes and limited time for preparation which were found to be serious challenges. Unavailability of textbooks and irrelevant TBIs were also indicated as challenges that teachers face.
- Some teachers refer students to TBIs every time they are reading a comprehension in order to create a lively reading comprehension lesson.
- Teachers tell students to discuss titles of passages in relation to TBIs.
- Teachers do not ask students to form language games from the TBIs during reading comprehension lessons.
- Teachers do not ask students to dramatize what they can see in the illustrations during reading comprehension lessons.
- Teachers ask students to construct sentences from what they can see in the pictures during reading comprehension lessons.
- Learners discuss comprehension questions basing their argument on the pictures in the text.
- Most teachers do not face the challenge of irrelevant illustrations when using TBIs during the instruction of reading comprehension.
- Very few teachers ask students to note what they can see in the TBIs during reading comprehension lessons.
- Students give meaning of words used in a passage in relation to the TBIs during reading comprehension lessons.

- Students discuss comprehension questions basing their argument on the TBIs.
- Students do not hold narration sessions basing their stories on the pictures in the textbook during reading comprehension lessons.
- Students do not form nouns from TBIs during reading comprehension lessons.
- Students write creative compositions from what they see in the pictures during reading comprehension lessons.
- During reading comprehension lessons, students predict the message in the passage from the TBIs.

Recommendations

- The Kenyan government through the ministry of education has taken charge of provision of textbooks in all public secondary schools in the republic. However, it should make a follow up in all public secondary schools to ensure that funds allocated for the purchase of textbooks are not diverted to other school activities or misappropriated. English being a compulsory subject means that there is a need for provision of instructional materials especially those that the teachers cannot do without like the textbooks.
- The government through the Ministry of Education should re-introduce a Kenya schools equipment scheme (K.S.E.S). This will ensure that textbooks can be adequately supplied to schools to enable teachers make use of TBIs during reading comprehension lessons.
- The government should reconsider employing more teachers to schools to help ease the teachers' teaching loads. This will ensure that teachers have ample time to prepare to teach reading comprehension lessons using TBIs.
- Head teachers should encourage teachers to use media resources in their lessons, in particular the use of TBIs during reading comprehension lessons.
- Teachers who are enterprising in the effective use of TBIs in teaching should be identified and rewarded accordingly. Such teachers can be selected to facilitate in media education forums.
- To reduce the challenge of overcrowded classes, it is recommended therefore, that parents organize for harambees and solicit money from well-wishers and Non- Governmental Organizations (NGO's) to help them put up more classes to reduce the congestion in classes. This could help teachers to have a manageable number of learners that can be effectively assisted to make use of TBIs during reading comprehension lessons.
- Head teachers should purchase more textbooks bearing in mind that English is a compulsory subject in Kenya's curriculum. The head teacher should therefore work closely with subject teachers in determining in what quantity these should be acquired. The subject teachers should also check the textbooks to ensure that they meet the required standards and that they have illustrations that can be used during the instruction of reading comprehension.
- The district secondary school Quality Assurance should make regular inspection, advice and motivate the teachers to make use of media resources in teaching the subject. Particularly, the quality assurance should put emphasis on the use of TBIs during the instruction of reading comprehension.
- The Quality Assurance should organize seminars, symposia and workshops for teachers of English. These forums will enable English teachers to share views and experiences as regards use of instructional materials in particular the use of TBIs in the instruction of reading comprehension.
- The course book designers should ensure that the books to be used for instruction of reading have relevant illustrations to support the instructional interaction between the teacher and the student to achieve the lesson objectives. They should make sure that illustrations in the textbooks promote understanding and assist in assessment of the content covered.
- The Kenya Institute of Education (KIE) should guide the teacher on how to interpret and implement the English syllabus through use of the available TBIs and guide on assessment techniques that are appropriate for reading comprehension. This should be geared towards the achievement of the specified objectives for teaching reading comprehension.
- Teachers should be encouraged to use TBIs effectively in reading comprehension lessons. They should be informed that it is not wise to judge that visual media are only playful technique and time consuming

because the effectiveness of visual media in particular TBIs for language teaching has been acknowledged. Teachers should endeavor to use TBIs and avoid depending on lecture, question and answer and chalk and talk methods of teaching English language.

- Teachers should stop using their current drilling mode of teaching and also allow students to acquire concepts and skills practically through the manipulation of TBIs during the instruction of reading comprehension.
- Learning should be learner-centred where learners are given opportunity to use TBIs during instruction and the teachers aim should always be to make students understand concepts and delivering massive information. As a result, the teachers will find instructional materials to be the best alternative to doing this.

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