PDF - EFFECTS OF TWO MODES OF ADVANCE ORGANIZERS AND COGNITIVE STYLE ON SECONDARY STUDENTS' ACHIEVEMENT IN EPISTLES IN EBONYI STATE, NIGERIA - researchcub.info Abstract

This study was carried out to investigate the effects of two modes of advance organizers and cognitive style on achievement of seniorsecondary school students in Christian Religious Knowledge (CRK). It also investigated the influence of gender and location on achievement of SeniorSecondary II (SS II) CRK students. Seven research questions and seven nullhypotheses were formulated to guide the study. The study adopted a pretest, posttest non-randomized control group design. Two hundred and sixty sevenstudents from six secondary schools in Abakaliki Education Zone of Ebonyi Statewere assigned to experimental and control groups. The instruments used tocollect data were Christian Religious Knowledge Achievement Test (CRKAT) and Group Embedded Figures Test (GEFT). An internal consistency reliabilityestimate of 0.72 was established for the objective items of CRKAT usingKudar-Richardson formula 20. An inter-rater reliability coefficient of 0.90 was obtained for the essay items of CRKAT. Data collected were analyzed using meanand standard deviations and Analysis of Covariance (ANCOVA). The major findingsof the study among others include the following: students taught withaudio-visual organizer had better achievement mean scores in CRK than studentstaught with written organizer who in turn had better mean scores than thestudents taught without organizer, although the differences were not significant. There is no significant difference in the mean achievement scoresof field dependent and field independent students. There is no significant difference in the mean achievement scores of male and female students. There issignificant interaction effect of mode and location on students' achievement in CRK. The educational implications of these results include: that theachievement of senior secondary school students in CRK is not determined by the use of advance organizers in teaching the subject. As a result, either of the advance organizers can be used to enhance learning. Field dependent and field independent cognitive styles do not influence the learning of CRK as in science subjects and mathematics. It is recommended that the use of audio-visual, and written advance organizers especially in urbanschools should be encouraged.

CHAPTER ONE INTRODUCTION

Background of the Study

Religion is a system of belief in and worship of one or more gods. Christianreligion is the revelation of God in the person of Jesus Christ (Fawole,1981). Christian religious knowledge (CRK) is the understanding of Christians about their belief. CRK has been in the curriculum of educationalinstitutions in Nigeria since the introduction of formal education. Okafor(1988) states that education without religion, which Christian religion is partof, helps to create a vacuum in the life of citizens. It leaves the youngfrustrated and confused about

life when they are not provided with the ultimateand transcendental values to guide their lives. CRK is an agent of goodmorality which produces love, justice, truthfulness, fair play, and good governmentthat leads to nation building (Njoku, 2008 & Agha, 1995). Christianreligious laws are made to guide and strengthen human conduct. They leadpeople to the fear of God and constituted authorities in the society. CRKguides students in such a way that they can attain intellectual and moralperfection and discipline themselves both mentally and morally to face theirdaily and future challenges. According to Obilo (1995), CRK contains richvariety of concepts that enhance better and meaningful life. It cultivates the mind and provides moral consciousness and commitment to one's duty towardsone's neighbours and society; which Nigeria and the world at large needmost.

Notwithstanding the importance of this subject to human race, students performbelow average in the subject in external examinations. The West African SeniorSchool Certificate Examination (WASSCE) Chief Examiners' Reports show that theperformance of students from 1998 – 2008 in CRK is below average. Thereports note candidates' inadequate ..knowledge of the subject matter withparticular reference to Section C of the question paper entitled: 'Themes fromselected epistles. Epistles are letters written by some of the apostlesof Jesus Christ to individuals or churches to address some of their religiousproblems as they arose. The poor achievement and inadequate knowledge of thesubject matter can be attributed to many variables. These include teachers'method of teaching, media used and the abstract nature of the themes.

Most of the time, teachers of CRK use lecture and story telling methods (Eze,1999), which are teacher-centered. These methods seem to make students passive participants in the teaching—learning situations. According to Mkpa (1987), the lecture method does not allow teachers to adapt learning to the level of students' understanding. Consequently, the use of these methods toteach abstract themes such as justification by faith, faith as a condition for justification, faith and work, resurrection, law and grace etc makes these aspects of CRK difficult to students. There is every need then to seekways of making the teaching of these themes more effective, interesting and motivating in order to enhance students' achievement.

For effective teaching and learning to take place, learners have to be actively involved. This can be done by arousing and arresting the attention and interest of learners and creating in the learner a genuine interest and desire learn. Hass and Packer (1965) cited in Eze (1999) noted that attention as a rrested by preparing the learner to be ready to learn, making learning pleasant and interesting and helping the learner to assimilate what has been learned.

One of the ways of preparing learners to learn is by the use of advanceorganizers. Advance organizer is a model of teaching (Joyce and Weil,1972). According to Chauhan (1979), a model of teaching is aninstructional design which creates a particular

environmental situation whichcauses the students to interact in such a way that a specific change occurs intheir behaviours. It is developed to help a teacher to improve hiscapacity to reach more pupils, and create a richer and more diverse environment for them.

Advance organizer was first developed by David Ausubel in 1960. His aimwas to enhance learning and retention of verbal materials. They give thelearner a general overview of the more detailed material to be l0earned. Theyconsist of introductory materials that are more abstracted, general, and inclusive than the learning task itself. They activate a generalorganization from the learner's existing knowledge that would not have normally been used to assimilate the new material. They are tools or techniquesthat provide identification and classification along with possible relationships or connections among ideas, concepts, and issues. They are useful to the learner when given in advance of instruction and often serve asclues to ideas that the instructor plans to introduce, (Callison. retrieved,2000). They have positive influence on the learner's ability to focus on newinformation.

Advance organizer can be regarded as instructional media presented to thetarget audience before the main learning and material to enhance theunderstanding of the material to be learned.

The following types of advance organizers, among others, exist according to Clawson and Barns (1973), Marzano, Debra, Pickering, Pollock and MCREL (2001), and Mayer (2003) graphic, narrative, expository, skimming, audio-visual andwritten organizers.

Graphic organizers take the form of pictographs, descriptivepatterns, and concept patterns. It combines the linguistic and non-linguisticmodes of information storage. Narrative advance organizers presentnew information in a story format to students. Skimming advanceorganizers look over the new material and gain a basic overview. Comparative advance organizers discriminate a concept from other closelyrelated ones. Comparative advance organizers allow you to easily see the similarities and differences in a set of related ideas. It provides more specific model closer to that, which is already familiar and very similar toconcepts just mastered. While expository advance organizers describe indetail what the new content will look like, expository advance organizers provide general model for introduction of new facts or ideas, but broad enoughto move the learner up a notch or so on the complexities of the material to belearned.

Audio-visual advance organizers synchronize pictures with wordsin presenting new content. Audio-visual organizers appeal to the sensesof hearing and seeing. This type of organizers creates room for the students tosee and hear the learning content. Written advance organizers present newcontent in written form. This type of organizers appeals only to the sense ofseeing. Students read the learning content. To the knowledge of theresearcher, much has not been done on audio-visual and written organizers, hencethe need for this study. It is necessary then to determine the effects ofadvance organizers (audio-visual and written) on the achievement of students in Epistle.

Generally, learning demands certain qualities, which have to do with theability to process abstract materials for learners who are to benefit fromthem. One of those qualities is cognitive style. Cognitive style is a term used n cognitive psychology to describe the way individuals think, process, perceive and remember information, or their preferred approach to using suchinformation to solving problem, (Wikipedia .org, 2008). Cognitive styleaccording to Gane (1985), is the skill by which the learner regulates hisinternal processes of attaining, learning, remembering and thinking. Sincethemes from selected epistles concern problem solving, in the affective domain, it may be necessary to find out what type of cognitive styles help students tounderstand these themes better.

There are different types of cognitive styles. The following types ofcognitive styles exist: cognitive complexity/simplicity (Kelly, 1955); filedindependent/filed dependent (Witkin 1962); impulsive/reflective (Kagan, 1965); Divergent/convergent (Hudson, 1966); Global/analytical (Kirby, 1988). Hammon(1989) indicates that the most reported cognitive styles are; fielddependence/independence, reflective/impulsive, leveling/sharpening andrigidity/flexibility. However, there is no scientific proof that one typeof cognitive style is academically superior to others (Dunn, and Dunn, 1992). Of all the dimensions of cognitive styles, field dependence/independence hasgenerated considerable number of research (Saracho, 1997), but nothing appears to have been done in Epistle.

Field dependence-independence cognitive style was proposed by Witkin(1962). Field dependency represents the tendency to perceive and adhereto an existing externally imposed framework, while field independencyrepresents the tendency to restructure perceived information into a differentframework (McGee, 1979).

There are research reports that increased learning gains can beachieved when instructional exercise is designed with students' cognitivestyles in mind (Dunn, Bruno, Sklar, and Beaudry, 1990; Gordon, 1993; William,1994). Field dependent—independent cognitive style is useful in this studybecause it has important implications for an individual's cognitive behaviourand his or her interpersonal behaviour, two domains of learning emphasized byCRK. Therefore, there is the need to find out how fielddependence-independence cognitive style affects students' achievements inthemes from selected epistles, which by their nature may require cognitiverestructuring.

Findings of research studies which demonstrated differences due to gender in various academic achievements have become popularly and generally accepted by scholars. According to Itsuoko (1989), girls and women tend to score higher on verbal tests and always do better than boys and men on coding tests, which call for short memory, speed and draftiness. The males on the other hand, invariably achieve higher scores on arithmetic, blocks design, and the visual spatial tests. To Hutt (1972), although there is little evidence that males and females differ in average intelligence, the constitutions of intelligence in the two sexes are far from similar. Bacchus (2004) in hisanalysis of man and woman believed that

woman's tendencies are towards theemotional and psychic, while man's are towards intellectualism and materialism. One's gender may determine choice of course of study. It will also determineperformance in any given subject (Nwobodo, cited in Madueme 2002). How genderwill influence achievement in CRK, with particular reference to Epistles whichis more emotional and psychic than intellectual, has been determined this study.

It is believed that environment influences the individual. This is applicable to teaching and learning environment. Location of a school maycontribute to the achievement of the students. It is believed that thoseschools in urban areas are likely to have more resources, human and material, than those schools in rural areas. These may make students in schools in urbanareas to achieve better than those in rural areas. This study determined whether the achievement of students in Epistles depend on location of school. It is against this background that this study was set to find out how two modes of advance organizers, cognitive style, gender and location will affects tudents' achievement in CRK.

Statement of the Problem

The West African Senior School Certificate Examination (WASSCE) ChiefExaminers' Reports show that the achievement of students from 1998-2008 insection C –Themes from selected epistles is below average. The poor achievementmight be attributed to teachers' method of teaching the subject. It is believed that advance organizers can improve students' achievement in ChristianReligious Knowledge (CRK) generally and themes from selected epistles inparticular.

Teaching methods in use by CRK teachers no doubt contribute tothe poor achievement of students. It is believed that if teachers preparestudents and arouse their consciousness before actually presenting theirlesson, students' achievement in CRK, especially in section C that containsabstract materials may improve. To the best of knowledge of the researcher, nostudy appears to have been done on the effect of advance organizers onachievement in Epistles. Although studies such as that of lorchugh (2004) haveshown the superiority of field independent cognitive style over the fielddependent cognitive styles in science subjects, no study appears to have beendone to determine the influence of cognitive style on achievement in Epistles.

The problem of the study put in question form is: what are theeffects of two modes of advanced organizers (audio-visual and written) and cognitive style on students' achievement in Epistles?

Purpose of the Study

The aim of this study is to determine the effects of two modesof advance organizers (audiovisual, written) and cognitive style on students'achievement in Epistles.

Specifically, the study sought to:

1. findout the effect of two modes of advance organizers on the mean achievements cores of the students.

- 2. determine the influence of cognitive styles on the mean achievement scores of the students.
- 3. ascertainthe influence of gender on the mean achievement scores of the students.
- 4. determine the influence of location on the mean achievement scores of the students.
- 5. determine the interaction effect of mode of advance organizer presentation and cognitive style on the mean achievement scores of the students.
- 6. findout the interaction effect of mode of advance organizer presentation and genderon mean achievement scores of the students.
- 7. determine the interaction effect of mode of advance organizer presentation and location on the mean achievement scores of the students.

Significance of the Study

Christian religious knowledge develops man morally, spiritually, socially andacademically. It is therefore necessary to find means of making its instructionmore effective, interesting and motivating for the benefit of humankind and fornation building. The findings of the study therefore may help teachers toknow the type of organizers that will be effective in Epistlesinstruction. The teacher will then be better informed on the selection ofappropriate techniques for the facilitation of Epistles instruction

The findings of the study may be of great importance to textbook authors and publishers of audio-visual instructional materials. The results may provide guidelines for presenting advance organizers in text and audio-visual materials.

Curriculum development centres may benefit greatly from the findings of thisstudy. The findings may help them to plan suitable curriculum and instructionthat will enhance students' understanding of Epistles. Furthermore, thefindings will help them create and recommend different modes of teaching andlearning of Epistles with respect to the individual differences of thelearners.

This study has touched such variables as gender and location and theirinfluence on achievement in Epistles. The findings of this study maylikely generate researches, conferences and seminars in these areas for theimprovement of Epistles instruction.

Finally, the results of this study may provide the basis for further study on the use of advance organizers and cognitive style in learning of Epistles insecondary schools.

Scope of the Study

Thisstudy is centred on the effect of two modes of advance organizers and cognitivestyles on students' achievement in Epistles. Senior Secondary II (SS II)students in Abakaliki Education Zone of Ebonyi State constituted the sample.

The study determined students' achievement in "themes from selected epistles", based on the West African Senior School Certificate Examination (WASSCE) curriculum. The topics covered are: Justification by faith: meaning and fruits of justification (Romans 3:21-24, 10:1-13) Law and Grace: The purpose of law and the

significance of law and grace (Romans 4:13-25, 5: 10 – 14, 18-21, Galatians 3:10-14).

Research Questions

The following research questions guided the study:

- 1. What are theeffects of audio-visual and written organizers on students' mean achievementscores in Epistles?
- 2. What is theinfluence of cognitive style on students' mean achievement scoresin Epistles?
- 3. What is theinfluence of gender on students' mean achievement scores in Epistles?
- 4. To whatextent does location influence students' mean achievement scores in Epistles?
- 5. How does mode of advance organizer presentation and cognitive style interact to influencestudents' mean achievement scores in Epistles?
- 6. What is theinteraction effect of mode of advance organizer presentation and gender onstudent' mean achievement scores in Epistles?
- 7. What is theinteraction effect of mode of advance organizer presentation and location onstudents' mean achievement scores in Epistles?

Hypotheses

These null hypotheses were tested at probability level of 0.05.

- : There is no significant difference between the meanachievement scores of students when audio-visual and written organizers and noorganizers are used in Epistles instruction.
- : There is no significant difference between the mean achievement scores of students who have field dependent and field independent cognitive styles.
- : There is no significant difference between the mean achievement scores of male and female students in Epistles.
- : There is no significant difference betweenthe mean achievement scores of students in urban and rural schools in Epistles.
- :Mode of advance organizerpresentation and cognitive style do not interact significantly to affectstudents' mean achievement scores in Epistles
- :The interaction of mode ofadvance organizer presentation and gender do not significantly affect students'mean achievement scores in Epistles.
- :The interaction of mode ofadvance organizer presentation and location do not significantly affectstudents' mean achievement scores in Epistles.

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