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A STUDY OF DIFFERENCES INLEARNING STYLES OF SENIOR SECONDARY SCHOOL STUDENTS IN NIGERIA

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ABSTRACT

This is a descriptive research work aimed at identifying differentlearning styles of senior secondary school students. A total of 200 respondents were sampled for the study, out of which 100 were males and 100 were females randomly selected from fivedifferent schools. In each of the schools, total of 40 students were sampled comprising equal number of males and females respectively. The results of the study found that students are having different styles of learning

Key words: learning styles, secondary school students.

1.INTRODUCTION

Education is the process of imparting knowledge, attitudes, skills, and judgment. Education has been defined in so many ways by different writers.

Education could be seen in other perspectives as a type of learning within which the information, skills, and habits of teaching thoughts, knowledge, and ideas of individuals is transferred from one generations to the other through technical means. Thus, education is the key in individual development and overall wellbeing. It paves the way to become useful citizen to the society who will be able to contribute in a meaningful way. The education facilitates the relationships of the individual in day to day life. The learning styles adopted by students in Nigeria institution has being playing a very significant response toward their academic motivation and development in all perspectives of their learning by having means to read, write and comprehend all their activities been carried out in their respective institution of learning, therefore, the adaptation of learning styles is very important.

Kolb^[1]describes education as "the process whereby knowledge is created through the transformation of experience". Kolb further stated that knowledge is the means of knowledge and growth and it is constructed on these proposals:

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- i) Knowledge refers to repeated learning. Knowledge is best guided by some means which presents the learners' principles and thoughts about a subject for them to be put through by testing, and integrating them with better organized thoughts.
- ii) Academic achievement appears from the individual performance between an individual and his surroundings. According to Piaget's, teaching takes place through matching of the interactive means of understanding new practices into new and present ideas by accepting the prevailing ideas to form new information. Knowledge is the procedure of generating information.

The term learning styles means variety of challenging and contesting concepts that is seen as being responsible for variations in person's knowledge. These concepts suggest that individuals can be categorized according to their 'style' of knowledge, although different theories may represent different opinions on how the styles should be distinct and categorized. A collective idea is that persons differ in how they taught^{[2],[3],[4]}, explain learners study in different techniques e.g. sighting, listening, imitating performing, thinking rationally, remembering, picturing, sketching methods and structure of representations. Learning style is viewed by Kolb^[1]as "the methods we prefer to take up and add in new information". Many persons have diverse methods of acquiring knowledge, though, those ways were neither worthy or debauched". Kolb has recommended four dissimilar learning styles: Accommodator, Divergers, Assimilator and Convergers.

- 1. Active learner refers to people that favor real experience and lively testing on different categories involved in the learning process (an individual that prefer to see material from emotion and practice it by performance). Proper learning conditions entail individual with the help of learning style wishing to collaborate with the rest to get tasks completed. Established objectives and practical assignment to check dissimilar methods in the implementation of plan according to Kolb^[1]. They answer the "what if" of education.
- 2. Diverger means individual that favors real facing and thoughtful opinion about knowledge extent (person that favors to seeevidence from emotion and study about the dispensation of knowledge by study). Official learning situations refers to persons with the Divergent style like better to function in individuals, listen with an unbiased mind and getting customized advice. They answer the "why" of education.
- 3. Converger defines an individual that favors theoretical formulations and Dynamic Research (individual that will like to understand information by rationality and responsibility). In prescribed learning situation, person with this method favor to test with new thoughts, simulation, workroom tasks, and realistic presentations. They answer the "how" of education.
- 4. Active learners denotes to an individual that favors theoretical formulations and deep thoughts of learning scope (individual that wishes to absorb through rational and seeing/hearing). In proper learning conditions, persons with this method desire understandings, talks, discovering logical models, and devoting time to reason things through. They answer the "what" of education. Studies have examined persons' learning styles. Loo^[5], precisely see as a pointer of learning style, students of different sexes are conscious of diverse learning styles. LearningStyleIndex tool (LSI), Version 3 of learning style index developed by Kolb is recognized as good instrument in determining an individual's comprehension of new ideas^[1].

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Learning styles was explained as a regular means of operation which reveals the fundamental reasons of knowledge conduct^[9]. These are *visual* learning styles, auditory learning styles and kinesthetic learning styles. Previous researches indicated that learners, knowledgepresentation could be better when proper instructional method is considered in evolving instructional process^[6].

Consensus of opinion have indicated that the way in which people select to method a learning situation effect onsuccess of instructional outcome. Wherelearning style has been emphasizing on a massive amount of study, by practiced based investigation in the region. There is a diversity of meanings, speculative suggestions, replicas, explanations and actions of the concept. This is regarded as natural result of wide experimental study and is likely to continue developing as idea which shows valuable in getting familiar with such vital and usual endeavor in passing instruction. Utilizing awareness in learning style in any learning environment encourages more operational knowledge and hence better academic attainment. We can never pretend any longer that if there are no satisfactory response to queries people might not be serious in creating conducive environment for learning.

The issue is how can the learner's progress be operated and succeed? There is a solid instinctive appeal with regard to concepts which teachers, program inventors and educational psychologists should commit more emphasis to the learning styles of students with the view to identify, motivate to reproduce by planning instructional and educational support upon them. By so doing, students will be encouraged to study and able to identify their challenges. Conversely, teachers can answer to individual's stronghold and difficulties, then, the degree of withholding and attainment in prescribed plans will and provide the required skill in learning.

Sternberg^[7], suggested that techniques are part of socialized aspects proposing that they can be to a greater extent. Hence, students' information about learning techniques favorite will assist maximally inimproving their cognitive aptitudes and learning talents in deriving the highest benefits in giving instruction. In conclusion, Sternberg^[7] held that better consciousness of learning favorites and techniques assist tutors to be more adaptive in their approach and make use of comprehensive variety of classroom approaches. Learning objective is not meant to compare instructional style to student likings, but rather to assist students enhance their abilities and aptitudes in acquiring good knowledge in both favored and less favored methods of getting education (meta-learning), therefore, evolving active and enduring style, students who can observe their learning approaches and appraise their results or success. Learning is a necessary notion of learning style. Jonassen and Grabowski^[8], explain knowledge acquisition as a process of transformation from the previous practices. They further differentiated between learning as a creation which clarifies the final outcome of the previous practices. Learning is a procedure that stresses on the occurrences while performing an activity with the view to get a desired outcome. Learning also acts as a task which stresses certain grave features of knowledge, such as incentive, preservation, and transmissionwhich makes social modifications in human learning conceivable. The assertion made above clearly indicates the characteristics of intellectual, social, learning technique termed as the features of mental, emotional, and psychosocial conducts which function as moderately steady pointers to how individuals relate, see, and react to educational surroundings^[9].

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Hartley^[10] opined that learning technique as a reliable means of reaction by learners in applying motivations in the framework of learning. A learning technique is the favored method, by which learners want to control and address difficulties, reasons or gain in instructional condition^[10].

Additionally, Idea of learning techniques applied in order to define individual variations in the manner persons acquires knowledge. Everyone has a distinctive method of engage and approaches practical application of activities and acquiring knowledge. Several studies in various fields adopted the application of learning style concept which has variety of methods to classify learning styles. No solely recognized technique presently exists, but instead numerous possible measures and groupings are in use. Most of these measures and groupings look alike and put emphasis on desires within their surroundings, practical processes, character and disposition, and/or intellectual techniques. Nonexistence of a theoretical background for learningtechniques theory and assessment has become public and dominant disapproved features in the area.

It is most probable that intellectual technique at least could be viewed as an important element of learning technique. Hartley^[10] offers these explanations: intellectual styles are the methods in which diverse entities naturally confront different intellectual assignments.

Learning style is also as a regular mode of performance that reveals the fundamentalreasons of learning behavior Keefe^[9]. There are often so many learning styles such visual learning styles, auditory learning styles and kinesthetic learning styles. Learning style is a feature that indicates how a learner learns gets knowledge and how he wants it. It is an instructionalmeans which will inform the cognitive context and content of acquiring knowledge. Previous students' knowledge sighted that student learning performance could have been better if good learning style scope is keen onthought when rising any instructional procedure^[6].

Present is universalreceiptso as to the way in which personsdecide total ending withknowledgecircumstanceshave acrash on presentation and attainment of knowledge outcome. Possibly knowledgemethod has been the center of such a hugefigure of researches and practitioner-based study region, presentlivediversity of definition, hypothetical proposition, model, interpretation and events of the build. To a number of certain levels, it can be careful a usual result of wide experiential studies and is to be predictable by means of continuity in rising concepts which provehelpful in ahead understanding of such an important and current effort in knowledge.

By means ofconscious learning style within the educational background itpromotesadditional and effective learning and hence enhanced academic attainment. How we assume any longer that we are serious about creating aconducive learning environment, is that we have no satisfactory response to the questions, on what model of learning do we operate with and how do weget better practice and that of our students? present is a physically powerful in the thought that instructor, routedesigner and instructive psychologists be supposed to give regularnotice to student's knowledgestyle- by assessing them, andhopeful students to

Reproduce on them and through giving themeducation and knowledgeinterventionapproximately to them. At the time this activity is completed, learners resolve to become more aggravated to study by knowing meaningful their areas of strength andweakness. In turn, teachers can react to student's strengths and weaknesses, then

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student's attainment rates in official programs will probable to go up and knowledge to study skills will be given for lifelongknowledge.

Sternberg^[7] future that styles of learning has somecomponentswhich socialized, individual and can be changed. Learner'sinformation of their learning styles can assist them build up their meta-cognition and learning skills and abilities to the maximum. Thustheir learning. In précis, Sternberg^[7] heldbetterconsciousness of learning styles aid stators to be extra adjustable in their instructionaltechnique and to use variety classroom teaching techniques. The motive is not compare teaching style to student preference, but to also toassist the students toput together their skills and capacities to study well in both preferred and less preferred styles of learning (meta-learning).

Thus, byincreasing the effectiveness of life-long learners who can check their learning strategy and assess their outcomes or achievements of students, Jonassen and Grabowski^[8] saw the alteration in behavior as a result of acquiredknowledge. However, they went further to differentiate amongknowledge as the means which explainedconclusion and result of the knowledgepractice; education as the procedure that emphasize what occursall during studyknowledge in obtaining knowledgecreation or result; and knowledge as purpose that highlights key aspect of life, like incentive, preservation, and move that makes modification of conducting persons learning behavior, learning styles are described as the features of cognitive, effectual, and psychosocial domains that serve up as comparatively stable indicators of how individuals speak about, distinguish, interrelate by means of, and respond to the knowledge situations. Keef^[9] and Hartley^[10] defined knowledge style as it is a learner's reliable means of answering to by stimuli in the background of knowledge. A knowledgemethod is a special form, from side to side which an individual scholar likes to understandlearning, resolved ifficulties, by reasoning or simply spread in an educational state^[11].

Idea of educationis applied to explainpersondifference in s technique which people learn. Everyindividual has acharacteristic or ways to process knowledge and information.

Perplexing studies in several ways is arequest of learning style hypothesis has begat the procedures used to classify the learning styles. There is No any present existing but however, several potential scales and classifications are subsequently being used. Majority of the tools are classified more alike and focus on ecological preference, by using sensory modalities, character, andreasoning styles and absence of a theoretical structure for learning style hypothesis and dimension is themostordinary problem in this region

Cognitive style-at its very least- can be considered as one of theimportantpart of learning style. Hartley^[10]stated that learning style is a cognitive method which provide ways in which different personscan respond in dissimilar cognitive on everyday jobs.

2. OBJECTIVE

To identify differences in learning Styles of Senior Secondary Students in Nigeria

.3. HYPOTHESIS

There is significant difference in the learning style of senior secondary school students.

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4. METHODOLOGY

The present study is descriptive in nature, which research aims to accurately and systematically describing a population, situation or phenomenon. Data for the study was collected from senior secondary school students by randomly selecting the sampled population.

4. 1SAMPLE

The present study used sample of two hundred (100 male and 100 female) students drawn from (5) senior secondary schools. Both male and female students are considered in this study. Simple random sampling technique was used to select twenty (20) male and (20) female students from each of the five schools under study making a total of two hundred (200) students. Care has been taken to pick 20 males and 20 females from each school.

TOOL: The Index of Learning Style (ILS) is developed by Richard M. Felder and Barbara A. Solomon (1994), was used in the present study

STATISTICAL TECHNIQUES: Frequency analysiswas used to determine the response and percentage scores of each category of student's response.

5. RESULTS

Table 1: The table below shows the classification of students on the basis of their categories of learning style.

Category	Activist-Reflector		Sensing-Intuitive		Visual-Verbal		Sequential-Global	
	Activist	Reflector	Sensing	Intuitive	Visual	Verbal	Sequential	Global
Frequency	177	23	102	98	56	144	191	9
Percent	88.5	11,5	51.0	49	28	72	95.5	4.5

Table above shows the frequency of the following categories of learning styles and their percentages. Activist-Reflector, Sensing-Intuitive, Visual-Verbal and Sequential-Global, 177-23,102-98, 56-144, 191-9, and the following percentages 88.5-11.5, 51.0-49, 28-72 and 95.5-4.5. From the above distribution, it shows students interests in various learning styles; Activist, Sensing, verbal, and sequential substantially differ from each other.

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Table 2: Categories of learning styles

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	Activist-Reflector		Sensing-Intuitive		Visual-Verbal		Sequential-Global	
	Frequency	Percent	Frequency	percent	Frequency	Percent	frequency	percent
Mild	87	43	169	84.5	161	80.5	45	22.5
Moderate	80	40	31	15.5	37	18.5	134	67.0
Strong	33	16.5	-	-	2	1	21	10.5
Total	200	100	200	100	200	100	200	100

Table above shows the preferences of students in different categories of learning styles into mild, moderate and strong. Activist-Reflector, Sensing-Intuitive, Visual-Verbal and sequential-Global into frequencies and percentages of 87-43, 80-40, 33-16.5 for Activist-Reflector, 169-84.5, 31-15.5 for Sensing-Intuitive, 161-80.5, 37-18.5, 2-1 for visual-verbal and 45-22.5, 134-67.0 and 21-10.5 for sequential and global. From the above table students have high preferences on sensing-intuitive with 169-84.5, 31-15.5 and visual-verbal with 161-80.5, 37-18.5, 2-1 respectively. This further shows the differences in the learning styles of students.

CONCLUSION

The study was carried out to identify the learning styles of senior secondary school students in Nigeria. The findings revealed that, students have high interest in learning styles in the category of Activist, Sensing, verbal, and sequential. Furthermore, the results also indicated that students have high preferences in sensing-intuitive and visual-verbal respectively, thereby meaning that thereis significant difference between learning styles adopted by senior secondary school students in Nigeria.

REFERENCE

- [1] Kolb, D. A. (1984). Experimental learning: Experience as the source of learning and development. Englewood Cliffs, New Jersey: Prentice Hall. (Retrieved May 18, 2015, from http://www.crit.unmich.edu/ occ10.html).
- [2] Coffield, F., Moseley, D., Hall, E., and Ecclestone, K. (2004). Learning styles and pedagogy in post-16 learning: systematic and critical review. Retrieved September 2015 from https://en.wikipedia.org/wiki/Learning_styles.
- [3] Ibe, H. N. (2012). Effects of Teaching Methods and study habits on Senor Secondary School Students Performances in Biology in Imo State. A Ph.D Dissertation, Imo State University, Owerri
- [4] Afurobi, A. O. (2011). Comparative Effects of Three Techniques of Instruction in Fostering Learning among Slow Learners. Unpublished Ph.D Dissertation Abia State University,
- [5] Loo, R. (2002). The distribution of learning styles and types for hard and soft business majors. Educational Psychological, 22(3):349-360

Vol. No.08, Issue No. 10, October 2020

www.ijates.com

ISSN 2348 - 7550

- [6] Graf, S., Liu T. C., &Kinshuk, O. (2010). Analysis of learner's navigational behavior and their learning styles in an online course. *Journal of Computer Assisted Learning*, 26(2), 116-131.
- [7] Sternberg, R. J. (1997). *Thinking styles*. Cambridge, UK: Cambridge University Press.
- [8] Jonassen, D. H., & Grabowski, B. L. (1993). *Handbook of individual differences, learning and instruction*. Mahwah, NJ: Erlbaum. 61
- [9] Keefe, J. W. (1987). *Learning styles: Theory and practice*. Reston, VA: National Association of Secondary School Principals.
- [10] Hartley, J. (1998). Learning and studying: A research perspective. London: Routledge.
- [11] Allinson, J., & Hayes, C. (1996). The cognitive style index: a measure of intuition-analysis for organizational research. *Journal of Management Studies*, 33, 119-135.