

IMPACT OF ENVIRONMENTAL FACTORS ON STUDENTS' ACADEMIC PERFORMANCE IN SOME SELECTED SECONDARY SCHOOLS IN ADO-EKITI

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Abstract

The study examined the impact of environmental factors on academic performance of students in some selected secondary schools in Ado-Ekiti. This study employed descriptive research design of the survey type. The population consisted of SS 2 students in all public secondary schools across Ado Local Government Area of Ekiti State. A sample of 150 students was drawn from 10 secondary schools across the local government. Purposive sampling technique was employed to select 15 students from each school. A self-constructed questionnaire was used to elicit relevant data for the study. The instrument was validated by experts in Social Studies. It was also subjected to reliability test through test re-test method that yielded 0.73 coefficients. Data collected were analyzed using inferential statistics of students't-test analysis. All hypotheses were tested at 0.05 level of significance. The study revealed that there is a significant relationship between home environment, school environment, parents and family size on the academic performance of students. Based on the findings it was recommended that students' homes should give room to enhance students reading ability, school environment should be made conducive to foster teaching and learning, uneducated parents should find a means of improving the academic pursuit of their children by organizing for lesson teachers, parents should give birth to moderate number of children so as to meet up with their daily needs.

Key Words: Environment, Environmental factor, Academic performance, Secondary school students

Introduction

development. It is regarded as the bedrock of the academic ability of the students. The impact of the nation and plays an indispensable role in national environment remains an important area that should be integration. Due to its importance, the National studied and well managed in the secondary schools to Policy spelt out that education is an instrument for enhance students' academic performance. A school is social change, development and sustainability, an environment where knowledge is acquired at Therefore, for a nation to be revolutionized, the various levels. The environment where this education of its people has to be given priority since knowledge is acquired is as important as the education paves way for civilization and provides a knowledge itself (Ojimba, Iroegbu & Amugo, 2019). sense of belonging to learners in the society. With the With the increase in the population of Nigeria there is assertion that education is a fundamental right, it is need in infrastructure, social amenities, housing, important to ensure that the student environment is schools, jobs etc. to cater for the growing population. regulated in such a way that it will promote academic educational environment is a learning place where the 2013). learner learn and interact with learning facilities in

involve the school, the family, peer group are of Education is a veritable tool for national paramount importance in shaping and reshaping the

Environmental impact before now have not been performance and achievement by learners. This is considered as one of the factors that affect academic because the academic performance of students is performance in secondary schools hence it has little largely tied to environmental factors (Okoi, Okoi & or no attention in educational discourse and Eteng, 2022). Environment plays a major role in the consideration. But over the past decade remarkable life of every individual, whether students or non-studies have indicated a correlation between the students'. Environment can be defined as a system environment and academic performance of students. within which living organisms interacts with the Environment plays major role in the life of every physical elements, it can also be seen as aggregate of individual whether a students, teachers, employer or all the external condition and influence affecting the employee. Though some people are yet to believe that life and development of an organization while environment brings about better performance (Orlu,

Environment is a place where one lives, or order to be socialized and face the challenges in the resides, it is a dwelling place together with a family or society. The environment of the students which social unit that occupies it, a household. Environment



eating meals, doing laundry, playing games, concert, going shopping, picnic among others. While physical environment covers those things that can be seen or touch within the home that support lives (Joseph, 2012).

Environmental impact before now seems not to have been considered as one of the factors that affect academic performance in secondary schools hence it has little or no attention in educational discourse and studies have indicated a correlation between the environment and academic performance of students. Environment plays major role in the life of every individual whether a students, teachers, employer or employee. Though some people are yet to believe that environment brings about better performance (Orlu, 2013).

past seemed to have shifted studies from the measures Arijesuyo, 2013).

The educational sector is one of the sectors in economic development of a nation and has evidently felt a lot of pressure in ensuring that education for all secondary schools being an intermediate institution as point of emphasis have increased overtime from the past and presently we have more than 11,000 secondary schools (Federal Ministry of Education, 2014). Overtime research has explored the maintenance of the facilities within the school buildings like classrooms, libraries, laboratories, workshops, assembly halls, toilets, sickbay etc. and how their deterioration affect the students and have identified problems such as inadequate funding, inadequate facilities, low staff morals, poor supervision of schools, frequent change in policies environment etc. as a major factor that affects students' performance in secondary schools (Timilehin, 2010). The factors that will be considered in relation to environment are location of the home (whether rural or urban, parents' level of education and family size especially as they affect student academic performance in Government. The academic performance of students has been of concern to

consists of social and physical make up. The social decrease the academic performance of the child. make up involves all the social interactions within the Ojimba, et al., (2019) defined family as a small environment, which include emotional climate, kinship structural group with the key function of natural socialization of the new born family background which refers to all the conditions and circumstances in the family which influence the child physically, intellectually and emotionally (Muola, 2010). Children coming from different family background are affected differently by such family conditions. Some children have good (rich) family background while some have poor background.

In Nigerian setting, there is no regulation of the consideration. But over the past decade remarkable family size; hence, one can bear as many children as one deserves. This has led to the expansion of family sizes ranging from two to infinity. Family size in this context means the number of children and parents in the house. In this, case, the family with five children and above is regarded as large family, while those with one to four children is regarded as small families.

Information from literature shows that children Many schools in the area of education in recent from large families are found to be poor academically than those from smaller families (Ojimba, et al; of individual to the measure of the environment. The 2019). The study is therefore directed towards reason that could be adduced for this trend ranges establishing whether home location, parents' level of from the accurate prediction which measures of education and the family size of students are related to environment could bring to learning in order to students' academic performance in Government in possibly manipulate the environment so as to bring Ado local government area of Ekiti State. about optimal conditions for learning (Alokan & Environment is a place where one lives; a residence; physical structure within which one lives, such as house or apartment; a dwelling place together with the family or social unit that occupies it, a household; the place, such as a country or town, where one was born or has lived for a long period of time (Houghton 2009). Environment consists social and physical make up. The social make up are all the social interaction within the home, which include emotional climate, eating meals, doing laundry, playing games, concert, going shopping picnic among others. While physical are those things that can be seen or touch within the home that support lives on the contrary endanger life of individual, electric socket, small objects, electronics, floor or walls, generator, chair and table, kitchen utensil and natural physical features are all examples (Joseph, 2012).

The constituent of environment includes parents, children, buildings as well as related facilities and neighbourhood. Environment is seen as the first place where the child received care and training to enable him or her interacts with the world. The education a child receives from parents is most likely to have a dominant influence upon his behaviour in later life and how a child responds to school life and his parents, guardians, students and even the wider performance is likely to be influenced by his environment. Performance in school subjects could Family is the first social environment the child be as a result of innate difference in intelligence, finds itself. Family environment can increase or however it is also accepted that environment plays a



part in academic performance.

environment includes size of the family, education of and the quality of their home environment. The the parents, location of the family, parents' attitude results suggested that children of young parents with one is from a wealthy home there are greater chances home environment. That increase in parent education clothing, good housing, leisure or recreation, quality students. The estimated effect of additional material home education and moral bringing for their children, schooling for children appears to be more pronounced are also reflected from environment (Orlu, 2013).

environment and academic performance of students.

Family size in this context refers to the total polygamous is prominent. Children from larger school. families are found to do worse than children from smaller families as revealed by Nghambi (2014).

order do worse than those higher up the birth order. Chemistry, Physics and Biology tests were According to Nwogu and Esobhawan (2014), first significantly lower than those in urban groups. He born or the oldest child is usually advantaged by a also reported that a survey carried out in England and good deal of attention and warmth during the early Wales by the National Foundation for Education and stage on age of life, which he entertains all alone. Research confirmed that urban students' performed Observations and studies have shown that more better than their counterparts in rural schools. attention and time are usually accorded to the first Amaechina and Ezeh (2019), compared the born. Orlu (2013) reported that parental attention by performances of rural and urban students in local parents declines as the number of sibling's increases education authority' secondary schools in selected and later born children perform less well than earlier examination and found that the percentage of rural born siblings. Studies carried out in the past on the children was 36% while that of the urban was 56%. relationship between academic performance and Chukwuemeka (2013) studied the incidence of birth order have shown that there were positive mental deficiency and added a strong warning only on

performance during middle childhood used data from inhabitants of urban areas. the national longitudinal survey of youth and children between the age of 6 and 12. The study examined disagreed and stated that rural children were

whether increase in parents' educational attainment is Factors that have been considered as part of home associated with changes in children's performance towards their children education, motivation and low level of education performed better on tests of availability of certain functional facilities at home. If academic skills and have higher quality in terms of and opportunities to provide quality food, adequate does not predict improvement in the performance of for children's in reading than mathematics skills. The Environmental influence before now has not been authors here have reported that parents' level of considered as one of the factors that affect academic educational attainment does not predict improvement performance in secondary schools hence it has little in academic performance of their children. This study or no attention in educational discourse and therefore is investigating further the influence of consideration. But, over the last decade, remarkable parents' education on students' academic studies have indicated a correlation between the performance to see the contributing influence of parents' education to students' performance.

This is because parents' education and children's number of children in the child's family in addition to have direct relationship. In a similar development, the child himself. The type of family that a child Orlu (2013) carried out a research on influence of comes from either monogamous or polygamous parents' education on children's literacy skills in family usually has impact on the child academic secondary schools'. It was found that maternal performance. Moreover, either of the family type education was negatively associated with special (monogamous or polygamous) dictates the size of the education placement particularly for a learning family. Polygamous family is peculiar to Africa in disability. He stated that children of parents with less general and in Nigeria in particular. According to than a high school diploma were twice as likely to be Odoh, Ugwuanyi and Chukwuani (2017), in special education as children of parents with a high polygamous family is a common among well- school diploma. In addition, Amaechina and Ezeh, educated families as well as among poorly-educated (2019), found that children of parents who did not families. He added that it is equally common among graduate from high school were 14 times more likely professional and managerial fathers of the top of the to repeat kindergarten or first grade compared to occupational hierarchy although to unskilled workers children of parents who had graduated from high

Home Location and Students' Academic performance Chukwuemeka (2013) found that the He found out those children lower down the birth mean standardized score of rural children in impetuous person would conclude from Maphoso and Mahlo (2015) in a survey of contemporary data that rural inhabitants as a group maternal education and children's academic generally were inferior in mental endowments to the

However, Agiande (2006) working in America,



definitely inferior in general ability as a group to showed that location of the community in which the cause of academic disparity may not be the nature of pupils. Giving credence to the above, Ajayi (2008) the rural and urban environment itself but the found significant difference in academic performance draw their students from. These complexes have therefore concluded that the performance must have prompted the researcher to investigate further if been borne out of many facilities they were used to location has any influence on students' performance. A study carried out by Aliyu and Ali (2021) on the influence of teacher and school variables on students' performance, claimed considerable evidence to show that home location has influence on students' academic performance. A 60 item Multiple Choice schools in urban areas tend to perform better in Government Performance Test (MCGPT) was administered on 160 SS3 students randomly selected These students' included college students, (from rural and urban) and different social classes (upper, middle difference between the mean performance score of than those in rural areas. The study therefore school students. recommended the need to provide required conditions for teaching and learning in all schools. Statement of the Problem The present study in addition to the variable of location considers the variable of family size and mother education as they affect students' performance in secondary school Government.

Writing on the importance of location, Nghambi (2014) found that it is one of the potent factors that reflected in the school's broad sheet in Ado-Ekiti. influence the distribution of educational resources. population density containing a low variety and (2013) corroborated that "rural community is background of the parents among others. characterized by low population, subsistence mode of network as being present in their urban environment. influence his or her perception and orientation playground are without equipment, libraries are in Government. without books while laboratories are glorified ones.

According to Emmet and Eur (2011), in their Purpose of the Study studies on urban and rural differences in general

urban children. The researcher observed that the main school is situated has effect on the performance of structure of socio - economic group which the schools of students in urban and rural areas of his study. He which were not available in the rural set up. In his study, Byoung-Suk and Christopher (2012) also observed a significant positive relationship between size and location of school and performances in examination in Oyo State. He concluded that large examinations than small schools in rural areas.

Also, Khan, Begum and Imad (2019) in their from 12 secondary schools in 3 local Govt. Areas. different studies on the relationship between academic performance and school location revealed that, there was no significant difference between and low). A t-test analysis revealed a significant academic performance of students in urban and rural schools. Also, in his study Orlu, (2013) found that students in rural area and that of those in urban areas there was no significant difference between students' (at 0.05 level). Those in urban area performed better academic performance of rural and urban secondary

Observation revealed that student's academic performance in Junior Secondary School II in Social Studies seems to be poor. This trend is not only disturbing but also very discouraging especially based on the persistent nature of the problem as

Significantly, the trend of poor performance was Conceptualized urban environment are those widely attributed to teachers and students related environments which have high population density factors. However, this report did not recognize nor containing a high variety and beauty and common emphasize the extent to which certain environmental place views. He further identified the rural variables may have affected students' rate of failure in environment as being characterized by low schools. These environmental variables include socio-economic status of the parents, home location, isolated place views. Earlier in his contribution, Orlu number of siblings within the family and educational

Although this position is not substantially life, monotonous and burdensome "citing hotels, conclusive, it is logical to assert that the home recreational centers, markets, banks and good road environment from where the child is nurtured could Okoi, Okoi and Eteng (2022) accentuated that our towards learning. Thus, a child from a home highly qualified teachers prefer to serve therein rather environment furnished with essential aids to learning than the rural areas. As a corollary of the above, such a good neighbourliness, electricity, televisions Owoeye and Yara, (2011) observed that teachers do set, computer set among other things is likely to learn not accept postings to rural areas because their better than a child from home where these things are conditions are not up to the expected standard as their lacking. It becomes imperative to carry out empirical social life in the areas is virtually restricted as a result research to find out whether environment contributes of inadequate amenities; facilities are deficient, to secondary school students' academic performance

The purpose of this study is to assess the impact



some selected secondary schools in Ado-Ekiti.

Hypotheses

The following null hypotheses were formulated:

- 1. There is no significant difference between home location and academic performance of students'
- 2. There is no significant difference between school environment and the students' academic performance in Government.
- 3. There is no significant difference between family size of students' and their academic performance in Government.

Methodology

the survey type. The choice of survey design is 0.05 level of significance. The null hypothesis is not because data were collected from a fairly rejected, this implies that there is no significant representative sample of the large students' difference between school environment and students' population so as to make generalizations on the entire academic performance in Government population. The study examined the impact of environmental factors on academic performance in Hypothesis 3: There is no significant difference some selected secondary schools in Ado Ekiti. The between family size of students' and their academic population of this study consisted of SS 2 students in performance in Government public secondary schools across Ado Local across the local government.

A self-constructed questionnaire was used to elicit relevant data for the study Section A elicited personal information from the respondents. section B of the questionnaire is designed towards the p>0.05title of the study. It contains 15 questions. The instrument was structured in the modified Likert-type Table 3 shows that the t_{cal} (0.286) is not significant at on a 4-point scale, ranging from (Strongly Agree (4), 0.05 level of significance. The null hypothesis is not Agree (3), Disagree (2), and Strongly Disagree (1). rejected, this implies that there is no significant The data collected were analyzed using inferential difference between family size and students' statistics of students' t-test analysis. All hypotheses academic performance in Government were tested at 0.05 level of significance.

Results

performance in Government.

Table 1: t-test showing the difference between home location and students' academic performance in Government

Variables	N	Mean	S. D	T	P
Home Location	150	33.74	11.46		
Academic Performance	150	45.22	15.480	2.174*	0.000

p < 0.05(Significant Result)

of environmental factors on academic performance in Table 1 shows that the t_{cal} (2.174*) is significant at 0.05 level of significance. The null hypothesis is not accepted, this implies that there is a significant difference between home location and students' academic performance in Government

> Hypothesis 2: There is no significant difference between school environment and students' academic performance in Government

> Table 2: t-test showing the difference between school environment and students' academic performance in Government

Variables	N	Mean	S. D	T	P
School Environment	150	42.79	13.44		
Academic Performance	150	45.22	15.480	1.670	0.570

p > 0.05

(Result Not Significant)

This study employed descriptive research design of Table 2 shows that the t_{cal} (1.670) is not significant at

Government Area of Ekiti State. A sample of 150 Table 3: t-test showing the difference between family students were drawn from 10 secondary schools size and students' academic performance in Government

Family Size	N	Mean	S. D	T	P
Nuclear Family	65	44.20	13.888	0.286	0.082
Extended Family	85	45.22	15.480		

(Result Not Significant)

Discussion

The finding of this study revealed that there is a Hypothesis 1: There is no significant difference significant difference between home location and between home location and students' academic students' academic performance in Government. This finding is in agreement with the finding of Nghambi (2014), who found out that location is one of the potent factors that influence the distribution of educational resources. This finding also corroborates the finding of Kemijika (2009), who worked on urban and rural differences in general and found out that location of the community in which the school is situated has effect on the performance of the pupils.

> The finding also revealed that there is no significant difference between school environment



This finding is in contrast to the submission of Orlu (2013), who submitted that a conducive environment enhances a child's growth and development. It is in tandem with (Okoi, Okoi & Eteng, 2022) who postulated that the environment of the students which involve the school, the family, peer group are of paramount importance in shaping and reshaping the Chukwuemeka, O. (2013). Environmental influence academic ability of the students.

The finding further revealed that there is no significant difference between family size and students' academic performance in Government. This finding is in line with the finding of Odoh et al., Ekundayo, H. T. (2010). Principal's Leadership (2017), who found out that polygamous family is common well-educated families as well as among poorly-educated families. He concluded that children from larger families are found to do worse than the Emmet, S & Eur, L. L (2011). Education in terms of children from smaller families as revealed by Nghambi (2014).

Recommendations

Based on the findings in this study, the following recommendations were made:

- students reading ability.
- ii. School environment should be made conducive to foster teaching and learning.
- iii. Uneducated parents should find a means of improving the academic pursuit of their children by organizing for lesson teachers
- children so as to meet up with their daily needs

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