Volume 4 Issue 4 September 2016 ISSN: 2320- 2653

LEVEL OF ASPIRATION AND ACHIEVEMENT IN PHYSICS AMONG XII STUDENTS WITH RESPECT TO TYPES OF SCHOOL AND GROUP OF STUDY

S.Parimala M.Sc., M.A., M.Ed., M.Phil.,
Assistant Professor, Kasthooribha Gandhi College of Education,
Masakalipatty-637401, Namakkal-DT

Abstract

The aim of this study was to know the level of aspiration and achievement in physics among xii standard students.This scale was developed by Mohanan, Sananda Raj and Annaraja (2001) to measure the level of aspiration of students with 30 statements in four point rating scale, was used to collect the data. This study belongs to Normative Survey method with sample of 247 XII Standard Students out of 117 students are Boys and 130 students are Girls.in five different schools. The back ground variables used are types of school and group of study. The findings of this study are as follows. 1.The Level of Aspiration is 77.47% and Achievement in Physics Level is79.66%.2.There is significant difference between Government and Private of XII standard Students in their Level of Aspiration.3. There is no significant difference between Maths –Biology Group and Pure Science Group of XII Standard Students in their Level of Aspiration. 4. There is no significant difference between Government and Private of XII standard students in their Achievement in Physics.5. There is significant difference between Maths- Biology Group and Pure Science Group of XII standard students in their Achievement in Physics

Introduction

Physics is a subject, unlike other subjects, deals directly with the behavior of the students. As a subject, it concerns with our day today activities and solving of problems logically and sequentially. This may also be a reason to call, it as “King of all sciences”. Such a majestic subject should be taken utmost care on teaching the students. The curriculum framework expects a student to attain a mastery over the subject. There are various psychological traits such as self concept, study involvement; academic stress and Level of aspiration etc. are responsible for the Achievement of the mastery over a subject. Among the psychological traits Level of Aspiration, which is defined as “a person’s expectations, goals or claims on his future Achievement in a given task” is a important one. Thus a person possesses high Level of Aspiration achieve more in his/her task.

Need for the Study

The centum scorers in physics are low compared every year with other subjects. The centum scorers in physics in the year

2010-2011--646 persons,
2011- 2012--142 persons,
2012-2013 – 36 persons,

2013 - 2014 -- 2710 persons,
2014 - 2015 –124 persons and
2015 - 2016 –2 persons only.

Success is not a simple matter psychologically it is related to the level of aspiration. Level of aspiration means the level of future attainment for which the individual sets for himself/herself in some task. Success is interpreted experimentally as a performance that is equal to or better than the level of which the individual aspired.

Many researchers have found that level of aspiration is one of the factors contributing to the academic Achievement of the students. Once an Aspiration Level is included, the probabilities of success and failure are naturally identified. So the investigator has decided to conduct a study on the Level of Aspiration and Achievement in Physics of XII standard students.

Review of the Study

Lowell M. Walter and Stanley S. (2007) studied that the relation of sex, age and school Achievement to levels of aspiration. The sample of the study was 80 Pupils in the laboratory schools at Illinois State Normal University in grades 4, 6, 8, and 12. Survey method was followed to collect the data with statistical techniques as mean, standard deviation,'t' test, coefficient of correlation (r value).The findings of the study are the average discrepancy between achievement and subsequent goal was greater for boys than for girls. Variance from grade to grade was not significant. 2. The differences between groups with above-average and below-average Achievement scores were not consistent in the four grades tested

Mark Davies and Denise B. kindle (2011) A study on Parental and Peer Influence on Adolescents' Educational Aspirations. The samples are Adolescent-parent-best friend triads. Method of study is Survey method. Mean, Standard Deviation, 't' test, Coefficient of Correlation (r value) are the statistical techniques followed for data analysis. The findings are 1. Parental influence on the adolescent's aspirations was stronger than peer influence and this influence did not decline over the adolescent years. 2. Peers were involved in a process of reciprocal influence, and peer influences were stronger among girls than among boys.

Statement of the Problem

In this study, the investigator means the Level of Aspiration as a desire or ambition for which someone is motivated to work very hard. The investigator, being a teacher educator, realizes the significance of the Level of Aspiration which is closely related to the success of the learners. So the investigator made an attempt of studying the level of Aspiration and Achievement in Physics among XII standard students.

Objectives of the Study

- To find out the Level of Aspiration and Achievement in Physics of XII standard students.
- To find out whether there is any significant difference between Government and Private XII standard students in their Level of Aspiration and Achievement in Physics.
- To find out whether there is any significant difference between Maths-Biology group and Pure Science group of XII standard students in their Level of Aspiration and Achievement in Physics.

Null Hypotheses

The null hypotheses were framed for the above objectives.

Sample of the Study

This study belongs to Normative Survey method with sample of 247 XII Standard Students out of 117 students are Boys and 130 students are Girls. In five different schools. The back ground variables used are types of school and group of study.

Tools of the Study

This scale was developed by Mohanan, Sananda Raj and Annaraja (2001**)** to measure the level of aspiration of higher secondary students with 30 statements in four point rating scale, the options such as Strongly Agree, Agree, Disagree, and Strongly Disagree. The scale consists of 16 positive and 14 negative statements the scores would fell between 150 and 30 scores above 50 percentages can be rated as favorable to the given point of view. For Academic Achievement the investigator got the Quarterly Marks from respective schools

Reliability and Validity of the Tool

To ensure the validity of the tool the investigator used content validity by getting judgment about the statements in the tools from the teachers, teacher educators and experts in the field of education. The reliability of the tool was found to be 0.71by test and re-test method.

Statistical Techniques Used

Mean, Standard Deviation 't'-test and Karl Pearson's Product Moment Correlation.

Data Analysis

Table 1

Level of Aspiration and Achievement in Physics among XII Standard Students

Samples	N	Level of Aspiration	Level of Achievement in Physics
XII Standard Students	**247**	**77.47%**	**79.66%**

The above table -1 shows that the Level of Aspiration of XII Standard Students was 77.47% and their Achievement in Physics was 79.66%.

Table 2

Significant Difference between Types of School and Group of Study among XII Standard Students Based on Level of Aspiration

Category	N	Mean	SD	't' value	Significance at 0.05 Level
Government	124	78.48	8.23	2.03	S
Private	123	76.48	7.26		
Maths- Biology Group	123	78.35	7.70	1.57	NS
Pure Science Group	124	76.79	7.82		

The above table -2 represents that the calculated 't' value (2.03) of types of school is greater than the table value (1.97) at 0.05 level of significance. Hence the Null hypothesis is rejected. Thus there is significant difference between Government and Private XII standard Students in their Level of Aspiration.

Also the calculated 't' value (1.57) of group of study is less than the table value (1.97) at 0.05 level of significance. Hence the Null hypothesis is accepted. Thus there is no significant difference between XII standard Students of Maths –Biology Group and Pure Science Group in their Level of Aspiration. All Mean values are more are less equal in Level of Aspiration

Table 3

Significant Difference between Types of School and Group of Study among XII Standard Students Based on Achievement in Physics

Category	N	Mean	SD	't' value	Significance at 0.05 Level
Government	124	80.50	8.66	1.09	NS
Private	123	79.32	8.21		
Maths- Biology Group	123	81.11	7.97	2.23	S
Pure Science Group	124	78.73	8.75		

From the above table -3 it is found that the calculated 't' value (1.09) of types of school is less than the table value (1.97) at 0.05 level of significance. Hence the Null hypothesis is accepted. Thus there is no significant difference between Government and Private XII standard students in their Achievement in Physics. The Mean value of Achievement in Physics of XII standard students of Government Schools is more are less equal to Private Students.

Also the calculated 't' value (2.23) of group of study is greater than the table value (1.97) at 0.05 level of significance. Hence the Null hypothesis is rejected. Thus there is significant difference between Maths- Biology Group and Pure Science Group of XII

standard students in their Achievement in Physics. The Mean value of Achievement in Physics of Maths- Biology Students is greater than that of Pure Science Students.

Major Findings of the Study

From the present study the investigator drives the following data

- The Level of Aspiration is 77.47% and Achievement in Physics Level is 79.66%.
- There is significant difference between Government and Private XII standard Students in their Level of Aspiration.
- There is no significant difference between Maths –Biology Group and Pure Science Group of XII Standard Students in their Level of Aspiration.
- There is no significant difference between Government and Private XII standard students in their Achievement in Physics.
- There is significant difference between Maths- Biology Group and Pure Science Group of XII standard students in their Achievement in Physics.

Recommendations of the Study

The investigator recommends the following for improving the Level of Aspiration of the XII Standard Students and their Achievement in Physics.

- The school authorities and teachers should conduct brain storm sessions to the XII Standard Students.
- The teachers should organize peer group teaching sessions among the XII Standard Students.

Conclusion

The Level of Aspiration is and Achievement in Physics Level is high. As the present study reveals that Level of Aspiration is one of the main factor for the Achievement in physics of XII standard students. So there is an urgency to foster the values and to raise Level of Aspiration of Students, since they are the architect of the future India.

References

1. Abu-Hilal, M.M. (2000). A structural model of attitudes towards school subjects, academic aspiration and achievement. *Journal of Education Psychology*, Vol.-20(1), pp. 75-84.
2. Annaraja, P., Sam Sananda Raj, H. &Mohanan A., (2006). Inter-relationship among academic achievement, study habits, and level of aspirations: A study on Higher secondary students. *Research and Reflection on Education* 4, 02, 2-4 April- June.