

CHAPTER FIVE

Implication and Suggestions

5.0.0 INTRODUCTION:

This chapter presents a brief summary and findings of the study. This is followed by the educational implication based on the findings of the study, suggestions for further research on related topic have also been outlined.

The present study deals with the effect of Alternative Instructional Material (AIM) on arithmetic achievement.

Variables of the study :

Independent variable : Alternative Instructional Material(AIM)

Dependent variable : Arithmetic Achievement

Background variable : Gender

Locale

Intelligence level

The researcher used single group pre test post test design to find out the effect of Alternative Instructional Material (AIM) on arithmetic achievement among students of class V.

Sample was drawn from urban as well as rural locale. In urban school, there are four sections of class V and each section has the strength of 35 students. The researcher had taken 13 students from each section by adopting random sampling technique. So, the sample of urban school consisted of 52 students.

In rural school, there was only one section of class V. so , All the 42 students of that class consisted of the sample.

Tools used were ,

- The Raven's Coloured Progressive Matrices (CPM) to measure Intelligence
- Achievement Test for pre as well as post test.

The data was tabulated and analyzed by the quantitative statistics.

5.1.0 MAJOR FINDINGS:

- Teaching and learning through Alternative Instructional Material (AIM) could definitely help students.
- There was a significant increase in the post test scores of both girls and boys.
- The 'Intensity of Improvement' in achievement was same in boys and girls.
- The ' Intensity of Improvement ' of rural students due to the intervention of Alternative Instructional Material (AIM) was found better than that of urban students.
- Alternative Instructional Material (AIM) improved arithmetic achievement among students of different Intelligence level.
- Alternative Instructional Material (AIM) was found more beneficial to below average Intelligence students.

5.2.0 RECOMMENDATIONS OF THE STUDY:

The findings of the present study indicate that there is a positive effect of Alternative Instructional Material (AIM) on learning. Keeping in mind the findings, the material can be recommended in different areas like,

- Day to day classroom practices.
- Teacher Training Programme organized by DIET.
- Teacher trainees of the DIET.
- To prepare text books and supplementary material
- To develop teacher's handbook.

5.3.0 EDUCATIONAL IMPLICATIONS :

This study direct implications for classroom teaching, as well as , for the teacher education programme. Some of the major implications visualized are as follows:

- The alternative instructional material used in teaching process help learners to learn the arithmetic effectively.
- Activities, puzzles, games, new methods of problem solving involved in teaching learning process motivate the students to learn better, hence lead to greater achievement.
- When the alternative instructional material is devoid of linguistic difficulties and of student's interest, the students learn, understand the concepts of arithmetic in a more enthusiastic manner.
- The alternative instructional material helps the teacher to develop new strategies in teaching arithmetic.
- The alternative instructional material must be provided to all the educational institutions as compulsory part of teaching learning arithmetic.
- Further, the success of the use of the alternative instructional material depends on the proper use of material and hence, the teachers should be properly trained to use the alternative instructional material, therefore teacher educational institute should train all the prospective teachers in the development of alternative instructional material.
- As we have found that the achievement of the students learning through the alternative instructional material was significantly higher, it should be made obligatory to follow strategy in classroom practices in order to improve the comprehension of students in arithmetic

5.4.0 SUGGESTIONS FOR FURTHER RESEARCH STUDIES:

The present study being exploratory in nature brings into limelight several issues. In which further research can be undertaken following are the few suggestions for the further research :

- The study can be under taken with a large sample for precise results.
- Different class levels can be selected.
- The alternative instructional material may be developed and validated in the other areas of mathematics such as geometry, algebra, statistics, etc.
- The relative effectiveness of pictorial, audio-visual and activity based alternative instructional material may be studied.
- Further research may be focused on the extent of which the alternative instructional material would help in using the arithmetic in day to day life.

It will be interesting to study the effect of the alternative instructional material keeping in focus the following variables.....

1. Mental age and educational age of the students
2. Social and economical background of the students.
3. Parents' educational qualifications
4. Personality adjustment and emotional intelligence of the students.