

CHAPTER - 4

DESIGN AND PROCEDURE OF THE STUDY

4.1 Introduction

The present study is aim at studying the effectiveness of Group Work Activity in teaching English. The present chapter therefore, deals with the specific methodological aspects.

The discussion has been dividing into the following:

- a. Title of the Study
- b. Objective of the study
- c. Hypothesis of the study
- d. Operationalization of the terms
- e. Procedure of the study

4.2 Title of the Study

EFFECTIVENESS OF GROUP WORK ACTIVITIES IN TEACHING ENGLISH
AT SECONDARY LEVEL

4.3 Objectives of the study

To find an effectiveness of teaching English by using group work activities of the secondary school students in Ankleshwar. The main objective split into the following objectives:

Task Objectives

1. to compose Group work activity in the selected unit of std. 9th English text book.
2. to test an effectiveness of Group work activity in selected unit of std. 9th English text book.
3. to know an opinion of the students of Experimental Group about Group Work Activity.

Research Objectives

1. to compare between the mean scores of pre-test and post test of the students of control group.
2. to compare between the mean scores of pre-test and post test of the students of experimental group.
3. to compare between the mean scores of post-test of the students of control group and experimental group.

4.4 Hypothesis of the Study

The main research problem was to find an effectiveness of teaching English by using group work activities and to see the method had a positive effect on the academic achievement in the English subject of secondary school student in Ankleshwar (Gujarat). In order to investigate the various dimensions of the general research problem, the following null hypotheses were tested at the secondary school level:

1. There will be no significant difference between the mean scores of pre-test and post test of the students of control group.
2. There will be no significant difference between the mean scores of pre-test and posttest of the students of experimental group.
3. There will be no significant difference between the mean scores of post-test of the students of control group and experimental group.

4.5 Operationalization of the terms

Effectiveness:

In the present study the researcher, investigate the positive effect of group work activity in teaching English at secondary level, which means the researcher wants to see the success or the usefulness of the helpfulness of the Group work activity in teaching English subject at secondary school.

Group Work:

In the present study for researcher Group work means, the students divided in cluster of two or more then two to investigate or learn something, e.g. the syllabi of the English subject.

Activity:

In the present study for the researcher the word Activity means, students doings assign task in cluster of two or more then two. To learn the syllabi of the English subject.

Secondary Level:

In Gujarat, the Government has changed the education policy in which the school pattern as follow:

- 1. Pre-Primary School:** class 1st to 5th – aged between 5 to 10 years students.
- 2. Upper-Primary School:** class 6th to 8th – aged between 11 to 13 years students.
- 3. Secondary School:** class 9th and 10th – aged between 14 to 15 years students.
- 4. Higher Secondary school:** class 11th and 12th – aged between 16 to 17 years students.

For the researcher secondary level means the school, which provides education of 9th and 10th class student followed by the upper primary school. In which the students are admitting after the success of std- 8th, and received an education of 9th and 10th standard.

4.6 The Procedure

The procedure indicates the strategy of investigation, includes the methods to be used to collect, and analyses the data. The strategy indicates how the research objectives will be researched and how the problems encountered in the research will be tackled. Therefore, the discussion about the procedure includes following issues.

1. The Population,
2. The sample,
3. The Experimental design,

4. Tools employed in the present study,
5. Tools used for measurement,
6. Data collection procedure,
7. Data Analysis and Interpretation,
8. Duration of the Study,

4.6.1 The Population

The present study will be meant for development and to see the effect of Group Work Activity in teaching English at secondary level in Gujarati medium school students of Ankleshwar city. Therefore, all the students of std. 9th and 10th of Gujarati medium school of Ankleshwar city will become the population for the study.

4.6.2 The sample

The investigator has selected IXth standard student as the sample for the present study. The researcher him self belong to the countryside of Ankleshwar City namely Taria. One reputed secondary school along with primary school located near by the researcher village namely Shree Sajod Sarvajanic High School, Sajod. The researcher had completed his schooling from the school. In addition, the school is well known for extra co-curricular activity and the Poet Mr. Viren Ghadiyari (Principal of the school & English Poet). Therefore, the researcher had selected the school as the sample of the present study. The principal and the teacher of the school said that the division of class as per the previous year results so the division of the class was equal in number. Therefore, the researcher has selected one whole class as an Experimental and second as a Control Group. Thereby, all the student of IXth-A and IXth-B standard became the sample of the present study.

4.6.3 The Experimental design

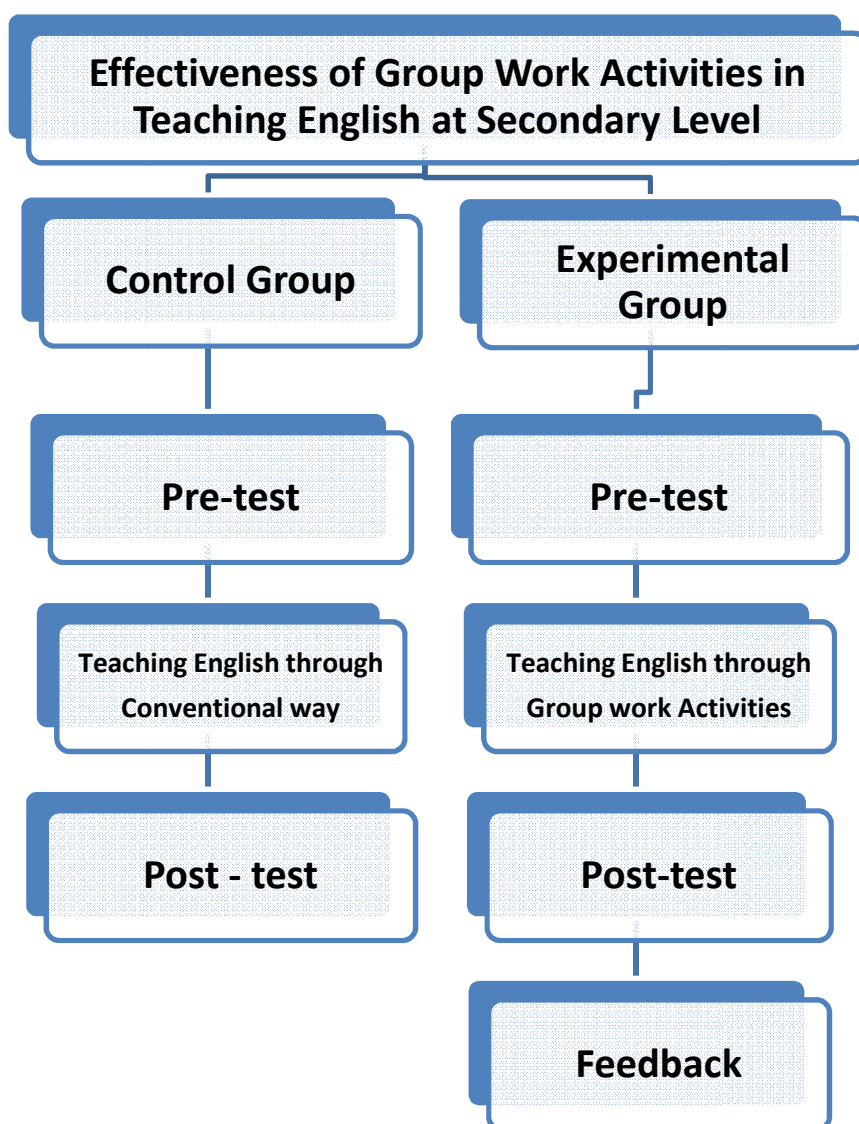
As mention in the present chapter, the main aim of the present investigation was to study the comparative effect of two teaching methods for teaching of English. It was therefore, necessary to have two groups to conduct the experiment.

In order to get two groups the researcher select randomly IXth-A as an Experimental Group and IXth-B as the Control Group.

The design selected for the present experiment was “The Pre-Post Experimental – Control two group design.”

The sample of the present experimental was divided into two groups and randomly one group was assigned for experiment. Before starting the experiment and at the end of the experiment, the same achievement test was to be administered. In between Pre-test and Post-test treatment was to be given to both the groups.

THE DESIGN OF TWO GROUPS EXPERIMENTATION CAN BE REPRESENTED AS FOLLOW:



4.6.4 Tools Employed in the present study

Experimental Module

The present study aimed at developed of functional competencies in English language arts and was limited only to category of comprehension in language arts. There are three levels of comprehension –

- a) Translation
- b) Interpretation
- c) Extrapolation

However, the present study did not consider these three levels of comprehension separately but considered them as a completely integrated one category “Comprehension.” For the present study, the category comprehension in language arts are stated in terms of linguistic aims as follows:

- a) Listing Comprehension
- b) Reading Comprehension
- c) Comprehending ideas through listening and reading

Considering the above mention linguistic aims the prescribed content of the English subject was organized according to planned treatments i.e. –

- a) Listening treatment
- b) Reading (silent) treatment
- c) Listening and Reading treatment

According to above mention-planned treatments the next task of the investigation was to develop a lesson plan for teaching into the actual classroom situation.

An effective planning for teaching the units is that which presupposes the knowledge of the previous learning experiences. Therefore, considering the previous learning experiences of the sample, the following points must be given due consideration while preparing the plan for teaching the unit.

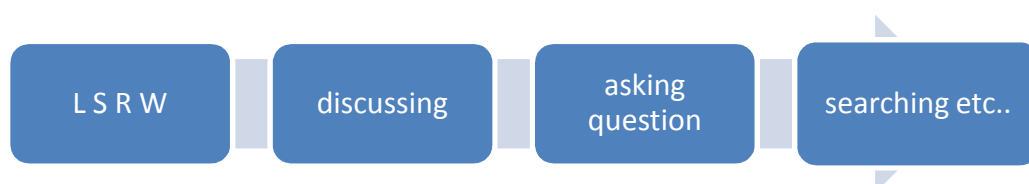
a) Content Analysis



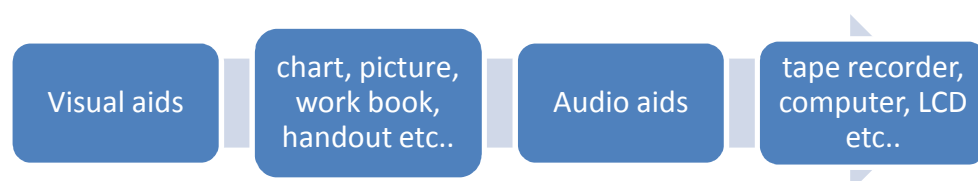
b) Specification of the objective



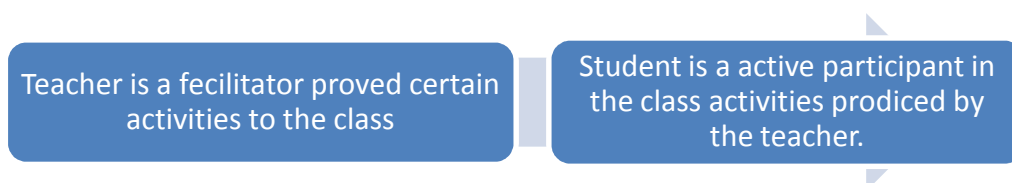
c) Learning Experiences



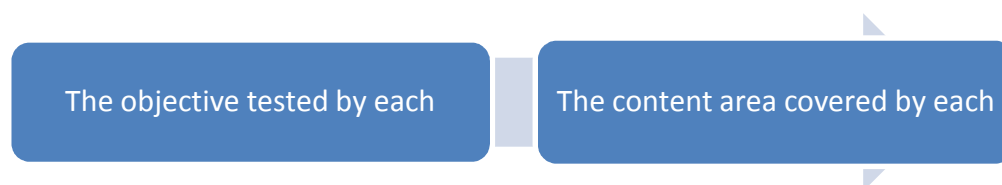
d) Teaching Aids



e) Teachers' Students' activities



f) Evaluation – Unit test



Foundation for formulating the teaching strategy:

Wesley E.B. has given seven basic possibilities of communicating which includes all the basic aspects of the teaching process. They are:

1. Talking
2. Picturing
3. Demonstrating Gesturing
4. Gesturing
5. Writing
6. Reading
7. Guiding

Wesely E.B. and Adam M.A. have suggested eleven basic types of learning experiences. They are:

1. Learning
2. Experimenting
3. Creating
4. Observing
5. Co-operating
6. Collecting
7. Leading
8. Following
9. Re-Creation
10. Reciting
11. Evaluating

Form the above mention conceptual idea the experiment module were develop for the present investigation by the researcher.

The experimental module is group oriented. Students sit among their groups. The teacher gives, if necessary, some instructions regarding their assign work. If necessary, the teacher also gives some explanation, students correct their answer with the help of their groups' members. The group leader also check whether all the member of the groups have completed their work.

The experimental module was modified two times before the present investigation. First, the researcher had prepared the module and show to the mentor, the mentor suggests some change in the module. The researcher had made necessary change in the module. In addition, the researcher had take expert view, expert suggest some change. Again, the researcher had made some change in the module and the final module was prepared. The final experimental module was prepared that is attach in the Appendix.

4.6.5 Tools used for measurement

Achievement Test

An Achievement test was developed by the Investigator and administered to both the groups before concluding the experiment. The same achievement test was administered again to both groups after conducting the experiment and the result were obtained for testing the hypotheses. The Achievement test was comprehension based, it include five questions. Out of that five first three questions was based on the given paragraph, one question based on degrees of comparison and last one based on picture description. The final Achievement test was prepare that is attach in the Appendix.

Feedback Form

A Feedback Form was developed by the Investigator and administered to the Experimental group after concluding the experiment. The feedback form was developed in order to check the Effectiveness of Group Work Activities. It include Eleven statement regarding the Group work activity in teaching English or the English language class with special reference to Group work activity. The final Feedback form was prepared that is attached in the Appendix.

4.6.6 Data collection procedure

As mentioned in the present chapter, the main aim of the present investigation was to study the comparative effect of two teaching methods for teaching of English. It was therefore, necessary to have two groups to conduct the experiment. It was therefore; necessary to check previous knowledge of the student of both the groups, and then the respective treatment was given to both the groups.

In order to check previous knowledge of the students of both the groups that is Control and Experimental Group the researcher administered Pre-test and measured the score of given achievement test.

Then the respective treatment was given to both the group respectively conventional teaching method that is no change in daily teaching strategy to the control group and teaching through the group method to the students in experimental group. The content matter and the time duration was the same while teaching both the group.

Then the researcher administered post-test to check the effect of teaching programme both the groups method technique in teaching English subject and measured the score of given achievement test.

Then the researcher had taken the views of the student of experimental group about the group method teaching strategy in feedback form that is prepare by the researcher him self.

4.6.7 Data Analysis and Interpretation

The required data were collected for experimentation by using the developed tools in actual classroom situation. To obtain the result from this, the following statistical techniques were used:

The first objective of the study viz

to compose Group work activity in the selected unit of std. 9th English text book. (Group Work Activity) did not need any statically treatment.

The second objective of the study viz

to find an effectiveness of Group work activity in form of student performance on Achievement Test (Teacher made test)

The data in respect of achievement tests were analyzed on computer by using Micro Soft Excel the following statistical procedure was used.

- a. Mean
- b. Standard division
- c. Variance

- d. dof
- e. t - test

For, first and second objective – Paired t test and third objective unpaired t test used.

Signification of the difference between mean was seen at 0.01 levels as the criterion for the rejection of the null hypothesis. The hypotheses were tested through t-test.

4.6.8 The third objective of the study viz

to know an opinion of the students about Group Work Activity (Experimental Group).

The data in respect of Feedback form were analyzed qualitative data analyses – percentage analysis.

4.7 Variables

Variable are the conditions or characteristics that the experimenter manipulates, controls or observes. Independent variables are the conditions or the characteristics that the experimenter manipulates in his attempt to ascertain their relationship to observe phenomena. Hence in the present experiment ‘Independent Variables’ were the types of approaches to teaching English i.e. –

- a. Group Work Activities
- b. Conventional programme

The dependent variable are the conditions of characteristics that appear, disappear or change as the experimenter introduces, removes or changes independent variables. Hence in the present experiment ‘Dependent variables’ were the achievement scores measured on the achievement test administered before starting the Experiment and at the end of the experiment. The effect of the independent on the dependent variables would be obtained on achievement of gain scores i.e. Post test MINUS pre test scores. Achievement scores measured on Achievement test, which was administered on the Experimental and Controlled group.

Controls:

Variable that are not of the direct interest to the researchers may be removed or their influence be minimised. In the present study the investigator tried by means of different ways to minimise the influence of the following variables:

1. Two Groups
2. Teacher's efficiency
3. Content matter
4. Time factor
5. Environment of the sample

4.8 Duration of the Study

The present study was under taken during the academic year of 2011-12. The study was fall under the following head:

- Stage One: Identifying the research problem and Topic of the study and start reading about the selected area of research phase
- Stage Two: Review of the related literature phase
- Stage Three: Tools preparation and Validation phase
- Stage Four: Data collection phase
- Stage Five: Data Analysis and Interpretation phase
- Stage Six: Report writing phase

4.9 Conclusion

The most important aspect of the present study was the development of Group work Activities and see the effectiveness of the Group Work Activity has been presented in this chapter. It includes three major aspects of the educative process viz.

1. Content Organization
2. Teaching Strategy
3. Evaluation Procedure / Achievement used

In conclusion, it can be stated that the implementation of the Group Work Activity resulted in achieving the goal of Teaching English. How the teaching was actually conducted by, means of developed Group Work Activities in the experimental group has been described in the nest chapter.