



# The Effects of SCE Programme on Achievement and Retention of Gujarati Learning of Students of Primary School

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## Abstract:

*SCE Evaluation process & Cooperative learning, as an instructional methodology provides opportunities for diverse students to develop skills in group interactions and in working with others that are needed in today's world (Johnson & Johnson, 1990). The purpose of this study was to determine the effects of the SCE Programme approach of SCE Programme on the achievement of content knowledge and retention toward the teaching method. SCE Programme was compared to traditional lecturer teaching learning classroom structure using a t-test. An achievement test, consisting of items from the Test of Gujarati Literacy which is a standardized test of Gujarati content prepared by the investigator. A retention test was administered three weeks following the achievement test. Achievement test scores and first semester grades in elementary Gujarati classes were used as covariates to adjust for possible preexisting differences between the groups. Analysis showed significant difference among the dependent variables (achievement and retention) between the teaching methods used.*

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**Keywords:** SCE (School based comprehensive evaluation), Achievement, Gujarati learning

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## 1. Introduction

In recent years, India has experienced an important paradigm shift in education: a teacher-centered approach has been replaced by a learner-centered approach. Put differently, the emphasis is now on an Outcomes-Based Education approach as the key underlying principle of the National Curriculum Framework

Within the NCF curriculum, but specifically in Gujarati, it is of critical importance that learners learn how to gather relevant information and to transform such information into marketable knowledge; in other words, the learner has to be enabled to identify problems and find solutions to these challenges by means of creative and innovative thinking in real-life situations.

To ensure that the outcomes of Gujarati teaching are achieved, Gujarati's teachers are compelled to consider different teaching strategies and methods. By pursuing these new strategies and methods, Gujarati's teachers will be enabled to initiate teaching and learning effectively so that knowledge, skills and positive attitudes may be optimized among learners in their response to the Gujarati environment. Excellent and effective teaching demands a host of devices, techniques and strategies not only to achieve cross critical outcomes, but because variety, itself, is a desideratum.

## 3. Statement of the Problem

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## 4. Objectives

1. To Develop SCE programme for standard 8<sup>th</sup> primary school Students.

2. To know the effect of School based comprehensive evaluation programme on the students of 8<sup>th</sup> standard of Primary School
3. To know the effect of School based comprehensive evaluation programme on the students of 8<sup>th</sup> standard of Primary School in Gujarati Subject.
4. To know the effect of SCE Programme on retention of 8<sup>th</sup> standard of Primary School.
5. To know the effect of SCE Programme on the Achievement of 8<sup>th</sup> standard of Primary School.

## 5. Hypotheses

The following hypothesis is developed:

**Ho<sub>1</sub>** There will be no significant difference of Achievement between post tests means scores of Traditional group and Experimental group on Gujarati achievement test.

**Ho<sub>2</sub>** There will be no significant difference of retention between post tests means scores of Traditional group and Experimental group on Gujarati achievement test.

## 6. Methodology

### 6.1 Research design

A quasi-experimental research, with partially matched Cooperative learning & SCE-experimental and traditional lecture method groups, was constructed because of its resistance to common threats to internal validity (Mouton, 2001 & Gray, 2004).

### 6.2 Sampling

Students of standard 8 were identified for the investigation. Only 112 students who were registered for module. In the present study the random sampling method has been adapted from the primary School of Mehsana District. The experimental group consisted of 56 students and the control group of 56 students. Both groups were taught by the researcher over a 6-week period of two contact sessions of 40 minutes per week for the first Term

### 6.3 Research instrument

The Test of Gujarati Literacy Level which is a created by researcher test of Gujarati content. The researcher used Gujarati Literacy Test for the post test for both groups. The Gujarati Literacy Test composed of fifty multiple-choice items which was structured and aligned on the content of Gujarati. Achievement and Retention instruments were also used in this study to obtain data. All students concerned were informed that results of information will only use for research purposes. This gave the researcher an indication on which angle to present the SCE Programme during the contact sessions.

### 6.4 Procedure

The experimental group received training and demonstrations in using SCE Programme during their contact sessions. After 6 weeks, all participants (N=112) were retested with the Achievement and Retention instruments. The researcher calculated the standardized mean difference of percentiles to determine impact on students' Gujarati literacy levels. First Internal exam's marks in Gujarati were used as covariate measures. In order to control for the "teacher quality" variable, both groups were taught by the regular Gujarati teacher. Both groups were taught the module on Gujarati using the same content outline, but students in the SCE Programme group completed learning activities in small heterogeneous groups, while the students in the control group completed activities individually. The two-chapter module was taught to both groups over a six-week period. The test was administered to both groups at the end of the instructional unit. Three weeks later, the test was administered again to the students to determine retention of information.

## 7. Results and Discussion

Test scores and average marks in Gujarati showed that students who were exposed to the SCE Programme strategy compared to those in the lecture method were significantly different (see Table 1). Student achievement was measured by the number of correct responses on the 70-item achievement

test developed by the researchers. The test of retention was administered three weeks following the achievement test (see Table 2).

**Table 1: Difference between post test mean scores of Traditional group and Experimental group on Gujarati achievement test**

Post -Test	Group	N	Mean	SD	t-value	Remarks
	Control Group	56	40.25	8.005	2.191	Significant at 0.05 level
	Experimental Group	56	38.43	8.577		

**Table 2: Difference between post test mean scores of Traditional group and Experimental group on retention**

Post -Test	Group	N	Mean	SD	t-value	Remarks
	Control Group	56	40.43	8.577	2.34	Significant at 0.05 level
	Experimental Group	56	41.09	7.922		

Based upon the findings of this study, the following conclusions were drawn:

1. The Cooperative Learning technique is more effective than the lecture method with regard to Gujarati student achievement or student retention of information.
2. The Cooperative Learning technique is more effective than the lecture method with regard to Gujarati students' attitudes toward the method of instruction.

## 8. Conclusion

The results of this study are encouraging and add to the work of other research studies. SCE Programme was found to be more effective than lecture method with respect to Gujarati students' achievement and retention in this study, the literature suggests there may be additional reasons to use Cooperative learning & SCE. Certainly, the ability to work with others within a group and to develop interpersonal skills may be justification for using SCE Programme strategies. This study has shown that SCE Programme methods were more effective than lecture method with regard to achievement and retention, so concerns about the effectiveness of SCE Programme methods in these areas have been addressed. Students taught by cooperative methods should perform equally as well as students taught by lecture method.

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