



CHETANA  
INTERNATIONAL JOURNAL OF EDUCATION (CIJE)

Peer Reviewed/Refereed Journal

(ISSN: 2455-8729 (E) / 2231-3613 (P))

Impact Factor  
SJIF 2023 - 7.286



Prof. A.P. Sharma  
Founder Editor, CIJE  
(25.12.1932 - 09.01.2019)

## Effectiveness of 5E Model in Teaching Geography on the Achievement of Upper Primary School Students

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First draft received: 27.11.2023, Reviewed: 29.11.2023, Accepted: 16.12.2023, Final proof received: 18.12.2023

### Abstracts

*The objective of the study is; (i) to study the effectiveness of 5E Model in teaching Geography on the achievement of upper primary school students. A sample of 84 students of class VII was purposively selected for the purpose of experimentation. There were 44 students in the experimental group and 40 students in the control group. In this study two groups pre-test post-test parallel form design was used. Self-made Achievement Test was used for the purpose of collection of data. Findings of the study revealed that; (i) the 5E Model is more effective than traditional method in the Achievement of upper primary school students.*

**Key words** – 5E Model, Achievement etc.

### Introduction

Education is the process of knowing own self. It helps the learners to be self-reliant self-sufficient. Schools are meant for the realization of the above goals of education. Especially Upper Primary education plays a significant role in this perspective in our country. To facilitate the learners with all round development; designing different types of instructional strategies are essential. It helps the learners to grow physically, mentally and socially. In this regard teachers have to carry out multiple responsibilities, which make them to be engaged in several professional roles. Among all the different roles the most essential role of a teacher is to design suitable model of instruction to create a conducive learning environment. For teaching different school subjects various researches have been conducted on models of teaching by the researchers. The present research is confirmed to the models of teaching. The investigator wants to use 5E Model in teaching geography on the achievement and development of concepts of geography of Upper Primary student.

### Rationale of the study

Knowledge on Geography makes our learners better citizen of the society. Information regarding different places on earth and their inter relationship can be studied by the subject geography. Usually Geography subject have many discrete concepts; such as Community, Region, Country, Continent, and so on. Upper Primary education aimed at the development of different geographical concept among the students. But it is found that maximum number of students are deprived from getting optimum benefits from teaching of Geography by using traditional methods of teaching. Research found that due to lack of proper teaching strategies students were unable to achieve the pre fixed goals in the subject Geography. For the present research the investigator has selected 5E Model to know its effectiveness in teaching Geography on the achievement of Upper Primary school students.

## Objective of the study

Objective of the study is :

1. To study the effectiveness of 5E Model in teaching Geography on the Achievement of Upper Primary school students.

## Hypothesis of the study

hypothesis of the study is :

1. There is no significant difference in the mean Achievement Test gain scores of Experimental and Control groups taught through 5E Model in teaching Geography.

## Design of the study

Pre-test, post-test parallel group design was used for the purpose of experimentation. At the outset the investigator prepared an Achievement Test. The pre-test like Achievement Test and was administered before treatment. 30 lessons were prepared considering the steps of 5E Model and Traditional method. 5E Model was used in experimental group and Traditional Method was used in the Control group. As soon as the treatments completed, the post-test that is Achievement Test was administered to know the effectiveness of treatment and the gain scores were obtained.

## Sample of the study

Purposive sampling method was used for the purpose of experimentation and collection of data. 44 students in experimental group and 40 students in control group and total 84 students were selected for the purpose of experimentation.

## Tools of the Study

The following tools were used.

1. **Achievement Test:** by taking the helps of subject experts and guide; an achievement test was prepared by the investigator from the contents of class VII Geography textbook. There were 40 items in the test. Each item is objective type. The time limit for the test is 30 minutes. Each item consists of 1 mark. For right answer one mark and for wrong answer zero mark has been awarded.

## Analysis and Interpretation of Data

### Effectiveness of 5E Model in Teaching Geography on the Achievement of Upper Primary School Students

One of the objectives of the present study is "to study the effectiveness of 5E Model in teaching Geography on the Achievement of Upper Primary School students". The hypothesis corresponding to this objective was "there is no significant difference in the Mean Achievement Test Gain scores of Experimental and Control Groups taught through 5E Model in teaching Geography". Keeping this hypothesis in mind the Mean Achievement Test Gain scores were analyzed with the help of *t'* test between experimental and control groups. The results are depicted in table 1.1

**Table 1.1**

Groups	Mean Gain AT Score	SD	N	't' Value	Result
<u>Experimental Group</u>	17.5	6.42	44	3.90	Significant at 0.01 level
<u>Control Group</u>	12.30	5.85	40		

From the table 1.1 it is observed that the *t'* value 3.90 is significant at 0.01 level. It indicates that the Mean Achievement Test Gain scores of the experimental and control groups differ significantly from each other. In other words, the treatment of 5E Model produced differential effect on the Achievement of students in Geography. So the null hypothesis "there is no significant difference in the Mean Achievement Test Gain scores of Experimental and Control groups taught through 5E Model in teaching Geography" is rejected. It can be concluded that the treatment Concept Attainment Model is effective for Achievement of students in Geography.

## Findings of the Study:

The following are the findings of the study:

- The treatment 5E Model is more effective than Traditional Method on the achievement of students in Geography.

## Recommendation:

The study recommends as:

- Upper Primary schools teacher should given orientation on 5E Model.
- Upper Primary schools teacher should apply 5E Model in teaching Geography.

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