



## A Critical Study of Scientific value and Psychological values implied in Science Textbook of NCERT of Class 7<sup>th</sup>

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### Abstract:

School is the place where the education is implemented through curriculum. The aim of the present paper is to know the science subject is inculcating the values among school students. The objective of the presenting the paper are the following:

- To analyze the scientific values in science textbook of NCERT of class 7<sup>th</sup>.
- To analyze the psychological values in science textbook of NCERT of class 7<sup>th</sup>.

The present study is based on content analysis method.

The present paper is helpful for society to know more about the human values and also to know how scientific and psychological values can be inculcated through the science subject among the school students.

**Keywords:** implement, inculcate, scientific, psychological

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### Introduction:

“Education is the most powerful weapon through which you can change the world”  
- *Nelson Mandela*

Nelson Mandela referred to two kind of education, Academic Education and Value Education. Value education plays an important role in democratic obligation. The present scenario, where moral values are replete across the globe, the need for value education is slowly gaining recognition.

Value based learning play an important role in helping you make the right decisions. Value education can significantly improve your decision making abilities. Values help in your personality development and character building.

Scientific values follow the process which is called scientific method. The scientific process passes through several stages. It offers a solution to an emerging problem.

Psychological values are used in the process of science teaching is based on the principal of learning by doing through observation. Psychology teachers have to conscious that he should not hurt the honor and ambitions of students. He should fulfill his ambitions and curiosity by giving appropriate directions and affections.



So in the conclusion of above facts we can say that any aspects of our life are not untouched from knowledge and science. Here we can enlighten the facts of NPC 1986 which recognized the importance of science values in national development and daily life.

### Objectives:

1. Critical study of scientific values implied in the science textbook NCERT of class 7<sup>th</sup>.
2. Critical study of psychological values implied in the science textbook NCERT of class 7<sup>th</sup>.

### Methodology:

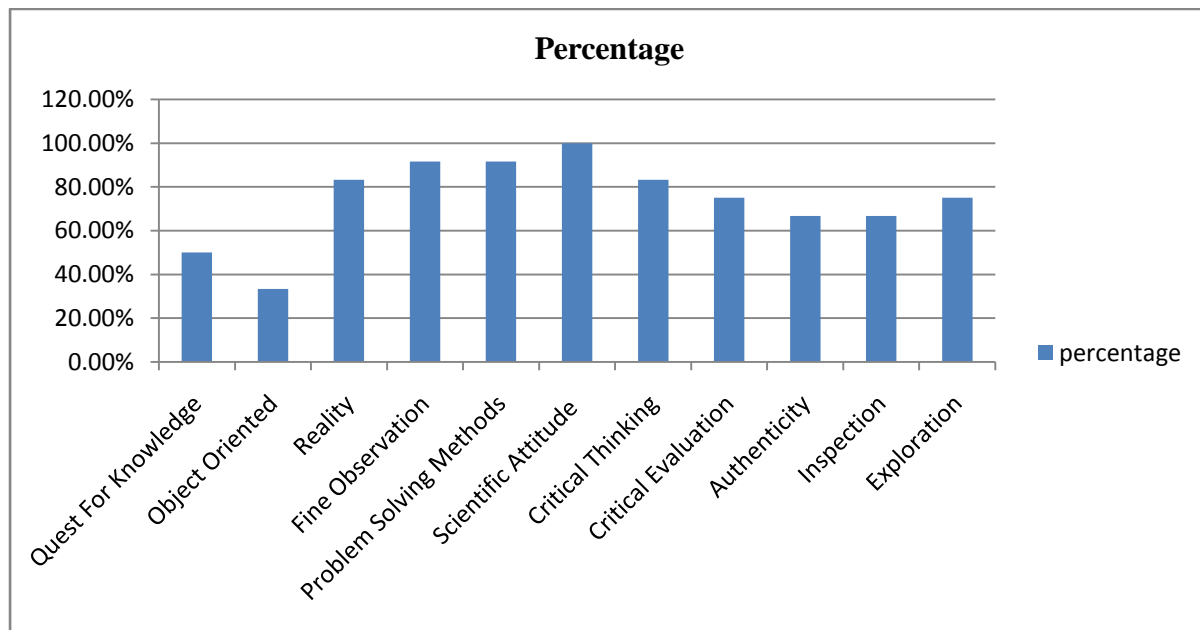
The research design which has been adopted here content analysis method. A self-made content analysis tool is prepared for study.

**Data analysis:** the data is analyzed to study the values like scientific and psychological text book of NCERT of class 7<sup>th</sup> are as follows:

#### INDEX – 1 (Scientific Values)

S.No.	Values	Total	Obtained Frequency	Percentage
1.	Quest For Knowledge	12	6	50.00%
2.	Object Oriented	12	4	33.33%
3.	Reality	12	10	83.33%
4.	Fine Observation	12	11	91.66%
5.	Problem Solving Methods	12	11	91.66%
6.	Scientific Attitude	12	12	100%
7.	Critical Thinking	12	10	83.33%
8.	Critical Evaluation	12	9	75.00%
9.	Authenticity	12	8	66.66%
10.	Inspection	12	8	66.66%
11.	Exploration	12	9	75.00%





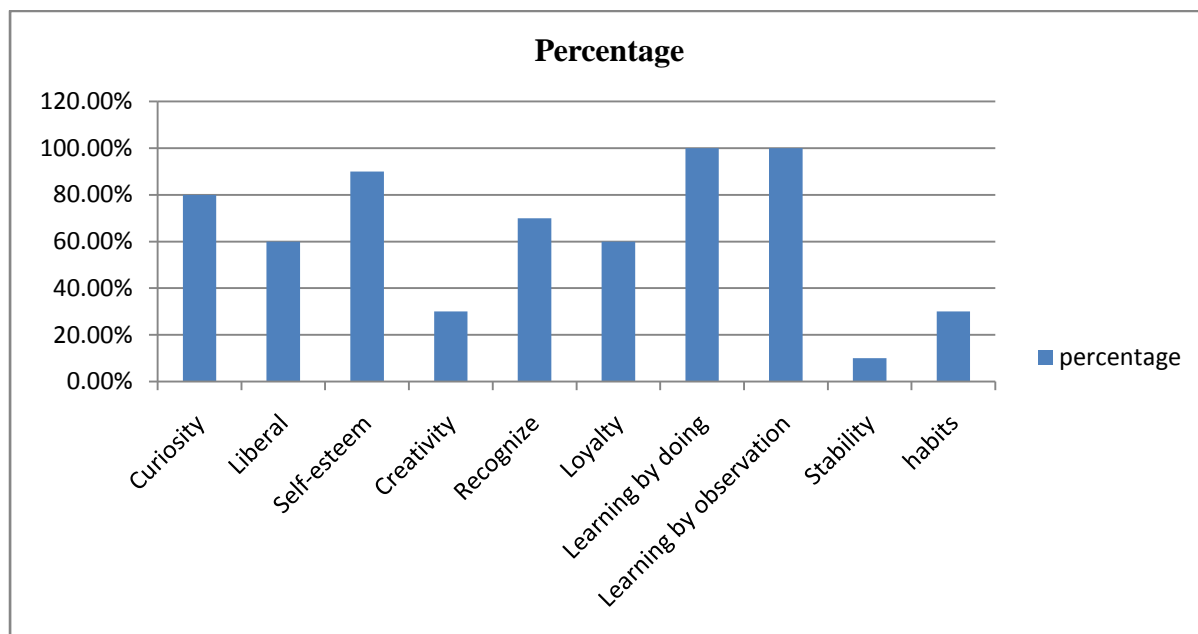
**Interpretation:**

In the above Index 1 the values like reality, fine observation, problem solving, scientific attitude, critical thinking, authenticity, critical evaluation, exploratory are found sufficient in science textbook but the values like quest for knowledge, object oriented are limited.

**INDEX – 2 (Psychological Values)**

S. No.	Values	Total	Obtained Frequency	Percentage
1.	Curiosity	10	8	80.00%
2.	Liberal	10	6	60.00%
3.	Self-esteem	10	9	90.00%
4.	Creativity	10	3	30.00%
5.	Recognize	10	7	70.00%
6.	Loyalty	10	6	60.00%
7.	Learning by doing	10	10	100%
8.	Learning by observation	10	10	100%
9.	Stability	10	1	10%
10.	habits	10	3	30%





### Interpretation:

In the above index 2 the psychological values like curiosity, liberal, self-esteem, recognize, loyalty, learning by doing and learning by observation are sufficient in quality but the values like creativity, habits are very less and the value stability is null.

Result declaration: it was found that the scientific values and psychological values are included in sufficient quantity according to the class 7<sup>th</sup> science textbook of NCERT.

### Conclusion:

On the behalf of the study it can be said that the content of NCERT science textbook has scientific & psychological values in almost all the topics which may be taught while teaching learning process.

### Educational Implications:

- Teacher's acquires the fact the science is not only about facts but also about the values also.
- Teachers will plan their activities strategies after identifying the values regarding the teaching point.
- The values will be developed by teacher through different activities which can be organized by teacher according to the respective topic.
- Different teaching aptitude and attitude will be developed by teachers in students according subject matter.



- Different co-curricular activities can be selected by teachers for students to provide guidance to inculcate the appropriate values.

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