



Illustration of the Process of Action Research with Example

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The process of Action Research can be described in headings:

- i) Title
- ii) Objective
- iii) Hypothesis
- iv) Methodology

Under methodology Sample, Tool, Experimental design, Procedure of data collection and data Analysis have involved in this process.

Title of Action Research:-

While teaching Science to middle class students, teacher observed that some of the students could not solve the given Problem but some could solve the given Problem. Therefore, the teacher thought of doing Action Research to find out the solution of the problem. With reference to the problem the title of the Action Research can be written.

Effectiveness of Activity based Method on the basis of Achievement in Motion in Science of Class VIII students of Govt. sponsored Searsole Raj High School, Raniganj, Paschim Bardhaman, West Bengal.

From the title as given above, one can say that Achievement in Motion in Science is the dependent Variable. This study is to be conducted on Class VIII students of Govt. sponsored Searsole Raj High School, Raniganj, Paschim Bardhaman, West Bengal. The group of Activity based method is the treatment. In this students belong to a Particular school, so the finding can not be extended to other schools of Raniganj. This title is complete as it gives information about the variable group and types of research.

Objective of Action Research :-

Objective must be worded pin pointly so that the teacher gets direction. Related to title the following objective may be written:

“To compare mean score of Achievement in motion in Science of Class VIII students before and after having taught through Activity based

method”.

Hypothesis of Action Research:-

Hypothesis is a tentative solution of a problem. The bases of formulation Hypothesis are Review of related literature and theory. Keeping these bases in mind, one can formulate Hypothesis either in Null Hypothesis Form or Directional / Alternative form. For the above objective the following Hypothesis in the null form may be formulated as:

“There is no significant difference between mean scores of Achievement in Motion in Science of students before and after having taught through Activity Based Method”.

Methodology of Action Research:-

Under Methodology, the teacher should give information about Sample, Tool, Experimental Design, Procedure of Data collection and Data Analysis.

Sample:-

Here purposive sampling technique is used to select the sample for Action Research and it is not the representative portion of the population. From this title it is clear that Action Research is to be conducted on Class VIII students of Searsole Raj High School are taken up for Action Research. It is important to know the characteristics of all the members of the group taken up for Action Research.

Tools:-

For collecting Data one must use appropriate tool. The quality of Data depends on the quality of tool used. Different characteristics of tools are Validity, Reliability, Objectivity, Sensitivity and Usability.

For Action Research, the teacher can develop the tools as per variable. The teacher has to use non-standardized tool to collect Data for Action Research. In the above Action Research Achievement in motion in Science Test will be the tool for the study. The teacher will prepare the test items depends on the subject matter and topic.



Experimental Design:-

Action Research is Experimental in nature and Experimental Design must. It is classified in the three categories such as, Pre-Experimental Design, Quasi-Experimental Design and True Experimental Design. For this Action Research Pre-test - Post-test Single group Design is used. The layout of the design is given below.

Q₁ – Pre-test of variable of the Action Research (Pre-Achievement in motion in Science test)

X – Treatment (Activity based Method) for one period of 40 m. for 20 days.

Q₂ – Post-Test of variable of the Action Research (Post-test-Achievement in motion in Science test).

It is clear from the above layout how Experiment will be conducted in Action Research. Procedure of Data collection:-

The response sheet of each student is to be scored for both *i.e.* Q₁ as well as post-test *i.e.* Q₂. The total scores thus obtained are to be used during Data analysis stage.

Data-Analysis:-

Data are to be analysed with the help of correlated t-test or Paired Sample t-test.

Finally it is found that after the discussion of the Data the learning ability of the students has been increased. This is the finding of this research.