

Action research abstract 2022-23

Name of the Researcher: T.BALASUBRAMANIYAN

Name of the DIET : MAYANUR KARUR.

Title : Enhancing the understanding of IX std students about Plant
Anatomical structure

1. Background of the study: The investigator is a lecturer in DIET, Mayanur, Karur .He used to visit schools of Karur to give on sight support, during the time of his visits to Govt Higher secondary school Ayyermalai, Karur Dt. She met the co-investigator handling IX standard. She discussed the performance of the students and found the difficult in understanding the topic. “Enhancing the understanding of IX std students about plant anatomical structure ” as the concept cannot be taught by giving students more knowledge about for understanding of the plant anatomical structure. After discussion the investigator planned to do an action research on this topic for plant anatomical sturcture. To confirm the problem the investigator planned to differ.

2. Idendification of the problem: The investigator has visited and observed many schools in Kulithalai Block. But most of the students are very poor to about internal structure of plants. Because of previous classes not detailed structure.

3. Need and signification of study: The school teacher do not engage the people in concerned activity in related to the concept “Enhancing the understanding of IX std students about plant anatomical structure”.Hence the preparation of hands on activity on “Enhancing the understanding of IX std students about plant anatomical structure ” will improve the understanding of “Enhancing the understanding of IX std students about plant anatomical structure ”.

4. Objectives of study:

- To analyze the existing level of plant anatomical structure.
- To enhance the internal studies about leaf, stem. root.
- To develop knowledge about plant structure.
- To find out level of attainment plant structure.

5.Action hypothesis: If the concept “Enhancing the understanding of IX std students about plant anatomical structure” was through activity used in the class room teaching. They would understand the concept thoroughly.

6.Methodology: Experimental Method.

a.Design- Experimental Design

b.Sample- 9 th standard of Govt Higher Secondary School Ayyarmalai.

c.Tool-Hands on activity

d.Interventional strategies and materials- Real plant root,stem,slide,microscope,knife,saffranin.

e .Statistical Techniques-Mean,Average.

7.Findings: The analysis made the following predictions

The lowest and highest score of pre-test was 30 and 65 where as post –test was 45 and 75.

The average pre-test scores of the students was 26% and the average post –test scores was 47.5%. The children got the percentage mark due to new activities implemented by these investigators.

8.Termination of Action Research: Pre test mean score was 26% After treatment Post test was conducted. The post test mean score was 47.5% . Hence the objectives of this action research were fulfilled.

9.Suggestions and Recommendation: Hands on activity of plant anatomy section to plants of to learning study executed in this study had proved there was an improvement in understand the concept.

10.Educational Implications: The Innovative practice the demonstration methods, models, pictures, chart, video, colour print photograph and hands on activity of plant anatomy section to plants of to learning study executed in this study had proved there was an improvement in understand the concept.

❖ New learning (Activities) for the Understanding the is more effective concept for learners.

- ❖ The students should a better performance in hands an activity methods by individual activities in to specialty developed model.

11. Conclusions:

- ❖ Students showed much interest in learning the anatomy structure of lant stem and roots(parenchyma,collenchymas,etc.) activity based understanding the concept.
- ❖ Individuality could be seen among the students.
- ❖ Teaching difficulty was overcome by taking the students to the hands on activity, and models.
- ❖ Students became understanding the concept of anatomy of plant structure with laboratory activity.
- ❖ Interaction among students and teachers was high.
- ❖ Students were bold enough to clarify their doubts.
- ❖ Students were very interestingly observed the activities.
- ❖ Sense of discipline could be observed among the students.
- ❖ Students were entertained and to the class room because activity based learning.

Photos for Pretest and activity:



