

ACTIVITY NO. – 7: ARE LEAVES FOOD FACTORIES OF THE PLANT ?

Subject	Science
Class	VI
Chapter/Unit	Getting to know plants
Topic	Leaves
Time	40 mins
Nature of Activity	Individual

What will I learn?(Learning Outcome):

To verify that leaves prepare their food in the presence of sunlight and a green coloured substance present in them

Skills:

Applying, Analyzing, Evaluating

What I have to do ?

To show that leaves prepare their food in the presence of sunlight and a green coloured substance present in them.

What I require ?

Leaf ,spirit,beaker,test tube ,burner,water,watch glass and iodine solution

What do I need toknow ?

To prepare food, leaves also use water and carbon dioxide in the presence of sunlight and chlorophyll. This process is called photosynthesis.

Teacher's Activity: Teacher will

- (1) explain the concept of photosynthesis
- (2) divide the students in small groups.
- (3) arrange the apparatus and guide the students to perform the activity.

How will I proceed ?

Student's Activity:Students will :

- (1) take a leaf in a test tube and pour spirit to completely immerse the leaf
- (2) now place the test tube in a beaker half filled with water.

- (3) heat the beaker till all the green colour from the leaf comes out into the spirit in the test tube.
- (4) take out the leaf carefully and wash it in water.
- (5) place it in a watch glass and pour few drops of iodine solution over it.

What have I observed :

S.No.	Colour of leaf after putting iodine solution(before the experiment starts)	Colour of leaf after putting iodine solution on it.(after the experiment)
1.		

What have I learnt ?

This indicates the presence of _____ in the leaf.

What am I curious to know ?

Let us find out ,why do we have to add ethanol to test the presence of starch in leaves ?

Let me evaluate myself

Q1. Write the main function of leaves ?

Q2.How are leaves attached to the stem?

Q2.Do all the leaves have petioles?

Q3.How do plants exchange gases with the environment?

Q4. Represent photosynthesis with the help of a chemical reaction.

Q5. Draw the diagram of a leaf .