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Science

6th Grade

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STRUCTURE OF LEAVES AND ROOT

- Take the class on a tour to the school garden or a park nearby
- Ask students to observe the leaves of some plants around them and draw them in their notebook.
- Discuss: are all the leaves of the same size, shape and colour?
- Tell them, today we will learn about the structure of leaves and types of roots.

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OBJECTIVES

- Students are able to understand the structure of leaves
- Students are able to differentiate between two root types

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PRE-REQUISITES

- 2 sheets of paper
- Water
- Potted plant
- Leaf for all students (or ask students to bring a leaf to class)
- Radish/carrot
- Grass (with roots visible)

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PRE-ASSESSMENT

- What is the function of roots?
- What is the function of leaves?

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LEVEL-1 & 2

ACTIVITY:

- The reason why leaves are flat will be understood
- Take two sheets of paper, and crush one of the papers
- Now take some water, and sprinkle it on both the papers
- After sprinkling, open the crushed paper
- It is observed that the crushed paper is only partially wet
- Hence, it is understood that the leaf is flat so that it can absorb maximum sunlight for photosynthesis

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LEVEL-1 & 2

ACTIVITY:

- Bring a plant to the class
- Ask the students to observe the plant
- Question: How are leaves attached to the stem? (students say words like tiny stem, branch, etc.
- Teachers must point out that the part of the leaf by which it is attached to the stem is called petiole.
- The broad, green part of the leaf is called lamina
- Teacher draws the diagram to explain petiole and lamina

LEVEL-1 & 2

ACTIVITY:

- Give a leaf to each student
- Ask them to put the leaf under a white sheet of paper or a sheet in their notebook.
- Hold it in place and with your pencil rub it on the portion of the paper having the leaf below it.
- Question: Did you get an impression with some lines in it? Are they similar to those on the leaf?
- These lines on the leaf are called veins.
- Do you see a prominent line in the middle of the leaf? This is called the midrib.

LEVEL-1 & 2

ACTIVITY:

- Divide students in groups
- Teacher will give each group a carrot/radish and grass (with roots)
- Ask the students to observe the roots carefully and notice the differences
- Ask them to share their observations

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LEVEL-1 & 2

EXPLAIN:

Tap Root	Fibrous Root
The main root is called the tap root and the smaller roots growing from main root are called lateral roots	Plants with roots that do not have a main root. All roots seem similar and these are called fibrous roots

POST ASSESSMENT

1. Draw and label
a) Parts of a leaf
b) Tap root
c) Fibrous root

2. Why do you think the surface of most leaves are broad and flat?

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