

Chapter 7 : Stepping Onto The Plant World

Curricular Goal :

CG-3: Explores the living world around us and its interaction with the inanimate world in scientific terms.

Competencies :

C-3.1: Describes the diversity of living things observed in the natural surroundings, and at a smaller scale.

Learning Outcomes :

1. Classify plants as herbs, shrubs and trees.
2. Differentiate between creepers and climbers.
3. Describe the process of transpiration and photosynthesis.
4. Classify roots as fibrous roots and tap roots.
5. Relate the type of leaf venation and the type of root .

STORY 7: STEPPING ONTO THE PLANT WORLD

A student classifying the picture cards as herbs, shrubs and trees.



In the backyard of school.

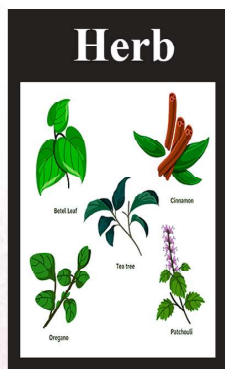


Madam, why are these two plants not standing upright like herbs, shrubs and trees?

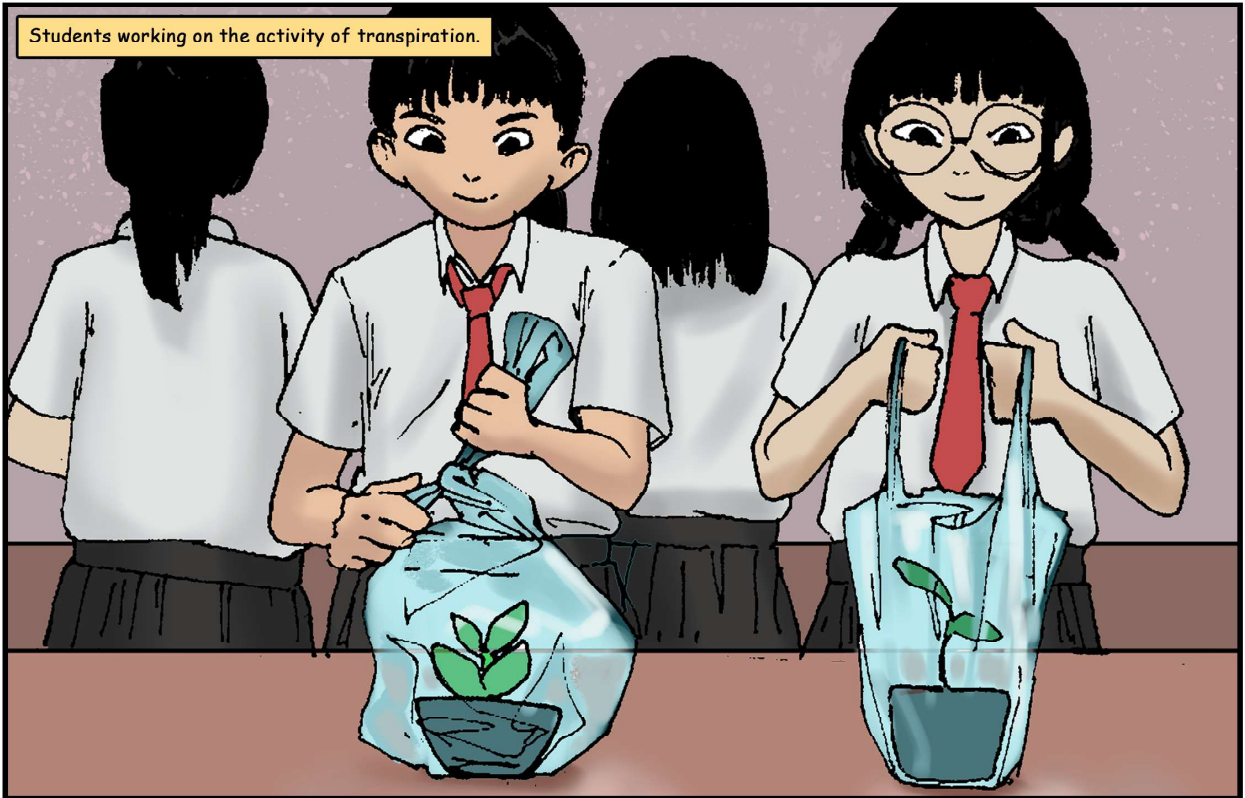


Because their stems are very weak. The plant spreading on the ground is called creeper. The other one that climbs on support is called climber.

Back in the classroom.



Students working on the activity of transpiration.

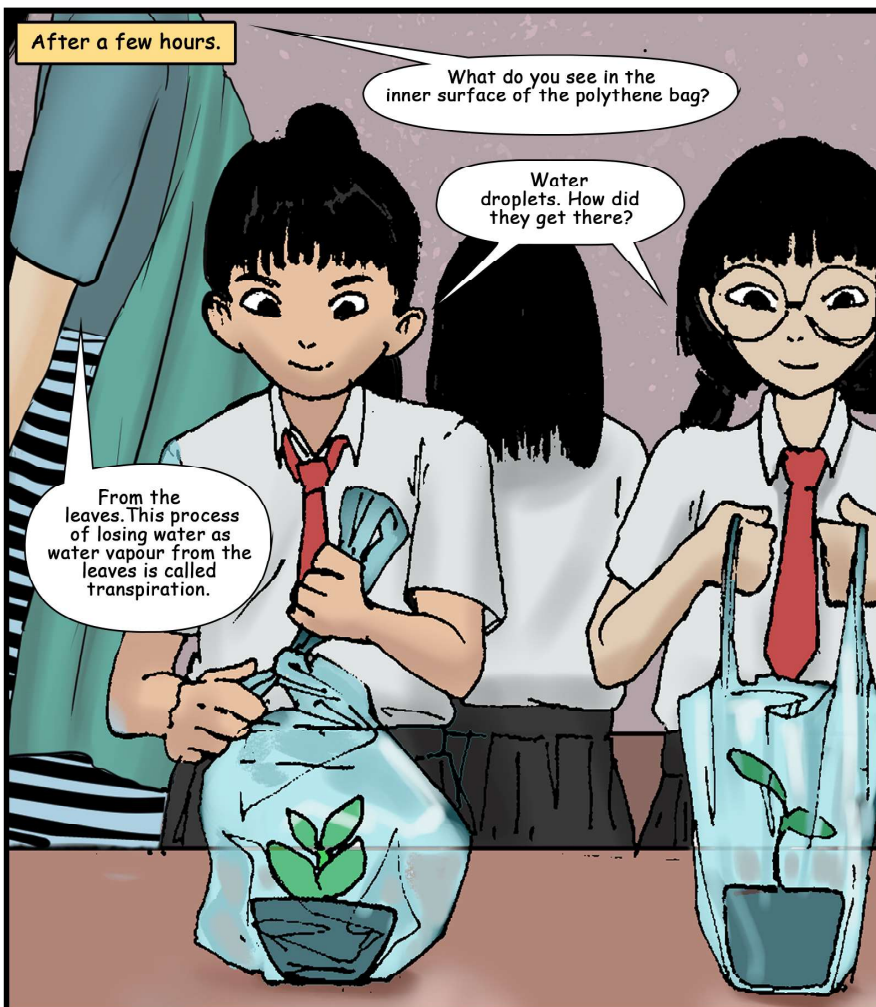


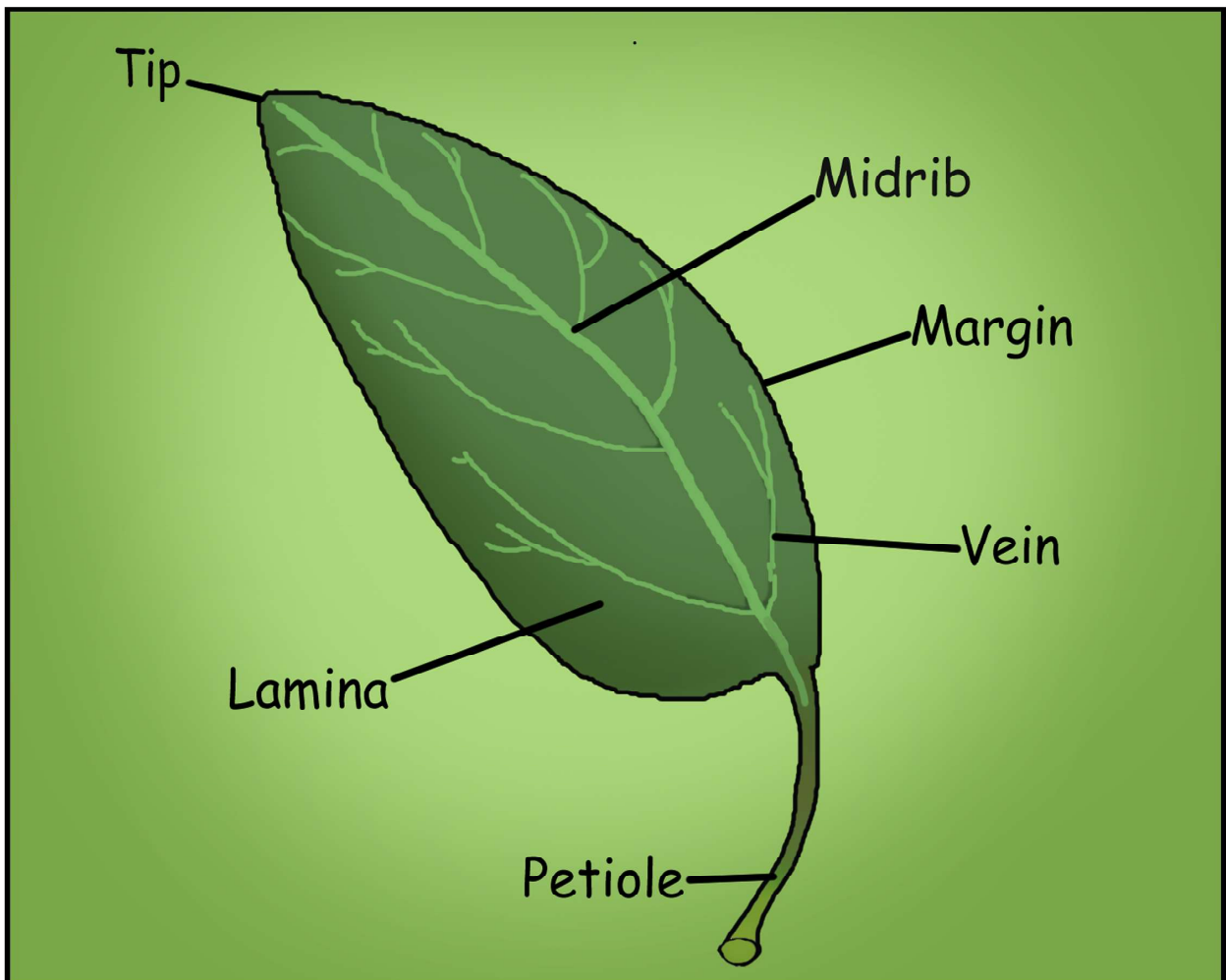
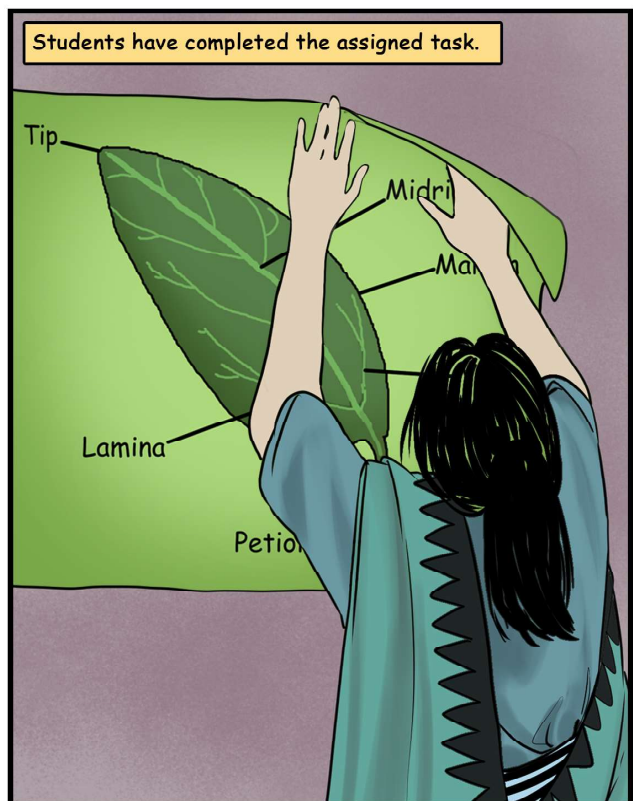
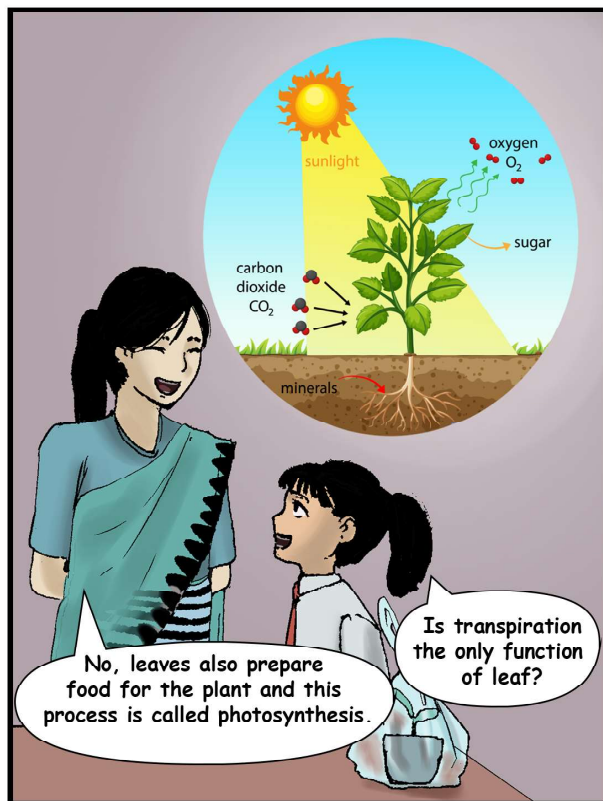
After a few hours.

What do you see in the inner surface of the polythene bag?

Water droplets. How did they get there?

From the leaves. This process of losing water as water vapour from the leaves is called transpiration.

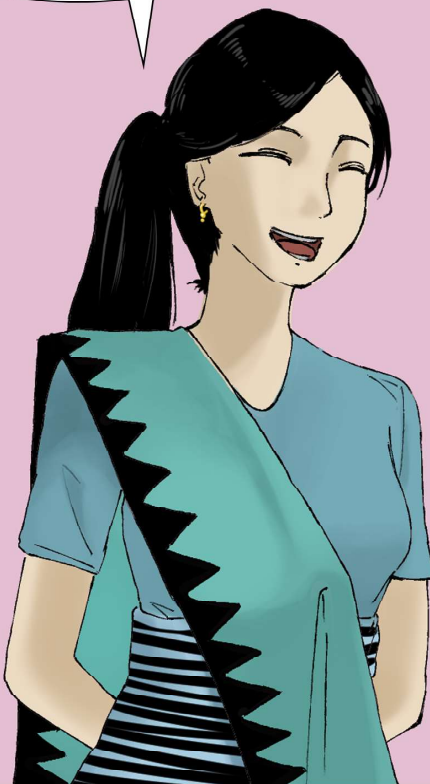




Leima and Akhup observed the plants to see if there is any relationship between leaf venation and type of root.

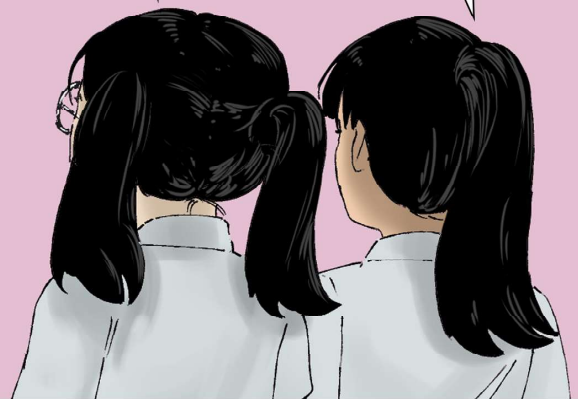


What are your observations?



Those plants with tap roots have leaves with reticulate venation.

Plants with fibrous roots have leaves with parallel venation.



Students have learned an important lesson about various plants.

Activity

Solve the riddle given below

- a. My name is Mint, and I am much smaller than you. My stem is soft, but I can stand upright. In which group of plants do I belong?
- b. My name is Rose. I am about your size. My stem is hard. In which group of plants do I belong?
- c. My name is Strawberry. I can't stand upright because my stem is very weak. So, I grow along the ground. In which group of plants do I belong?
- d. My name is Pea. My stem is also weak. I need support to grow upright. In which group of plants do I belong?