

STEPPING STONE
SCHOOL (HIGH)
CLASS: 6

Subject: BIOLOGY

Date: 01/05/2020

Topic: PLANT LIFE (THE LEAF)

Time Limit: 30 MINS

Worksheet No.:3

[Read the notes given below. Then copy the questions and solve them on a sheet of paper date wise. Keep the worksheets ready in a file to be submitted on the opening day.]

Q1) Why the leaves of cactus plants are modified into spine?

Q2) Give two examples of plants in which the leaves are modified into leaf tendril?

Q3) State the functions of the following:-

Leaf tendril -----

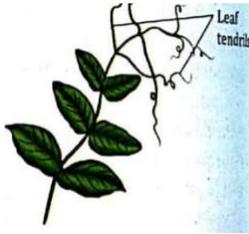
Leaf spine -----

Q4) What are insectivorous plants? Give two examples of insectivorous plants.

Q5) Write a short note on vegetative propagation in plants.

Q6) What are scale leaves?

LEAF MODIFICATION



Leaf tendril

It is a

modification of the leaf which gets modified into thin, thread like coiled structure. It provides suitable support in climbing of weak stems. Ex:- Sweet

pea



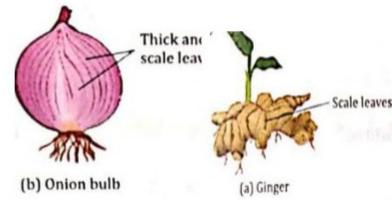
a) Pitcher plant



Leaf spine

Leaves of certain

desert plants such as cactus get modified into spines. This reduces loss of water by transpiration and also protect the plants from grazing animals.



Onion bulb & Ginger

The scaly leaves are thin and dry structures and they take up the function of protecting the axillary buds as in ginger. In onion they store food prepared by the plant and become thick and fleshy.



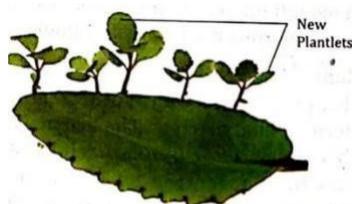
(b) Venus flytrap



(c) Bladderwort

MODIFICATION OF LEAVES IN INSECTIVOROUS PLANTS

Insectivorous plants such as pitcher plant, Venus flytrap and Bladderwort are adapted to grow in soils which do not have enough nitrogen. That is why they are modified to trap the insects although they have chlorophyll in their leaves and are capable of photosynthesis.



VEGETATIVE PROPAGATION IN PLANTS

Leaves of certain plants such as Bryophyllum and Begonia produce adventitious buds on their leaf margin. When the leaves of such plants fall on moist soil, these buds develop into new plantlets. The leaves of such plants are thick and fleshy thus they provide enough water to the new plantlets.

