

Transpiration

Class :VI

Subject:Science

Duration – 2hours

Nature of activity : Group

Learning Outcome :Students will be able to **discover** that plants also excrete .

What I have to do ?To show that water is given off from plants.

What I require ?A healthy potted plant, two polythene bags and vaseline

What do I need to know?Leaves are known as the food factories of the plant.

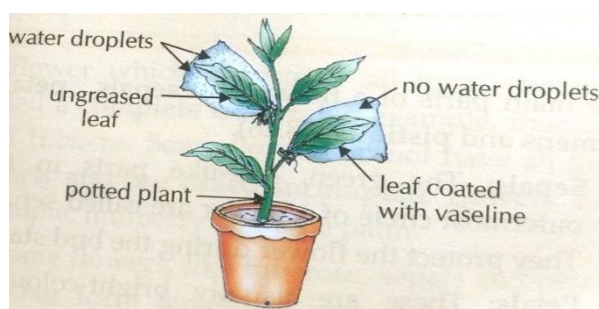
Teacher's Activity: Teacher will

- (1) divide students in large groups
- (2) take a healthy potted plant.Water it.

How will I proceed ?

Student's Activity:Students will :

- (1) cover a leaf of the plant with vaseline.
- (2) take a polythene bag ,label it with letter (A)and tie it around the leaf.
- (3) cover another leaf with another polythene bag (B).(Do not apply Vaseline on this leaf)
- (4) keep the potted plant in sunlight for few hours .
- (5)Note down the observations.



What have I observed :

S.No.		Polythene bag (A) tied around leaf covered with vaseline	Polythene bag (B) tied around leaf without vaseline
1.	Appearance of the droplets on the polythene bags (Yes/No)		

What have I learnt ?Water is given out by the leaves in the form of water vapour through the stomata by the process of _____.The leaf covered with Vaseline could not give out water because the stomata were _____by Vaseline.

What I would be interested / curious about ? : Does temperature plays a role in the rate of transpiration ?

Extended learning worksheet

1.Solve the riddle given below:

(a) 'I have a green tender stem and i am much shorter than you.Who am I ?

- _____

2.On the basis of the above activity,answer the following questions.

(a)Which process is demonstrated in the activity ?

(b)When will this activity show better results-on a bright sunny day or a cloudy day ?

(c)Mention any one precaution you must take, while performing this activity.
