

Water Cycle Experiment: Transpiration

Some of the water that infiltrates the ground is absorbed by the roots of plants. Plants lose this water through tiny holes called stomata on the underside of their leaves, this process is called transpiration.

Carry out this experiment to witness how much water is transpired through the leaves of plants.

You will need:

- Clear plastic bags
- Elastic bands
- A thermometer

Now you need to:

1. Select a range of different garden plants/bushes/trees.
2. Using an elastic band, tie the plastic bag firmly around the leaves on the plant/bush/tree. Be careful not to disturb any habitats.
3. Check the bag daily over a week to see what happens, recording the weather conditions and temperature on each day.

QUESTIONS:

Where there differences in the amount of water that transpired from the different type of leaves? _____

Did different weather conditions on different days affect the amount transpired? _____