

# Water Movement in Trees

## **Experiments:**

To measure water loss through a leaf.

## **Materials:**

### **You will need:**

- 1 twig with leaves
- Oil
- 1 measuring jug
- Water

## **Method:**

1. Place the twig into the measuring jug.
2. Fill the measuring jug with 500ml of water.
3. Pour a thin layer of oil (about 1cm thick) onto the water.
4. Record and observe the results over 5 days.

## **Result:**

Day 1 - Day 5

The water level gradually dropped.

## **Conclusion:**

Because the oil was on top of the water, the only place the water could go was out through the leaf. This shows that water can move through the branch of a tree and through leaves.

### ***Find out more!***

Inside plants are special vessels that transport food and water up and down the plant. These vessels are called Xylem and Phloem vessels. The Xylem vessels transport materials from the roots to the leaves and the Phloem vessels transport food made by the leaves to the rest of the plant.