



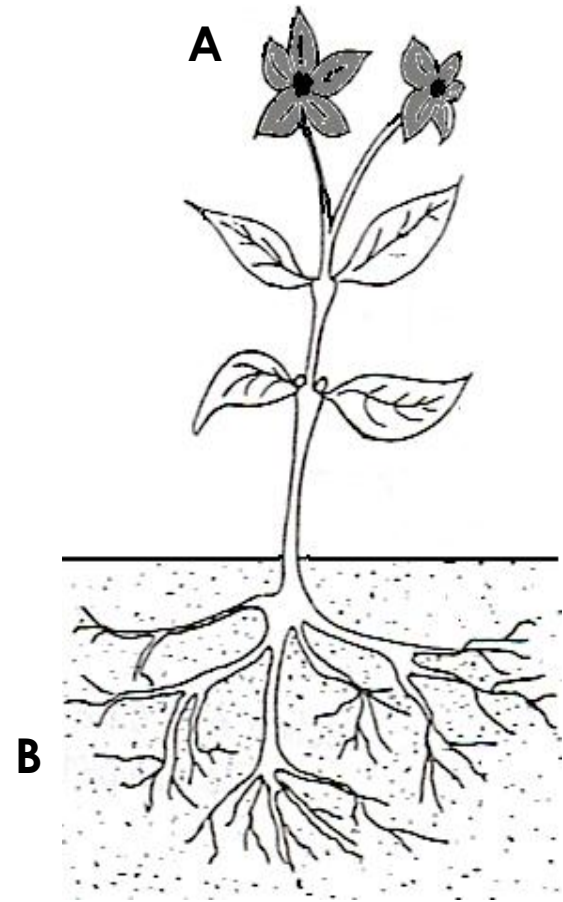
Structure and  
transport of  
flowering plants  
– exam  
questions

# 2012 - Higher

- Give the function of each tissue.
  1. Xylem
  2. Phloem

# 2012 - Ordinary

- o **Name** the parts of the plant labelled **A** and **B**.

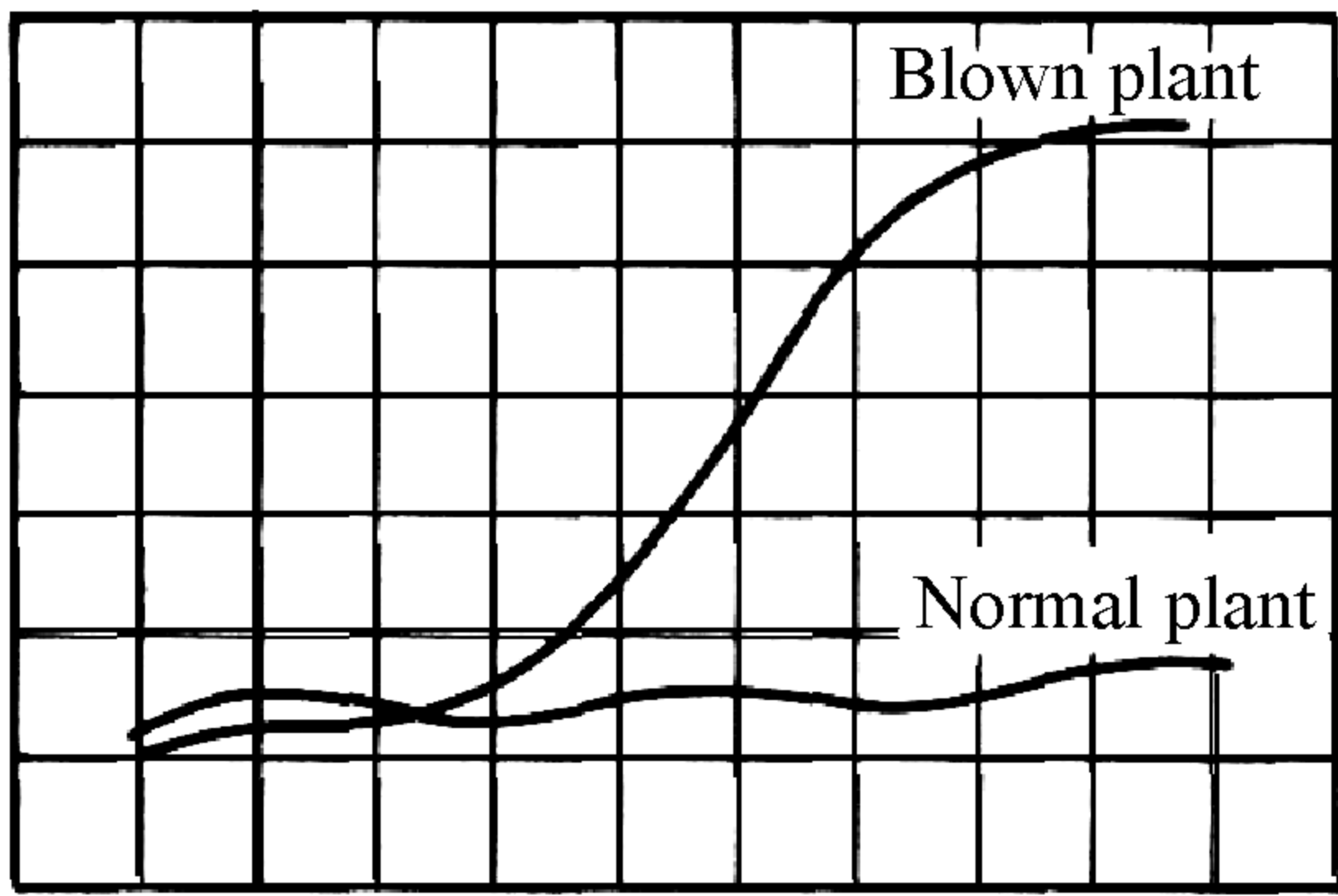


# 2011 - Higher

- Water vapour leaves plants through pores in their leaves into the atmosphere. What is this loss of water by plants called?

- A pupil did an experiment to investigate this loss of water by plants. The apparatus that she used is shown in the diagram.
- The rate at which the water level fell (water loss) in the measuring cylinder was measured at regular time intervals, first for a plant without the hair dryer (normal plant) and then for a plant with a hair dryer blowing warm air over the leaves (blown plant).
- The pupil used the data obtained to draw the graph below.

Rate of fall of water level



Blown plant

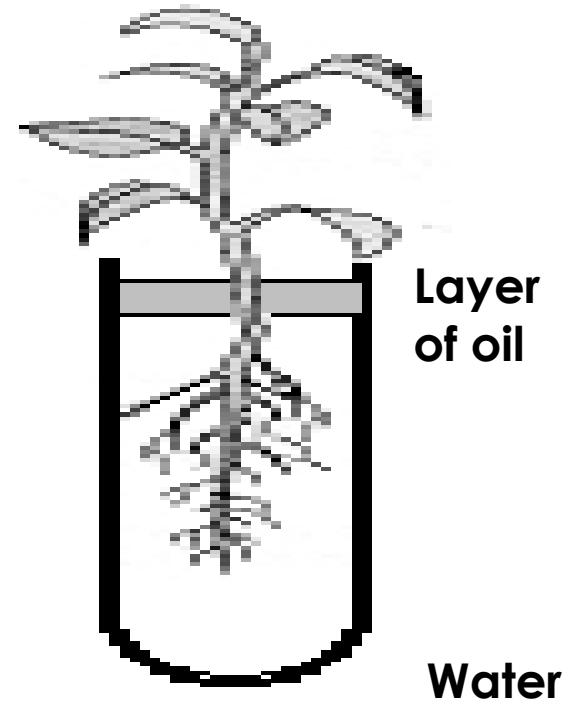
Normal plant

Time



- Comment on the rate of water loss by the 'normal plant'.
- Examine the graph and comment on the rate of water loss by the 'blown plant'.
- What **two factors** were different for the 'blown plant'?
- Name the tissue that transports water up the plant from roots to leaves.

- What would you expect to happen to the level of water in the test tube after a few days?
- Which part of the plant takes in the water?
- The layer of oil is used to prevent \_\_\_\_\_ of water from the test tube.



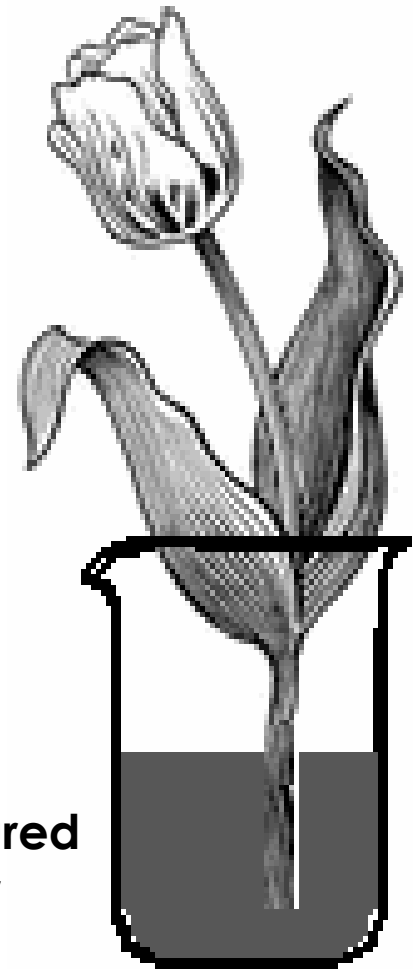
**Condensation**  
**Evaporation**  
**Contamination**



# 2010 - Ordinary

- A white flower was placed in coloured water for a few days as shown in the diagram.
- What effect would you expect this to have on the flower?
- What conclusion can be drawn about the movement of water in plants?

**coloured  
water**

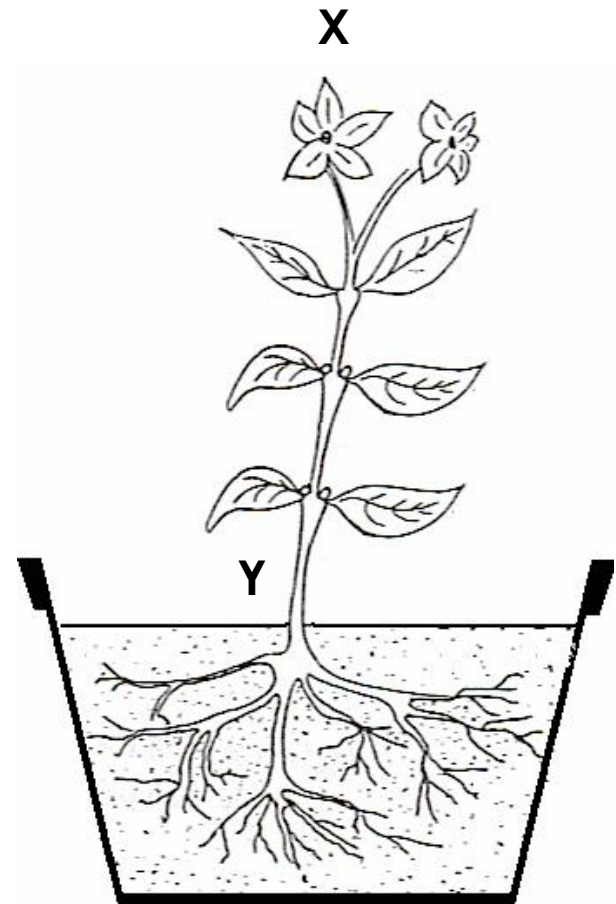


## 2008 - Higher

- Phloem and xylem are plant transport tissues. Name a **substance**, other than water, that is transported in (i) phloem (ii) xylem.

# 2008 - Ordinary

- **Name** the parts of the plant labelled **X** and **Y** in the diagram.



# 2008 - Ordinary

- The **part** of a plant where most food is made is the \_\_\_\_\_ .
- The **chemical** used to test if a plant has made food (starch) is \_\_\_\_\_ .

Root  
Leaf  
Iodine  
Litmus

# 2008 - Ordinary

- Describe, with the help of a labelled diagram, how you would show the **path of water** upwards through a **plant** or a **part of a plant**

# 2006 - Higher

- Water vapour evaporates from cells in the leaves of plants and exits the leaves by way of tiny pores in their leaves. What is this **process** called?
- How would you **test** the drops of liquid inside the plastic bag covering the shoot of the plant shown in the diagram to **show that the drops are water**?



# 2006 - Ordinary

- The plant in the test tube drawn on the right was allowed stand in the laboratory for a few days to investigate the transport of water in the plant.
- Which **part** of the plant takes in water?
- What would you notice about the **level of water** in the test tube after a few days?
- **Why** is it necessary to put **oil** on the surface of the water in the test tube?

