

Plants and Photosynthesis

Lesson 6- Transport in Plants

Biology - Key Stage 3

Miss White



Match up task

Carbon dioxide
Chloroplasts
Water
Leaves
Glucose
Oxygen
Root hair cells

Reactant liquid in photosynthesis
Water enters them by osmosis
Reactant gas in photosynthesis
Gaseous product of photosynthesis
Have stomata on their underside to allow gases to diffuse in and out of them
Organelle which is the site of photosynthesis
Sugar product of photosynthesis



Try this at home

Do not try this without a parent or carer's help. Make sure you clear space to work, pay close attention and be careful.

1. Collect a white flower or a stick of celery
2. Snip the end of the stem at a slight diagonal
3. Put 3 drops of food colouring into a cup
4. Add 100 ml water
5. Place the stem into your dye
6. Leave to one side
7. Observe the results

Ensure your cup/beaker is tall enough or well supported so that it does not topple over

Equipment List

- **Celery/flower**
- **Large cup/beaker**
- **Scissors**
- **Food colouring**
- **Water (100 ml)**



Task

1. What is the name of the two tubes found inside the stem?
2. Which one transports glucose?
3. Which one transports water?



Writing Task

Describe how water, minerals and glucose are transported around the plant.

Key words:

Your answer should include:

- The names of the tissues involved
- Where the substances travel from and to

**xylem, roots, osmosis,
evaporation, phloem,
glucose, minerals,
active transport, water**



Writing task- Answer box

