

Activity 6.6

To see if carbon dioxide is needed for photosynthesis

Skills

A03.1 Using techniques, apparatus and materials
A03.3 Observing, measuring and recording
A03.4 Interpreting and evaluating observations and data

Safety

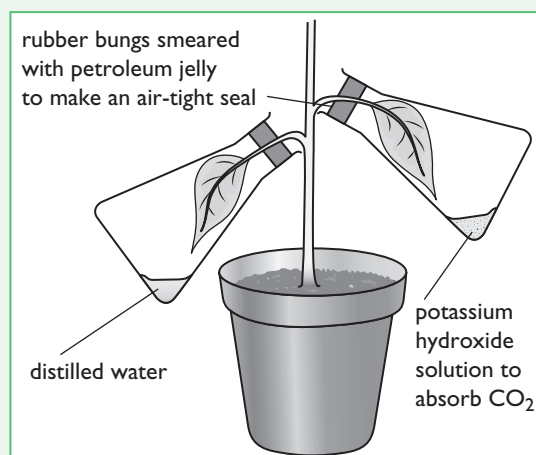
Wear eye protection if available.

Take care with the boiling water.

Alcohol is very flammable. Turn off your Bunsen flame *before* putting the tube of alcohol into the hot water.

Use forceps to handle the leaf.

- 1 Destarch a plant.
- 2 Set up your apparatus as shown in the diagram. Take special care that no air can get into the flasks. Leave the plant in a warm sunny window for a few days.



- 3 Test each treated leaf for starch.

Questions

- A1 Why was potassium hydroxide put in with one leaf and water with the other?
A2 Which was the control?
A3 Why was petroleum jelly put around the bungs?
A4 What do your results suggest about carbon dioxide and photosynthesis?