

Lesson 1

Water Water Everywhere



EXPERIMENT Condensation

AIM

The purpose of this experiment is to help pupils understand that high temperatures water changes into steam and becomes a gas.

YOU WILL NEED

- A kettle with boiling water
- A container e.g. glass or cup
- A large spoon
- Oven gloves for holding the spoon

METHOD

- 1 Fill kettle with water and turn on to boil water. Put on a pair of oven gloves.
- 2 Place a empty glass under the kettle spout.
- 3 When steam appears, hold a large cold spoon over the kettle spout and directly under the empty glass. Tiny drops of water should drip off the cold spoon and into the glass

RESULTS

As water boils, steam escapes through the spout. It forms as water vapour as it meets the cold air outside. Tiny drops of liquid water condense from the vapour and join together until they are big enough for you to see as clouds of steam. If you hold a large, cold spoon in the path of the steam, the water vapour will condense and drip off into the glass or cup.