

INTERNATIONAL GCSE SCIENCE (SINGLE AWARD)

ACTIVITY 2 - CHEMISTRY

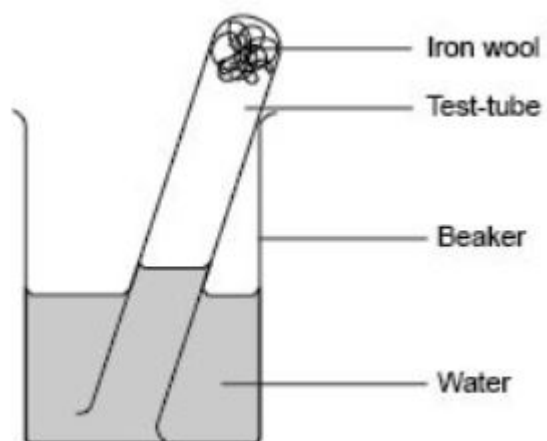


How much air is used up during rusting?

Class practical

Students set up **iron** wool to **rust** in a test tube full of **air** inverted in a beaker of water. As the iron wool reacts, rusts and removes the **oxygen** from the air, water is drawn up the tube. By observing the change in the volume of air in the tube, the **percentage** of oxygen in the air can be found.

Procedure



- a** Put about 3 cm depth of iron wool into the test tube and wet it with water. Tip away excess water.
 - b** Put about 20 cm³ water into the beaker. Invert the test tube and place it in the beaker of water (see diagram). Measure the length of the column of air with the ruler.
 - c** Leave for at least a week.
 - d** Measure the new length of the column of air, taking care not to lift the test tube out of the water.
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Credits

This Practical Chemistry resource was developed by the Nuffield Foundation and the Royal Society of Chemistry.

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