8.2 IDENTIFICATION OF COMMON GASES

Test for hydrogen

Burning splint held at the end of the test tube of the gas

Hydrogen will burn rapidly and make a squeaky pop sound

Test for carbon dioxide

Bubble the gas through limewater (aqueous calcium hydroxide)

Carbon dioxide makes the limewater turn cloudy

Test for oxygen

Insert a glowing splint into the test tube of the gas

Oxygen will cause the splint to relight

Test for chlorine

Put damp litmus paper into a test tube of the gas

Chlorine will bleach the litmus paper, making it turn white

AQA

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