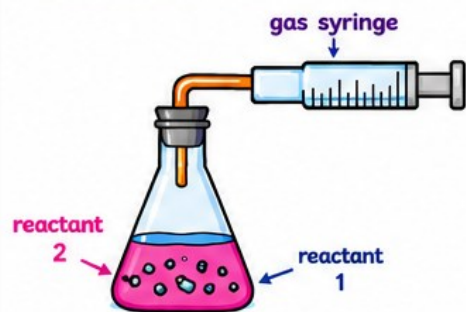


Measuring volume of gas produced

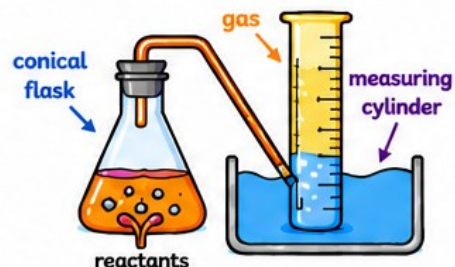
Measure volume of gas at regular intervals.

Technique 1 - Syringe



Measure volume of **INSOLUBLE** gas at regular intervals over water.

Technique 2 - Over water



Gas Tests

1. Hydrogen

Burns with a **POP**.



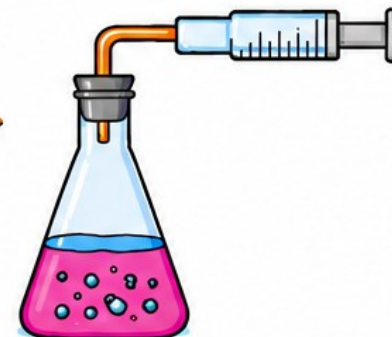
2. Oxygen

Relights a **glowing splint**.



3. Carbon Dioxide

Turns **lime water cloudy**.

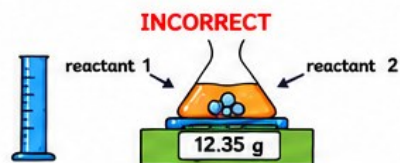
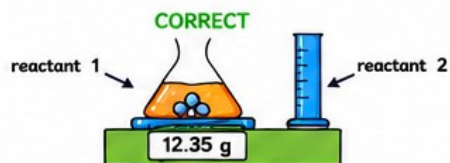


Measuring mass of reactants lost

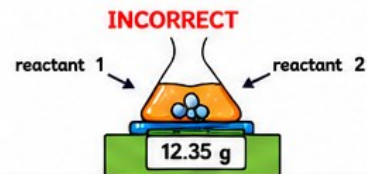
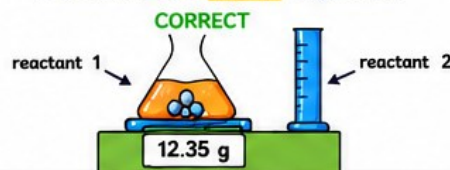
Measure mass at **start** & at **regular intervals** in grams.



The starting mass measurement should include **ALL** reactants.



The starting mass measurement should be taken **BEFORE** reactants are **added** together.



Over Water

Water can **ONLY** be used if gas is **insoluble**.

If gas is **soluble**, gas must be collected in the **air**.

If gas is **soluble**, a coloured gas can be collected over air.

When the gas is **more dense**, measuring cylinder is **upside down**.

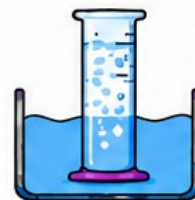
When the gas is **less dense**, measuring cylinder is left **upright**.

Gas insoluble in water
More dense gas



measuring cylinder
upside down

Gas soluble in water
More dense gas



measuring cylinder
upright

Gas insoluble in water
Less dense gas



measuring cylinder
upright in tub

Gas soluble in water
Less dense gas



measuring cylinder
upside down