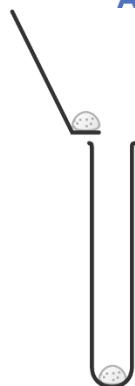


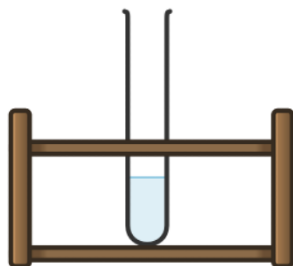
# Integrated Instructions

**Aim:** To compare the thermal stability of various metal carbonates through heating

1. Add one flat spatula measure of the first carbonate to the first boiling tube.

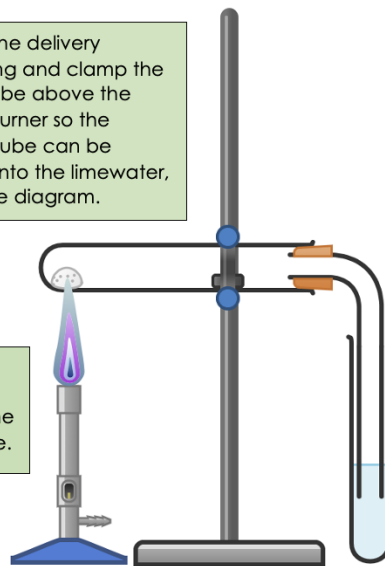


2. Add 2 ml of limewater to a test tube and place this in a stable test tube rack.



3. Insert the delivery tube/bung and clamp the boiling tube above the Bunsen burner so the delivery tube can be inserted into the limewater, as per the diagram.

4. Use the Bunsen burner to heat the metal carbonate at the end of the boiling tube.



5. Record on your results table any observations about what has happened to the limewater, the metal carbonate, and how quickly.

6. When you stop heating, immediately remove the delivery tube from the limewater to avoid suck-back.

7. Repeat the above steps with the other metal carbonates.



8. When the experiment has finished, wash your hands thoroughly.

END

Carbonate	Initial Colour	Colour After Heating	Gas Evolved	Ease of Decomposition
Potassium carbonate				
Sodium carbonate				
Zinc carbonate				
Lead carbonate				
Copper carbonate				