## **CHANGING STATE**

Solids, liquids and gases are called the three states of matter. Materials can be changed from one state to another by heating or cooling.

## Heating

- If ice (solid) is heated, it changes to water (liquid). This change is called melting.
- Water (liquid) can change to water vapour (gas).Hitras proubled evaporation.
- If water (liquid) is heated until it boils, it changes to water vapour (gas) very quickly. Water boils at 100°C.

## Cooling

- If water vapour (gas) is cooled, it changes to water (liquid). This change is called **condensing**.
- If water (liquid) is cooled, it changes to ice (solid). This change is called freezing. Water freezes at 0°C.

## **FEATURES**

- Solids hold their shape. (Salt, sand and sugar are tiny solids so they pour like a liquid but they pile up and are nit wet.)
- Liquids form a pool not a pile!
- Gases escape from an unsealed container and fill the entire volume of space.

