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). This is called

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.

