### 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.

