Particles and changes of state

Glossary

boiling point – the temperature above which a liquid becomes a gas

change of state – the process of change from one state of matter to another

condensation – the process of change from a gas into a liquid
to **condense** - verb

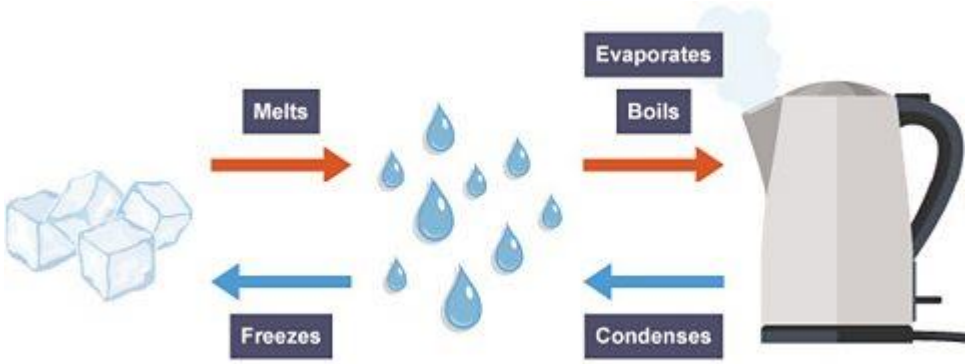
evaporation – the process of change from a liquid into a gas
to **evaporate** - verb

freezing – the process of change from a liquid into a solid
to **freeze** - verb

freezing point – the temperature below which a liquid becomes a solid – for water this is 0°C

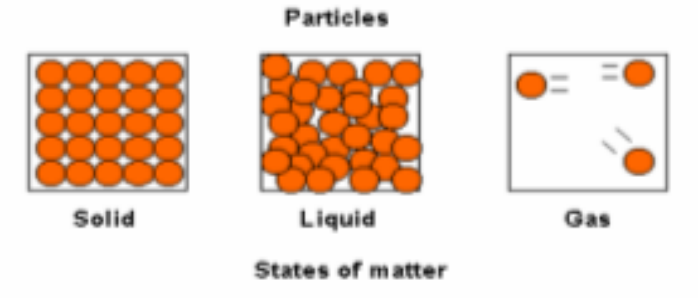
gas – one of the three states of matter. Gases move to fill any available space. The particles in a gas are very far apart from each other and move freely

Insulate: materials used to keep the temperature the same. Materials can be ranked as poor or good. These materials make it more difficult for thermal energy to 'escape'.

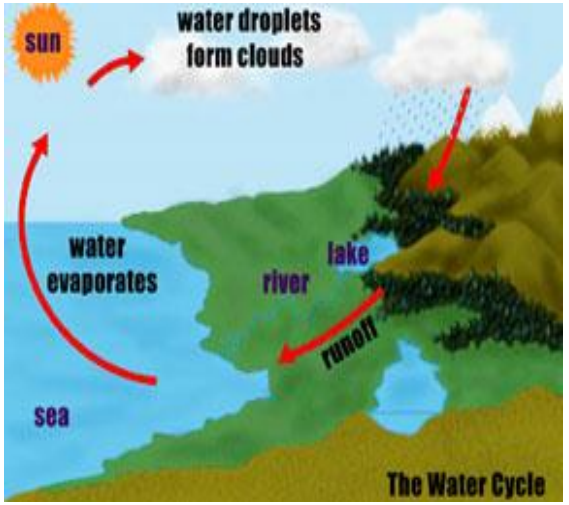


Changing State

Chocolate changes state. Melted chocolate will **solidify** if left in a cool place – this is called **solidification or freezing**



Water changes state



liquid – one of the three states of matter. In a liquid the particles are not as close together as in the solid form. Liquids can be poured and take on the shape of the container they are placed in

melting – the process of change from a solid into a liquid
to **melt** - verb

melting point - the temperature above which a solid becomes a liquid

particles-almost everything is made of these; they are very small

solid – one of the three states of matter. Solids keep their shape. The particles of a solid are very close together

solidification – the process of a liquid hardening to form a solid
to **solidify** - verb

states of matter – all material exists in three states – **solid, liquid and gas**

thermal Conductor: these materials allow heat to pass through easily. Can be ranked as poor or good.

Thermometer- a piece of equipment used to measure temperature

water cycle – the cycle of events that occur naturally in the weather systems of the Earth where water moves through its three states