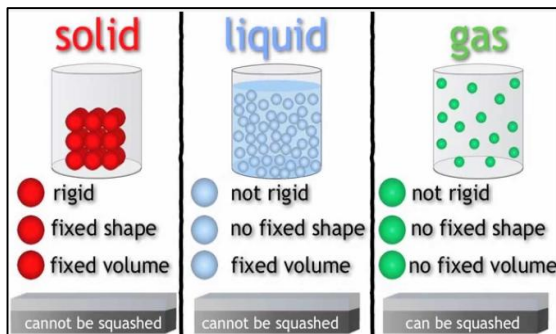


# States of Matter

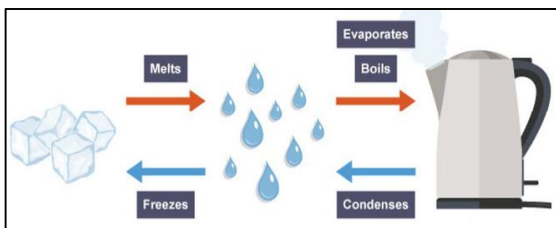
Year 4



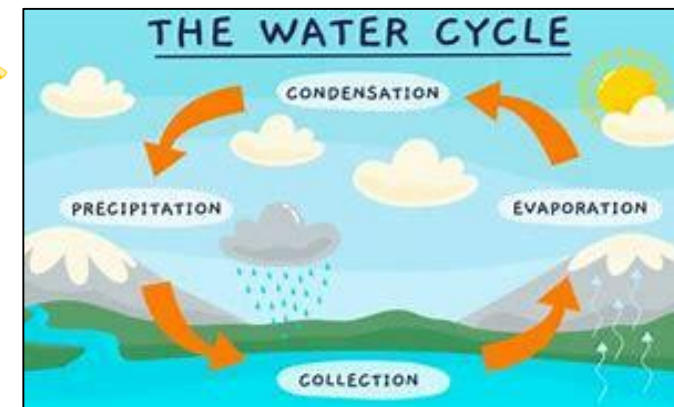
Solids, liquid and gas

## Key 3

- Compare and group materials together, according to whether they are solids, liquids or gases.
- Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C).
- Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.



Change of state



The water cycle

## Key Vocabulary

<b>Solid</b>	A solid substance or object stays the same shape whether it is in a container or not.
<b>Liquid</b>	A substance which is not solid but which flows and can be poured, for example water.
<b>Gas</b>	A substance like air that is neither liquid nor solid and burns easily. It is used as a fuel for cooking and heating.
<b>Heating</b>	Raising the temperature of something.
<b>Cooling</b>	Reducing the temperature of something.
<b>State change</b>	A physical change in matter.
<b>Melting</b>	The action of changing from a solid to a liquid as the temperature is raised.

<b>Freezing</b>	Water changing to a solid at 0 degrees.
<b>Melting point</b>	The temperature at which a solid will melt.
<b>Boiling</b>	The point in which a liquid is heating until it becomes a gas.
<b>Boiling point</b>	The temperature at which a liquid boils and turns to vapour.
<b>Evaporation</b>	The process of turning liquid into vapour.
<b>Condensation</b>	The process of changing from a gas to a liquid or solid state.
<b>Temperature</b>	The degree of heat.
<b>Water cycle</b>	The continuous movement and interchange of water between its three phases (solid, liquid, and gas) in the Earth's atmosphere.