

Year 4 - States of Matter

What should I already know?

- There are 3 different states of matter.
- Water exists in different forms.
- We can change the form of water by doing different things to it.
- We can measure temperature using a thermometer.

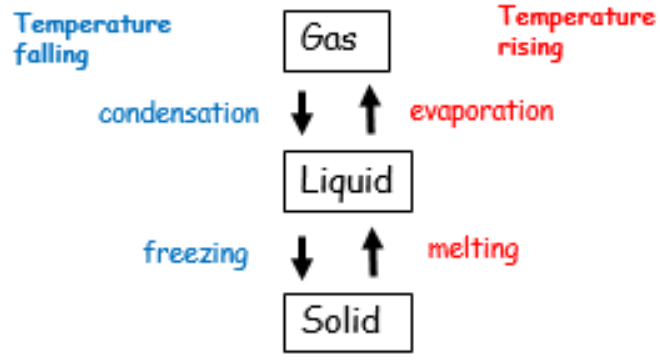
Key Vocabulary

States of matter	The ways that something can exist. It can either be solid, liquid or gas.
Particles	A tiny portion of matter. All things are made up of particles
Temperature	The amount of heat present in something measured in Celsius.
Water Cycle	The processes by which water circulates between land, oceans and air.

Changing between states of matter

Melting	The process of changing a solid into a liquid. E.g. Ice melting into water.
Evaporation	The process of changing a liquid into a gas. E.g. Water boiling and turning to steam.
Condensation	The process of changing a gas into a liquid. E.g. Steam cooling and turning back into water.
Freezing	The process of changing a liquid into a solid. E.g. water freezing and turning to ice.

Solid		A solid can hold its shape for example, water in solid form is ice. Particles are tightly packed together.
Liquid		A liquid flows or runs and it can't be squeezed or stretched. Particles are not as closely packed and can move more freely.
Gas		A gas can flow, and does not have a fixed shape. Particles are widely spaced apart and move around very freely.



Water Cycle

Transpiration - the process of water leaving plants by evaporation.

Precipitation - the process where water vapour/moisture falls from clouds in the form of rain, sleet or snow.

