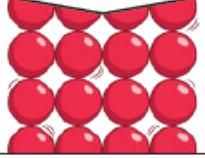
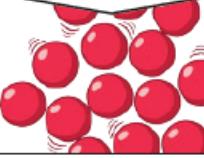
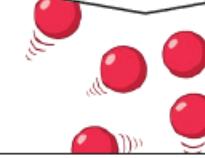


## Key Knowledge

There are three states of matter.

Solid	Liquid	Gas
		

Particles in a **solid** are close together and cannot move. They can only vibrate.

Particles in a **liquid** are close together but can move around each other easily.

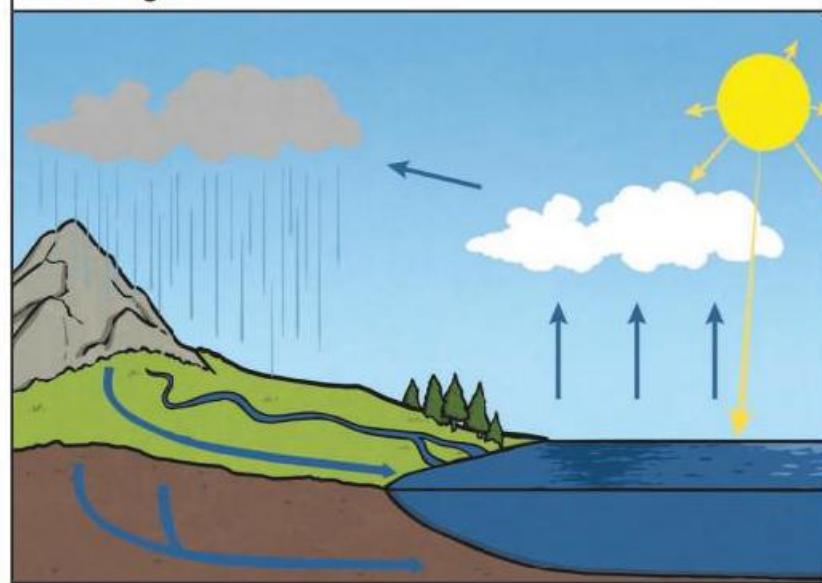
Particles in a **gas** are spread out and can move around very quickly in all directions.

# States of Matter

## The water cycle

- Water from lakes, puddles rivers and seas is **evaporated** by the sun's heat, turning it into **water vapour**.
- This **water vapour** rises then cools down to form water droplets in clouds (**condensation**).
- When the droplets get too heavy, they fall back to the earth as rain, sleet, hail or snow (**precipitation**).

Condensation and evaporation occur within the water cycle.



## Key Vocabulary

<b>states of matter</b>	Materials can be one of three states: <b>solids</b> , <b>liquids</b> or <b>gases</b> . Some materials can change from one state to another and back again.
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<b>solids</b>	These are materials that keep their shape unless a force is applied to them. They can be hard, soft or even squashy. <b>Solids</b> take up the same amount of space no matter what has happened to them.
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<b>liquids</b>	<b>Liquids</b> take the shape of their container. They can change shape but do not change the amount of space they take up. They can flow or be poured.
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<b>gases</b>	<b>Gases</b> can spread out to completely fill the container or room they are in. They do not have any fixed shape but they do have a mass.
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<b>water vapour</b>	This is water that takes the form of a <b>gas</b> . When water is boiled, it <b>evaporates</b> into a <b>water vapour</b> .
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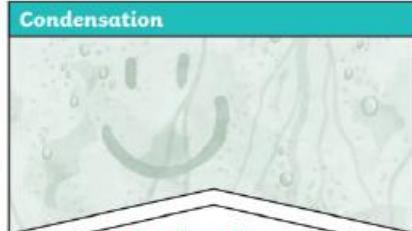
## Key Vocabulary

<b>melt</b>	This is when a <b>solid</b> changes to a <b>liquid</b> .
<b>freeze</b>	<b>Liquid</b> turns to a <b>solid</b> during the <b>freezing</b> process.
<b>evaporate</b>	Turn a <b>liquid</b> into a <b>gas</b> .
<b>condense</b>	Turn a <b>gas</b> into a <b>liquid</b> .
<b>precipitation</b>	<b>Liquid</b> or <b>solid</b> particles that fall from a cloud as rain, sleet, hail or snow.



### Evaporation

Evaporation occurs when water turns into **water vapour**. This happens very quickly when the water is hot, like in a kettle, but it can also happen slowly, like a puddle **evaporating** in the warm air.



### Condensation

Condensation is when **water vapour** is cooled down and turns into water. You can see this when droplets of water form on a window. The **water vapour** in the air cools when it touches the cold surface.