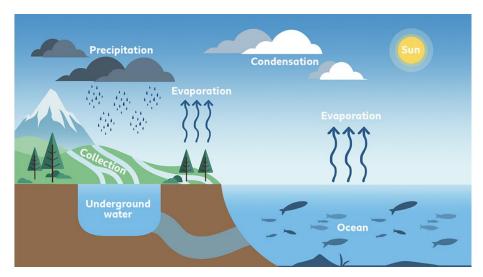
States of Matter



Key vocabulary	
solid	A state of matter where the particles are held tightly
	together in a fixed structure, giving the solid a fixed shape
	and a fixed volume
liquid	A substance made of particles that are close together but
	can slide past each other, allowing it to flow and take the
	shape of its container but still have a fixed amount of
	space (volume).
gas	A state of matter where particles are far apart and move
	quickly in all directions, filling any container they're in.
particles	The tiny, invisible building blocks of everything around us.
evaporation	The process where the sun's heat turns liquid water into
	an invisible gas called water vapour, which then rises into
	the air.
condensation	The process where water vapour (gas) cools down and
	turns back into tiny droplets of liquid water, forming
	clouds.
precipitation	When water falls from the clouds to the Earth's surface.

Key knowledge

The water cycle is how water moves around our planet.

It is a process that shows how water changes from one form to another and moves between the land, the sea and the air.

1. Water evaporates into the air (liquid to gas)

- The Sun heats up water in the sea, lakes, rivers and on land.
- The warm water turns into a gas which we call water vapour. This process is called evaporation.

2. Water vapour condenses to form clouds (gas to liquid)

- As the water vapour rises, it gets colder and condenses.
- This makes tiny droplets of liquid water, which is what clouds are made from.
- The clouds are moved by the wind.

3. Water falls as precipitation (sometimes liquid to solid)

- As the droplets of water in the clouds get larger, they grow heavier.
- Eventually they fall, usually as rain.
- If the air is very cold, the water freezes as it falls and we call this hail or snow.
- Rain, snow and hail are all examples of precipitation.

4. The water returns to the sea

- Water that falls on land is collected by streams and rivers. It then travels back to the sea.
- The water cycle starts again!







