

## Science – States of Matter

This half term, children will be learning about states of matter and the water cycle. A state of matter is the form in which a material can exist. The three states of matter we encounter in everyday life are solids, liquids and gases. The water cycle is the process of water moving between the earth's oceans, atmosphere and land.

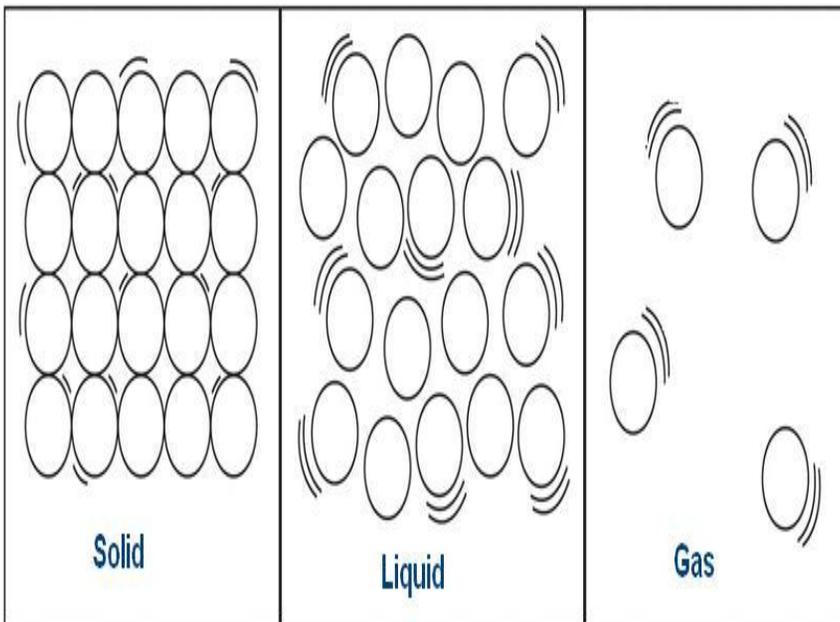
<b>Key facts</b>	<b>Key Vocabulary</b>	
There are three states of matter: solid, liquid and gas.	<b>Cooling</b>	Make or become cool or cold.
<p>In a solid, the particles are close together in ordered rows. They move a little bit on the spot.</p> <p>In a liquid, the particles are quite close together, but can move around each other easily. They move quite a bit, moving gently past each other.</p> <p>In a gas, the particles can move around very quickly in all directions. There is a lot of space between each particle.</p>	<b>Collection</b>	When water falls back into oceans, lakes, rivers or on the ground.
	<b>Condensation</b>	When a vapour or gas becomes a liquid.
	<b>Evaporation</b>	Turning from liquid into vapour.
	<b>Freezing</b>	When a material changes from a liquid to a solid.
	<b>Freezing point</b>	The temperature at which a liquid turns into a solid when cooled.
Water can be a solid (ice), a liquid and a gas (water vapour).	<b>Gas</b>	Materials that escape from an unsealed container.
	<b>Heating</b>	Make or become hot or warm.
Solids hold their shape; liquids form a pool not a pile; gases escape from an unsealed container.	<b>Liquid</b>	A material that forms a pool not a pile.
	<b>Melting</b>	Make or become liquefied by heating.
	<b>Melting point</b>	The temperature at which a solid will melt.
When a solid turns into a liquid it is called melting. The temperature at which a solid material melts is called its melting point.	<b>Particles</b>	A minute portion of matter.
	<b>Solid</b>	Materials that hold their shape.
When a liquid turns into a solid it is called freezing. The temperature at which a liquid material freezes is called its freezing point.	<b>States of matter</b>	The structure and state of a material.
	<b>Temperature</b>	The degree of heat present in a substance or object.
	<b>Thermometer</b>	An instrument for measuring and indicating temperature
	<b>Precipitation</b>	Droplets of water fall from clouds in the form of rain, sleet, hail or snow.

The four stages of the water cycle are evaporation, condensation, precipitation and collection.

**Water cycle**

The process of water moving between the earth's oceans, atmosphere and land.

**Particles**



**The water cycle**

