

Our Lady's Catholic Primary School - Knowledge Organiser

Science	States of Matter	Year 4
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Vocabulary:

Change of state:
When a material changes from one state to another.

Melting:
A solid changing into a liquid.

Freezing:
When a liquid becomes cold enough to turn solid, it freezes

Melting point:
The temperature where a solid becomes liquid.

Boiling point:
The temperature where a liquid turns to gas.

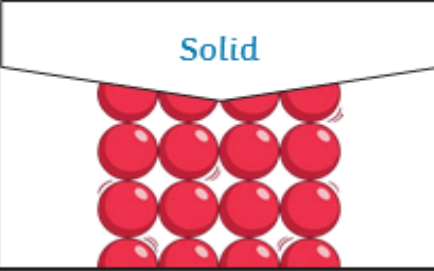
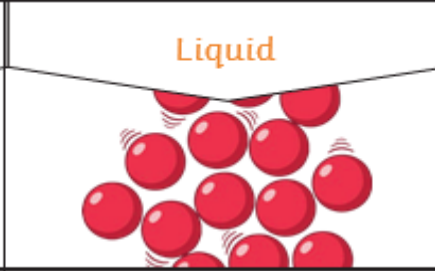
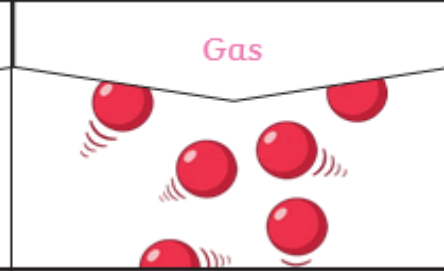
Evaporation:
When liquid changes into a gas.

Condensation:
The process of a gas becoming a liquid when cooled.


Water Cycle:
The never-ending process of water moving from the oceans, up into the atmosphere, and back to the Earth and oceans

Temperature:
The measure of how hot or cold something is.

What should I already know?

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.

Significant Scientist

<p>Bernard Palissy <i>(1510-1590)</i></p> 	<p>Bernard Palissy was a French potter and scientist. He is often credited as the man who 'discovered' the modern theory of the water cycle. He asserted that rainfall alone was sufficient for the maintenance of rivers.</p>
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Investigations

Weighing gases - Investigating the amount of CO₂ in different liquids.

Heating and cooling - Investigating how heating and cooling changes the state of solids.

Evaporation - Investigating what happens during the process of evaporation.