

## West Leigh Junior School—Knowledge Organiser

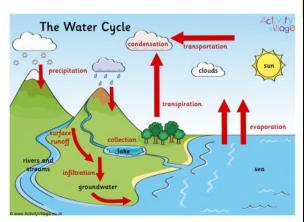


Science Focus:

States of Matter

Year 4

Spring Term 2



evaporate  gas
condense
liquid freeze solid

Key Knowledge				
Materials fall into	$\Rightarrow$	Solids		
four main categories	$\Rightarrow$	Liquids		
	$\Rightarrow$	Gases		
	$\Rightarrow$	Plasma (Not part of our curriculum)		
How to spot each	Solids			
type of material:	•	Solids stay in one place and can be held.		
	•	Most solids keep their shape. They do not flow like liquids. (Some solids like sand or salt can be poured) Solids always take up the same amount of space. They do not spread		
	out like gases.			
	Liquid:	Liquids can flow or be poured easily. They are not easy to hold. Liquids change their shape depending on the container they are in.		
	Gases			
	* *	Gases are often invisible. Gases do not keep their shape. They spread out and change their shape and volume to fill up whatever container they are in.		
What does changes	When a material changes from one material			
of state mean?	type to another, we say 'it has changed state.'			

Key Vocabulary				
Spelling	Definition			
boil	To become so hot (100°C) that water bubbles and then turns into a gas.			
Celsius	The common scale in the UK for measuring temperature.			
container	Something which holds things inside, like a box, jar or tub.			
temperature	The measure of warmth or coldness of an object.			

What	Explanation	Name of Process	Example
Solid to liquid	When a solid <b>melts</b> it changes to a liquid.	melting	When an ice cube melts.
Liquid to gas	A liquid <b>evaporates</b> into a gas when it is heated.	evaporation	When water on a roof is warmed up and turns to steam.
Gas to liquid	When a gas it cooled it condenses into a liquid.	condensation	When steam from the shower cools on the mirror it turns to water.
Liquid to solid	When a liquid <b>freezes</b> it turns into a solid.	freezing	When the water in a pond freezes, it turns to ice.