Year 4 Spring 1- Changing state- Is water always a liquid?			
	<u>Key Vocabulary</u>	Prior knowledge	Sticky Knowledge
Solids Liquids	These are materials that keep their shape unless a force is applied to them. They can be hard, soft or even squashy. Solids take up the same amount of space no matter what has 	 In Year 2, during the topic 'Uses of Materials' and 'Changing shape' we: Identified and compared the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper, and cardboard for particular uses Found out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching 	There are three states of matter. Solid Particles in a solid are close together and cannot move. They can only vibrate. When water and other liquids reach a certain temperature, they change state
Gases	or be poured. Gases 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	Properties of Materials Wood: hard, stiff, strong, opaque, into any shape. Plastic: waterproof, strong, cardbo fexible or stiff, smooth or rough. Paper: lightweight, fexible. Paper: lightweight, fexible. Paper: lightweight, fexible. Paper: lightweight, strong, light, stiff, strong, light, stiff, strong, light, stiff, strong, light, stiff, strong, light, stiff,	into a solid or a gas. The temperatures that these changes happen at are called the boiling, melting or freezing point.
States of matter	Materials can be one of three states: solids, liquids or gases. Some materials can change from one state to another and back again		
Melt	This is when a solid changes to a liquid.		
Freeze	Liquid turns to a solid during the freezing process.	fabric: soft, flexible, hard-wearing, can be stretchu,	
Evaporate	Turn a liquid into a gas	<u>Knowledge and Assessment</u> - Compare and group materials together, according	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
Condense	Turn a gas into a liquid.	to whether they are solids, liquids or gases. - Observe that some materials change state when	cold surface.
Precipitation	Liquid or solid particles that fall from a cloud as rain, sleet, hail or snow.	they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C). - Identify the part played by evaporation and	 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 constrained in the sun's down to form water
Water cycle	The continuous journey of water from oceans and lakes, to clouds, to rain, to streams, to rivers and back into the ocean again.	condensation in the water cycle and associate the rate of evaporation with temperature.	droplets in clouds (condensation). 3. When the droplets get too heavy, they fall back to the earth as rain, sleet, hail or snow (precipitation).