STATES OF MATTER – Knowledge Organiser Year 4 Autumn 1						
Vocabulary The Water Cycle			Properties			
materials	The substances from which all objects are made.		Solids, liquids and gases are called the states of matter. The properties of these states are different and can be used to help identify whether a material is a solid, a liquid or a gas.			
object	Something which can be seen or felt.	This and the				
matter	The 'stuff' that everything in the Universe is made from.	Precipitation Transpiration				
property	The appearance, characteristics and behaviour of a material.					
volume	The amount of space an object takes	Collection	Property	State of Matter		
	up.	Runoff		Solid	Liquid	Gas
compress	To reduce in size, quantity or volume by pressure.	The water cycle is the continuous journey of water from the land to the sky and back to the land again. This constant movement of water is happening all the time and is vital to supporting life on earth. There are four main stages in the water cycle: <b>Evaporation</b> happens when warmth from the sun causes water (liquid) from the sea, lakes and rivers to rise into the air and turn to vapour (gas). <b>Condensation</b> happens when the water vapour cools and	Shape	Fixed	No fixed shape	No fixed shape
process	A series of actions or steps.					
heating	Increasing the temperature.		Volume	Fixed	Fixed	No fixed
cooling	Decreasing the temperature.		Volume			volume
melting	The change of state from solid to liquid.		Ability to squash/ compress Ability to	Can't be compressed Can't be	Can't be compressed Can be	Can be compressed Can be
freezing / solidification	The change of state from liquid to solid.					
melting point	The temperature at which a solid changes to a liquid.		pour and flow	poured and it doesn't flow	poured and it does flow	poured and it does flow
freezing point	The temperature at which a liquid changes to a solid.	turns back into drops of water which form clouds in the sky. <b>Precipitation</b> is when the clouds get too heavy and water falls from the clouds in the form of rain, snow, sleet or hail.				
temperature	A measurement of how hot or cold something is.	<b>Run off</b> happens when the majority of this water runs over the land and flows back into lakes and rivers or gets carried	Solid			学会
thermometer	An instrument used to measure	back to the sea.			- AL - AL	
	temperature.		10	Liquid	A A A A A A A A A A A A A A A A A A A	
evaporation	The change of state from liquid to gas.	Melting Evaporation	Y	Liquid	1. 82	
condensation	The change of state from gas to liquid.		- Car	C	Gas	
precipitation	When water falls from the clouds as rain, snow, sleet or hail.	Solid Solidification Liquid Condensation Gas				Land



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