

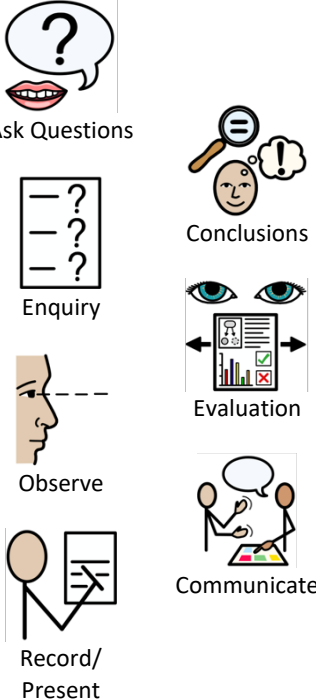




Year 4 – Spring 2 – Science – Pupil Knowledge Organiser



What do I already know?	What am I learning now?																					
<ul style="list-style-type: none"> Matter can exist in three main states: solid, liquid, and gas. The process of liquid becoming a gas is called evaporation. The water cycle includes the processes of evaporation and condensation. The water cycle is significant because it redistributes water around the planet. Temperature is measured using degrees Celsius (°C). 	<ol style="list-style-type: none"> What is a theory and how might it change over time? (WS) How do we identify and create a hypothesis and prediction? (WS) Can we plan a scientific investigation? (WS) How does increasing temperature affect the rate of evaporation? (WS) What makes a scientific conclusion? (WS) 																					
Key Knowledge: Materials (Continued) Working Scientifically Focus	Key Skills: Working Scientifically	Key Vocabulary																				
 <p>The state of matter for some materials can be changed through heating or cooling.</p>  <p>Every material has a specific temperature at which it changes from one state to another.</p> <p>Particles in solids are tightly packed.</p> <p>Particles in liquids can move past one another.</p> <p>Particles in gases are spread out and move freely.</p>		<table border="0"> <tr> <td data-bbox="1500 499 1668 614">liquid</td> <td data-bbox="1680 499 2134 614">A state of matter which takes the shape of their container and have a fixed volume.</td> </tr> <tr> <td data-bbox="1500 622 1668 694">gas</td> <td data-bbox="1680 622 2134 694">A state of matter with no fixed shape or volume.</td> </tr> <tr> <td data-bbox="1500 710 1668 782">particle</td> <td data-bbox="1680 710 2134 782">Tiny, invisible pieces that make up everything around us.</td> </tr> <tr> <td data-bbox="1500 798 1668 869">temperature</td> <td data-bbox="1680 798 2134 869">The measure of how hot or cold something is.</td> </tr> <tr> <td data-bbox="1500 885 1668 957">evaporation</td> <td data-bbox="1680 885 2134 957">When water turns into vapour or gas because of heat.</td> </tr> <tr> <td data-bbox="1500 973 1668 1045">rate</td> <td data-bbox="1680 973 2134 1045">How quickly or slowly something happens over time.</td> </tr> <tr> <td data-bbox="1500 1061 1668 1133">hypothesis</td> <td data-bbox="1680 1061 2134 1133">A possible answer to a scientific question.</td> </tr> <tr> <td data-bbox="1500 1149 1668 1220">prediction</td> <td data-bbox="1680 1149 2134 1220">A statement of what you think will happen.</td> </tr> <tr> <td data-bbox="1500 1236 1668 1356">results table</td> <td data-bbox="1680 1236 2134 1356">A chart where we write down what we find out from our measurements to help us see the answers more clearly.</td> </tr> <tr> <td data-bbox="1500 1372 1668 1476">conclusion</td> <td data-bbox="1680 1372 2134 1476">When we look at what we have learned from our tests and decide what it tells us.</td> </tr> </table>	liquid	A state of matter which takes the shape of their container and have a fixed volume.	gas	A state of matter with no fixed shape or volume.	particle	Tiny, invisible pieces that make up everything around us.	temperature	The measure of how hot or cold something is.	evaporation	When water turns into vapour or gas because of heat.	rate	How quickly or slowly something happens over time.	hypothesis	A possible answer to a scientific question.	prediction	A statement of what you think will happen.	results table	A chart where we write down what we find out from our measurements to help us see the answers more clearly.	conclusion	When we look at what we have learned from our tests and decide what it tells us.
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