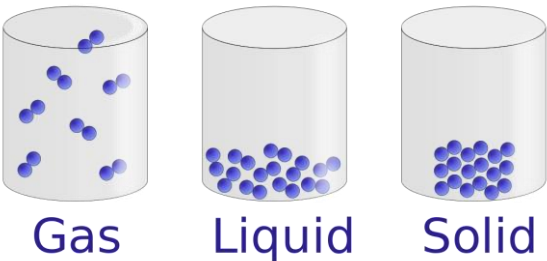
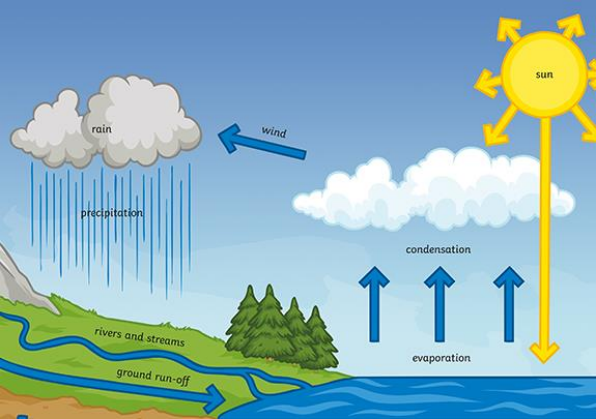


Year 4: Science States of Matter Knowledge Mat

Subject Specific Vocabulary		Information	Important knowledge
solid	The state of something whose particles do not move freely. It has a fixed shape.	 <p style="text-align: center;">Gas Liquid Solid</p>	<ul style="list-style-type: none"> <input type="checkbox"/> I know how to group materials together, according to whether they are solids, liquids or gases. <input type="checkbox"/> I know about changes in state, e.g., solid to liquid or liquid to gas. <input type="checkbox"/> I know that some materials change state when they are heated or cooled. <input type="checkbox"/> I know the temperature at which changes of state happen in degrees Celsius (°C). <input type="checkbox"/> I know about evaporation in the water cycle. <input type="checkbox"/> I know about condensation in the water cycle. <input type="checkbox"/> I know the link between the rate of evaporation and temperature. <input type="checkbox"/> Working Scientifically <input type="checkbox"/> I can make a prediction and give a reason for this, making links to what I already know. <input type="checkbox"/> I can decide which observations to make. <input type="checkbox"/> I can record my observations, data and results using scientific vocabulary and symbols - in tables and labelled diagrams. <input type="checkbox"/> I can explain why something has happened using the correct scientific vocabulary. <input type="checkbox"/> I can compare my results with others and suggest reasons why they might be different.
liquid	The state of something whose particles move freely whilst maintaining some relationship to each other so that it's volume remains constant but it's shape changes dependent upon the container.		
gas	The state of something whose particles move freely of each other.		
state of matter	A phrase used to describe the physical properties of something: solid, gas or liquid.		
particle	Tiny bits of matter that make up everything in the universe.		
compressed	Pressing something into a smaller space.		
vapour	Tiny particles of liquid or solid help in a gas.		
precipitation	Water that falls to the earth as hail, mist, rain, sleet, or snow.		
condensation	A process which causes a substance to change from a gaseous state to a liquid state.		
evaporation	A process which causes a substance to change from a liquid state to a gaseous state.		