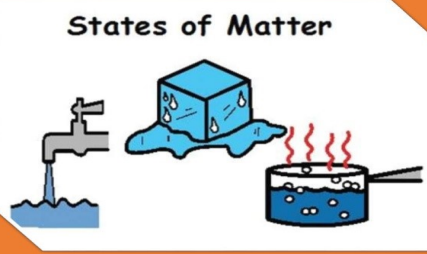
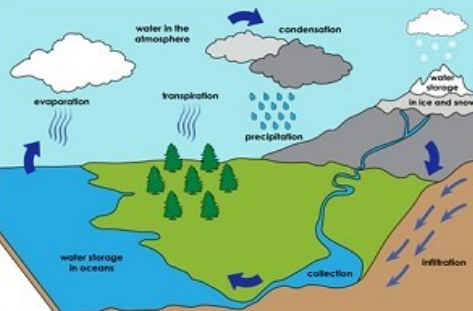


# Y4 Sorcerer's Apprentice

(states of matter)

 <p><b>States of Matter</b></p>	<p><b>End Points:</b></p>		<p><b>Key Vocabulary</b></p>			
	<p>Understand that substances can exist as solids, liquids or gases and be able to give a simple explanation of how the different states behave.</p>	<p><b>Word</b></p>	<p><b>Definition</b></p>			
<p><b>How you can help at home:</b></p>	<p>Explain that changes of states occur when substances are heated or cooled.</p>	<p>solid</p>	<p>Particles are close together, are arranged in a regular way, can vibrate but cannot move and cannot be compressed.</p>			
<ul style="list-style-type: none"> <li>Discuss how solids, liquids and gases can change state.</li> <li>Discuss how some familiar materials can exist in different states, e.g. water.</li> </ul>	<p>Explain the water cycle and understand some of the scientific processes (evaporation</p>	<p>liquid</p>	<p>Liquid particles are close together, are arranged in a random way, move around each other, take on the shape of the container and cannot be</p>			
<p><b>Prior Learning</b></p>	<p><b>Future Learning</b></p>	<p>gas</p>	<p>Gas particles are arranged in a random way, are far apart and move quickly in all directions.</p>			
<p>Recognising similarities and differences between different materials (wood/plastic/metal)</p>	<p>Dissolving and recovering substances from a solution.</p>	<p>changing state</p>	<p>When a substance changes between a solid, liquid or gas.</p>			
<p>Exploring the structure of the earth.</p>	<p>Separating solutions.</p>	<p>melt</p>	<p>When solid changes to liquid because of temperature change.</p>			
<p>Identifying and observing properties of rock and testing these properties.</p>	<p>Recognising irreversible (chemical) changes.</p>	<p>freeze</p>	<p>When liquid changes to solid because of temperature change.</p>			
		<p>particles</p>	<p>Everything is made up of tiny particles joined together.</p>			
		<p>evaporation</p>	<p>When a liquid changes state into a gas.</p>			
		<p>condensation</p>	<p>When a gas changes state into a liquid.</p>			
		<p>precipitation</p>	<p>Rain, sleet, hail, snow or rime ice that falls from a cloud.</p>			

	<p>Effective Communicators</p>	<p>Creative thinkers &amp; problem solvers</p>	<p>The ability to make connections and comparisons</p>	<p>Valuable members of a community</p>	<p>Understanding change, capable of changing and accepting change</p>
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Respect

Positivity

Kindness