




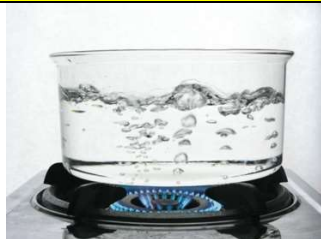



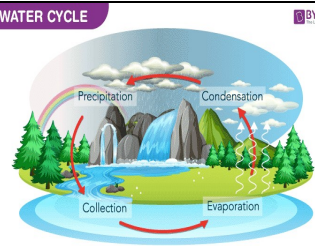


<div> WJS - Knowledge Organiser</div>		Subject	Topic	Year	Term
		Science 	States of Matter	3 & 4 (Y4)	Autumn 2
N.C. Statements		What are the three states of matter?			
<ul style="list-style-type: none"><li>• Compare and group materials together, according to whether they are solids, liquids or gases.</li><li>• Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C)</li><li>• Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature</li></ul>		Solids – hold their shape, Liquids – form a pool not a pile, Gases – escape from an unsealed container.			
		What is special about Water?			
		Solid	Liquid	Gas	
					
Key Vocabulary		Important Diagrams			
Spelling	Definition	Key Questions	 		Common Misconceptions
air/oxygen water vapour/gas	Water in its gaseous state is known as water vapour and its tiny particles float in the air.				
degrees Celsius	Unit of measure for temperature (°C)	What do the particles look like in a solid, liquid and gas?			<ul style="list-style-type: none"><li>• If a solid or liquid is heated the particles get bigger.</li><li>• Melting is not the same as dissolving.</li><li>• Most of a gas is empty space.</li><li>• Atoms, molecules and particles are very very small.</li><li>• The particles in a liquid are still close together but they are free to move around.</li></ul>
change state heating (boil)/cooling melt/freezing	To change state means to either heat or cool something, turning it from solid to liquid, liquid to gas or liquid to solid.				
condensation & evaporation	Turning water vapour to liquid  Turning liquid to water vapour	What is a melting point?			Working Safely
Water Cycle	the water circulation process				
particles	one of the very small parts of water				Never touch the steam when you boil water – it is hot. When something is melted it may become hot – caution.