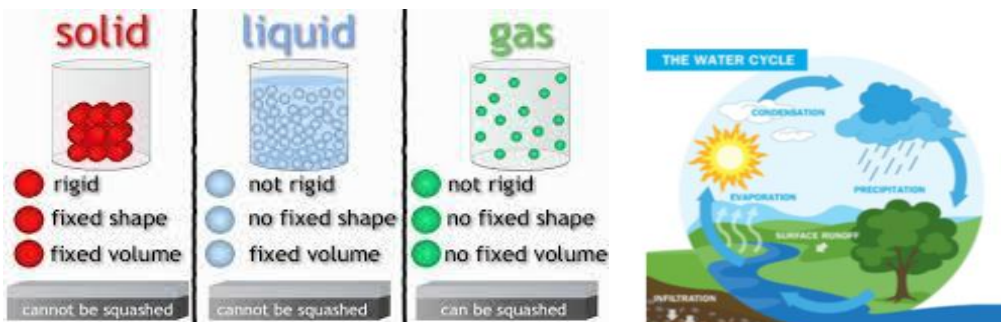
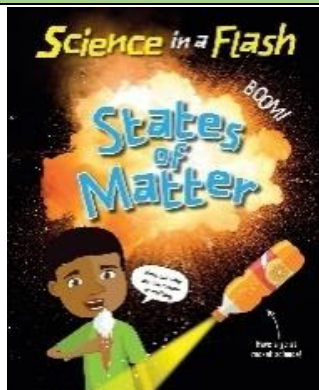
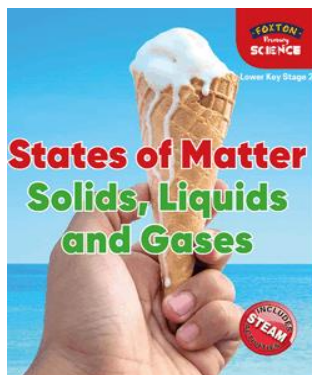





# Broomwood Primary School Knowledge Organiser



## LKS2: States of Matter - Chemistry

Subject Specific Vocabulary		Memorable Image	Exciting Books	
Solid	Materials that keep their shape unless a force is applied to them. They can be hard, soft or even squishy.		 	
Liquid	Materials that take the shape of their container but not the amount of space they take up. They can flow or be poured.			
Gas	Materials that can spread out to completely fill a container or room. They do not have a fixed shape however they do have a mass.			
Evaporation	The process of when a liquid is heated and turns into a gas.	Sticky Knowledge		
Condensation	The process of when a gas is cooled and turns into a liquid	<p>I know how to compare and group materials according to whether they are solids, liquids or gases.</p> <p>I know the key properties of solids, liquids and gases.</p> <p>I know what particles are like inside solids, liquids and gases.</p> <p>I know the part played by evaporation and condensation in the water cycle.</p> <p>I know that the rate of evaporation changes with a different temperature.</p> <p>I know that materials can change state when they are heated or cooled.</p> <p>I know that water boils at 100 degrees celcius and freezes at 0 degrees celcius.</p> <p>I know how a thermometer works in the process of measuring temperature.</p>	 <p>My name is Joseph Priestly and I discovered Oxygen in 1774. I was in my laboratory experimenting with Mercury when I decided to heat the liquid. This produced a gas that could reignite a glowing splinter. This gas was Oxygen.</p>	
Particles	Small bits of matter that make up the universe.			
Temperature	The hotness and coldness of something.			
Degrees Celcius	The way in which temperature is measured		Scientist	
Thermometer	An instrument for measuring temperature.		Previous Learning	
Freezing	The process when a liquid is below zero degrees celcius and it turns into a solid.		<p><u>In EYFS:</u> I know an appropriate material to construct different models depending on its flexibility and stability. I know that water freezes to make ice and that it melts.</p> <p><u>In KSI:</u> I know the difference between an object and the material from which it is made. I know a variety of different everyday materials and know their physical properties in order to compare them including wood, plastic, glass and metal. I know the suitability of everyday materials and their uses. I know that different materials can change their shape by squishing, bending, twisting and stretching.</p>	
Heating	Heat is a form of energy that flows from a hot object to a cool object that absorbs the heat energy.			
Water Vapour	This is water that has taken on the form of a gas when boiled. This evaporates the water to form water vapour.			
Condense	The process when a gas turns into a liquid.			
Percipitation	Liquid or solid particles that fall from a cloud as rain, sleet, hail or snow.			
Melt	This is when a solid changes to a liquid.			