

# 5D CHANGING STATE

<h2>Glossary</h2>	<p style="text-align: center;">Particles</p> <p style="text-align: center;">Solid                      Liquid                      Gas</p> <p style="text-align: center;">States of matter</p>	<p>Sewage goes to a <b>sewage treatment</b> works. Sewage goes through a process of <b>aeration</b> to help bacteria digest waste water</p>	<p>Drinking water has all dirt and germs removed before it gets to us, this is known as <b>water purification</b></p>	<p><b>melting</b> – the process of change from a solid into a liquid to <b>melt</b> - verb</p>
<p><b>aeration</b> - in sewage treatment the process of blowing air bubbles through the waste water in order to help bacteria digest waste matter</p>				<p><b>melting point</b> - the temperature above which a solid becomes a liquid</p>
<p><b>boiling point</b> – the temperature above which a liquid becomes a gas</p>	<p style="text-align: center;"><b>The Water Cycle</b></p>			<p><b>pure substance</b> – matter that is not a mixture of things</p>
<p><b>change of state</b> – the process of change from one state of matter to another</p>				<p><b>sewage treatment</b> – the process of cleaning and purifying sewage water for return to a river, lake or sea</p>
<p><b>condensation</b> – the process of change from a gas into a liquid to <b>condense</b> - verb</p>				<p><b>solid</b> – one of the three states of matter. Solids keep their shape. The particles of a solid are very close together</p>
<p><b>evaporation</b> – the process of change from a liquid into a gas to <b>evaporate</b> - verb</p>				<p><b>solidification</b> – the process of a liquid hardening to form a solid to <b>solidify</b> - verb</p>
<p><b>freezing</b> – the process of change from a liquid into a solid to <b>freeze</b> - verb</p>				<p><b>states of matter</b> – all material exists in three states – <b>solid, liquid and gas</b></p>
<p><b>freezing point</b> – the temperature below which a liquid becomes a solid – for water this is 0°C</p>			<p>A pure diamond is an example of a <b>pure substance</b></p>	<p><b>water cycle</b> – the cycle of events that occur naturally in the weather systems of the Earth where water moves through its three states</p>
<p><b>gas</b> – one of the three states of matter. Gases move to fill any available space. The particles in a gas are very far apart from each other and move freely</p>	<p style="text-align: center;"><b>Changing State</b></p> <p style="text-align: center;">Solid                      Liquid                      Gas</p> <p style="text-align: center;">The freezing point of water is 0°C      Ice melts      The boiling point of water is 100°C</p> <p style="text-align: center;">The ice is solid, when heat is added, it reaches melting point and turns into a liquid. When more heat is added the water evaporates and turns into a gas. When the gas meets a cold surface, it condenses and turns back into a liquid.</p>	<p>Melted chocolate will <b>solidify</b> if left in a cool place – this is called <b>solidification</b></p>		<p><b>water purification</b> – the process of removing dirt and germs from water to make it drinkable for humans</p>
<p><b>liquid</b> – one of the three states of matter. In a liquid the particles are not as close together as in the solid form. Liquids can be poured and take on the shape of the container they are placed in</p>				