



Key Questions and Facts

<p>What are changes of state?</p>	<p>The solid melts. The liquid freezes. The gas condenses. The liquid evaporates.</p>			
<p>How can changes be reversed?</p>	<p>Reversible changes, such as mixing and dissolving solids and liquids together, can be reversed by:</p> <table border="1"> <tr> <td> <p>Sieving</p> <p>Smaller materials are able to fall through the holes in the sieve, separating them from larger particles.</p> </td> <td> <p>Filtering</p> <p>The solid particles will get caught in the filter paper but the liquid will be able to get through.</p> </td> <td> <p>Evaporating</p> <p>The liquid changes into a gas, leaving the solid particles behind.</p> </td> </tr> </table>	<p>Sieving</p> <p>Smaller materials are able to fall through the holes in the sieve, separating them from larger particles.</p>	<p>Filtering</p> <p>The solid particles will get caught in the filter paper but the liquid will be able to get through.</p>	<p>Evaporating</p> <p>The liquid changes into a gas, leaving the solid particles behind.</p>
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<p>What are thermal insulators and conductors?</p>	<p>Materials which are good thermal conductors allow heat to move through them easily. Thermal conductors are used to make items that require heat to travel through them easily, such as a saucepan which requires heat to travel through to cook food. Thermal insulators do not let heat travel through them easily. Examples of thermal insulators include woollen clothes and flasks for hot drinks.</p>			
<p>What are electrical insulators and conductors?</p>	<p>Electrical conductors allow electricity to pass through them easily while electrical insulators do not. Electrical insulators have a high resistance which means that it is hard for electricity to pass through these objects.</p>			

Vocabulary

<p>Solid</p>	<p>having a firm shape or form that can be measured in length, width, and height; not like a liquid or a gas.</p>
<p>Transparent</p>	<p>if an object is transparent, you can see through it.</p>
<p>Soluble</p>	<p>able to be dissolved.</p>
<p>Dissolves</p>	<p>when a substance is mixed with a liquid.</p>
<p>Filtering</p>	<p>a device used to remove dirt or other solids from liquids or gases. A filter can be made of paper, charcoal, or other material with tiny holes in it.</p>
<p>Evaporation</p>	<p>to turn from liquid into gas; pass away in the form of vapour.</p>
<p>Condensation</p>	<p>small drops of water which form when water vapour or steam touches a cold surface, such as a window.</p>
<p>Irreversible</p>	<p>impossible to reverse, turn back, or change.</p>

Working Scientifically

<p>Planning different types of scientific enquiries.</p>	<p>Taking measurements, using a range of scientific equipment.</p>	<p>Recording data and results.</p>
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Grouping Materials

