

What we already know:

Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.

Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.





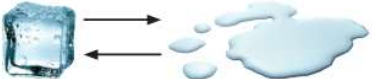



What's next?

Different materials were used in WW2 (Year 6)

Electricity (Year 6)

Create a working circuit (Year 6)

To understand the reversible and irreversible changes of the rainforest (year 6)

Dissolving	Separate materials- filtering and sieving	Reversible changes	Solutions and evaporation	Vocab
<p>A soluble substance can dissolve in a liquid.</p> <p>An insoluble substance cannot dissolve in a liquid.</p> <p>To make a solution, a substance is dissolved into a liquid.</p> <p>Increasing the temperature of the liquid increases the rate of dissolving.</p> <p>Stirring the liquid increases the rate of dissolving.</p> 	<p>Sieving can be used to separate a mixture of different-sized solids.</p> <p>Filtering can be used to separate an insoluble solid from a liquid.</p>  <p>A liquid will pass through filter paper, but an insoluble solid will not.</p> <p>Filtering cannot be used to separate a soluble solid from a liquid.</p> 	<p>The three states of matter are solids, liquids and gases.</p>  <p>Some changes can be reversed, such as dissolving, mixing and changes of state.</p>  <p>Changes of state include freezing, melting, evaporation and condensation.</p> 	<p>Evaporation is the change of state from a liquid to a gas which happens slowly from the surface of a liquid.</p>  <p>Evaporation can be used to separate a soluble solid from a liquid.</p> 	<p>Tier One</p> <p>Wood Water Fire burn</p>
<p>Irreversible changes- burning</p>				<p>Tier Two</p>
<p>An irreversible change is when a change cannot be undone to get the same substances back again.</p> <p>Irreversible changes result in new substances being made.</p> <p>When a new substance is made, a chemical reaction has taken place.</p>				<p>dissolve – when a solution is made from a liquid and one other substance.</p> <p>solution – made by dissolving a substance in a liquid.</p> <p>filter paper – equipment used to separate insoluble solids from a liquid.</p> <p>evaporation – the change of state from a liquid to a gas which happens slowly from the surface of a liquid.</p> <p>states of matter – the different forms that materials can take</p> <p>chemical reaction – a change where new substances are made</p> <p>Tier Three</p>
<p>Irreversible changes- acid</p>			<p>Irreversible changes (such as burning and reactions with acids) cannot be reversed, and they result in new substances being made.</p> <p>When a substance fizzes, a gas has been made.</p>	



Burning is an example of an irreversible change.



Soluble
Insoluble
substance