Properties and changes of materials





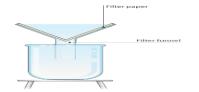
What should I already know?

The names of different objects and their properties. Some materials can change state.

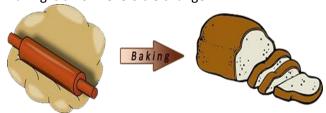
Diagrams

Some mixtures can be separated by filtering.





Baking is a non-reversible change.



Vocabulary



Easily bent without breaking.



Not easily broken or worn



Anything that allows heat, electricity, or sound to pass through.



Anything that stops heat, electricity, or sound passing through



A change that can be undone.



A change that cannot be undone.



To mix completely with liquid.



To isolate form a mixture through sieving, filtering and evaporating.



When liquids turn into gases from being heated.



When a solid turns into a liquid from being heated.

Quick Facts Some materials are soluble (dissolve in water) and some are not.



Investigations into the properties of different materials give reasons as to why particular materials are used for particular purposes. For example: A wooded spoon is good for cooking

because it does not conduct heat.

Some changes to materials are reversible such as ice, water and water vapour and some changes are not reversible such as cake mixture and cake.

When acid (vinegar) and bicarbonate of soda are mixed a new material is made and this change cannot be reversed.

Some materials such as salt will dissolve in liquid to make a solution and some will not.

This process is different to melting because there are two materials involved in making a solution whereas melting just involves heating a material.

When a solution is made, it is possible to recover that substance from the solution.

Mixtures can be separated by a process of sieving, filtering and evaporating.

Working Scientifically



Questioning, Planning and Enquiring



Investigating



Observing and Recording



Concluding and Evaluating