

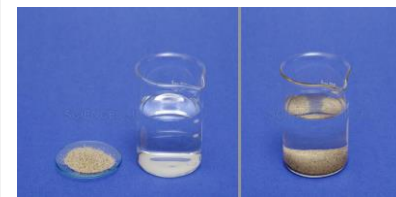
Vocabulary	Meaning
brittle	hard but can easily break
elasticity	the ability of an object or material to resume its normal shape after being stretched or compressed
indentation	a dent made in an object's edge or surface
thermal	relates to heat
insulator	a material which does not readily allow the passage of heat or sound
conductor	a material which readily allows the passage of heat or sound
dissolve	become incorporated into a liquid so as to form a solution
solution	a substance or matter in a state which it will expand freely to fill the whole of a container
solute	the minor component in a solution
filter	remove impurities or solid particles from a liquid or a gas
evaporate	turn from liquid into vapour or gas
immiscible	liquids which do not mix
filtration	the action or process of filtering something
chemical change	make or become different through a chemical process
state of matter	a solid, liquid or a gas

Key knowledge – What are soluble and insoluble substances?

Substances that dissolve in water are called soluble substances. When you mix sugar with water, the sugar dissolves to make a transparent solution. Salt is soluble in water too.



Substances that do not dissolve in water are called insoluble substances. When you mix sand or flour with water, they do not dissolve.



Key knowledge – What are reversible and irreversible changes?

A reversible change is a change that can be undone or reversed. If you can get back the substances you started the reaction with, that's a reversible reaction. A reversible change might change how a material looks or feels, but it doesn't create new materials.



A change is called irreversible if it cannot be changed back again. In an irreversible change, new materials are always formed. Sometimes these new materials are useful to us. The new materials have undergone a chemical change.

