



Knowledge Organiser – Properties of Materials (Science Year 5)

Key	Definition
_	Definition
Vocabulary	
Electrical	Ability to conduct or
conductivity	transmit electricity.
Solubility	How well a substance
	dissolves.
Thermal	Ability to conduct or
conductivity	transmit heat.
Dissolve	To mix with a liquid and
	become part of the liquid.
Insoluble	Something that is not able to
	dissolve.
Filtering	Process to use when you can
	separate small objects.
Reversible	Capable of being reversed.
change	

Examples of reversible changes that can change back to their original form.





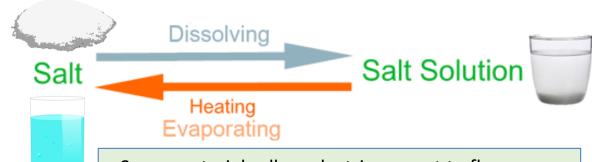
Boiling water

Ice cubes melting

Melting butter

Solution of sugar and water

When a solid (**solute**) dissolves in the liquid (**solvent**), a **solution** is formed.



Most metals are good conductors of heat.

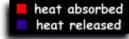
Some materials allow electric current to flow more freely than others e.g. metals. These materials are called electrical conductors.

Mixing materials together forms a mixture where two or more substances are physically combined. It can be separated by physical methods such as:

sieving

filtering

evaporating











Separating different solids.

Separating insoluble solids from liquids.

Separating soluble solids from liquids.

State changes are reversible.

Chemical changes produce new substances.















Starting materials

Products of the change

Evidence of a chemical reaction can be identified through:

Change of composition

Change of colour

Examples of chemical changes are:

burning

cooking and baking

rusting

fermentation

The change cannot be reversed

Change of smell