

YEAR 5 - MATERIALS AND THEIR PROPERTIES

Conductor	A material or device which allows heat or electricity to carry	
	through	
Thermal	Relating to heat	
Flexible	Capable of bending easily without breaking	
Reversible	Able to be reversed back to its original state - Melting and	
change	heating are examples of reversible changes.	
Irreversible	Cannot be reversed back to its original state	
change	Burning or mixing a liquid with bicarbonate of soda are examples of irreversible changes	
Magnetic	Capabale of being magnetised or attracted by a magnet	
Dissolve	When something solid mixes with a liquid and becomes part	
	of the liquid	
Soluation	A mixture that contains two or more substances combined	
	evenly.	
Soluble	Able to be dissolved, especially in water	
Insoluable	impossible to dissolve, esp. in a given liquid	
Filtering	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.	
Sieving	Removal of unwanted items / objects	
permeable	a substance that a gas or liquid can pass through	
Evanoration	The process of turning from liquid to vanour	
Evaporation		
Condensation	small drops of water which form when water vapour or	
	steam touches a cold surface, such as a window	
Transparent	Allows light to pass through so that objects behind can be	
	seen	
Opaque	Not able to be seen through, not transparent	





Year 5 – skills and Knowledge	Sticky facts
Compare and group together everyday materials on the basis of their properties, including their <u>hardness, solubility, transparency, conductivity</u> (electrical and thermal), and response to magnets.	
Know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution.	
Use knowledge of solids, liquids and gases to decide how mixtures might be <u>separated,</u> including through <u>filtering, sieving and evaporating.</u>	
Give reasons, based on evidence from <u>comparative</u> and fair tests , for the particular uses of everyday materials, including metals, wood and plastic.	
Demonstrate that dissolving, mixing and changes of state are reversible changes .	
Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible (irreversible) , including changes associated with burnin g and the action of acid on bicarbonate of soda	

Year 5 - working scientifically skills	Investigation
planning different types of scientific enquiries to answer questions, including	
taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate	
recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs	
using test results to make predictions to set up further comparative and fair tests	