Properties and changes of materials – Year 5 (part 1)

In year 5 you will learn:

- That different materials have different properties and that is why we use them for certain jobs.
- That we can separate mixtures of materials using what we know about their properties.
- That some materials will dissolve.

Key vocabulary	
thermal	Does not allow heat to pass
insulator	through it easily.
thermal	Allows heat to pass through it
conductor	easily.
electrical	Does not allow electricity to pass
insulator	through it.
electrical	Allows electricity to pass through
conductor	it.
dissolve	A solid that completely mixes in
	with a liquid and cannot be seen.
solution	A mixture of a liquid with a
	dissolved solid or gas.
soluble	Solids and gases that dissolve in
	liquids.
insoluble	Solids that do not dissolve in a
	liquid.
sieve	Separates solids of different sizes.
filter	Separates an insoluble solid that is
	mixed in a liquid.
evaporation	Separates a soluble solid and a
	Liquid.

Materials can be grouped together based on their properties. For example:

- hardness
- solubility
- transparency
- thermal conductivity
- electrical conductivity
- response to magnets

Working scientifically: Depicting a scientist's manner of thinking, questioning, researching and analysing to acquire or improvise existing knowledge.

Making predictions: Refers to declaring or indicating in advance what you think will happen in the future.

Reversible: A reversible change refers to a change or reaction that can be undone or reversed. E.g. Ice cube can be melted and frozen again, Chocolate.

Irreversible: A irreversible change refers to a change or reaction that can not be undone or changed. E.g. Time, Age, Friction.



