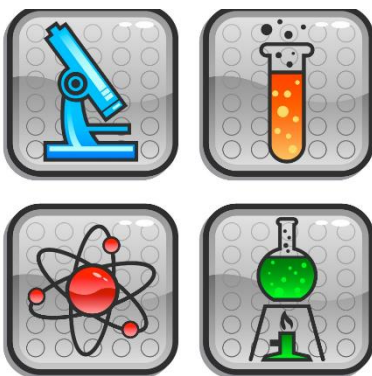




Year 5 Properties and changes of Materials: Sticky Knowledge Mat

Exciting websites

RSC- Royal Society of Chemistry
BBC Bitesize and Terrific Scientific
Explorify



Important facts about Materials

Irreversible changes cannot be undone. For example, when vinegar and bicarbonate of soda are mixed or a material is burnt.

Reversible changes, like melting, freezing and dissolving, can be changed back again.

Some mixtures can be separated out by methods like filtering, sieving and evaporating.

Mixing certain substances can cause an irreversible change

Materials have different properties such as conductivity and transparency etc which make them suitable or unsuitable for purpose.

Materials can be compared and grouped together based on their properties.

Subject Specific Vocabulary

solution	A liquid in which a solid substance has been dissolved
evaporation	Substance in a liquid state changing to a gaseous state
filtering	To pass through a device which is designed to remove certain particles contained in it.
properties	Characteristics of different materials that make them suitable for purpose.
separate	To break into parts or to keep apart.
dissolve	Breaking down of a material into tiny particles to make a solution
sieving	To separate a powder or a liquid by passing it through a sieve
mixing	Combining substances that do not dissolve
reversible	Materials can be changed temporarily and returned to their original state.
irreversible	Materials are changed permanently and a new substance is made.

Prior Learning:

Year 4 - states of matter, the water cycle