

Alchemy Island: Y5 Knowledge Organiser

Subject Specific Vocabulary	
opaque	Light cannot pass through the substance.
transparent	Light can pass through easily and objects are seen clearly
translucent	Will let light, but not detailed shapes pass through them
absorbent	Is able to soak up liquid easily
permeable	Will allow liquids and gases to pass through it.
electrical conductor	A substance that allows electricity to flow through it.
thermal conductor	A substance that allows heat to flow through it.
electrical insulator	A substance that does not allow electricity to flow through it.
thermal insulator	A substance that does not allow heat to flow through it.
magnetic	A metal that is attracted to a magnet.
solution	A liquid into which a solid has been dissolved.
dissolve	When a solute (normally a solid) is incorporated into a solvent (normally a liquid) to make a solution.
filtering	A process of separating an insoluble solid (small particles) and a liquid e.g. sand and water
sieving	A process of separating matter of differing sizes or straining liquids e.g. separating gravel from sand
evaporation	The process of a liquid turning into a gas. E.g. water turning into water vapour.
condensation	The process of a gas turning into a liquid.
reversible change	A change that can be undone, such as changing water into ice.
Irreversible change	A permanent change that cannot be undone, such as changing milk into cheese)

Subject Specific Vocabulary	
soluble	A substance that can dissolve.
insoluble	A substance that is impossible to dissolve.
solute	A substance that can be dissolved in a solvent.
solvent	A substance in which a solute dissolves.
melting	The process of a solid turning into a liquid.
freezing	The process of a liquid turning into a solid.
burning	A scientific reaction that causes an irreversible change.
changing state	The process of a substance changing from one state to another e.g. from a solid to a liquid
solid	A state of matter in which particles are closely packed together in a regular pattern. They vibrate on the spot.
liquid	A state of matter in which particles are close together but random. They can move over each other.
gas	A state of matter in which particles are spread out and can move about quickly in all directions.
prediction	Using scientific evidence to say what might happen next in a scientific experiment
fair test	A test which controls all but one variable when attempting to answer a scientific question.
conclusion	A short paragraph which discusses the overall results of a scientific experiment.

Sticky Knowledge

Properties of Materials

Learn and understand this vocabulary.

States of Matter/Changing State

Learn and understand this vocabulary.

Scientific Enquiry

Learn and understand this vocabulary and use it to plan and carry out my own investigations.