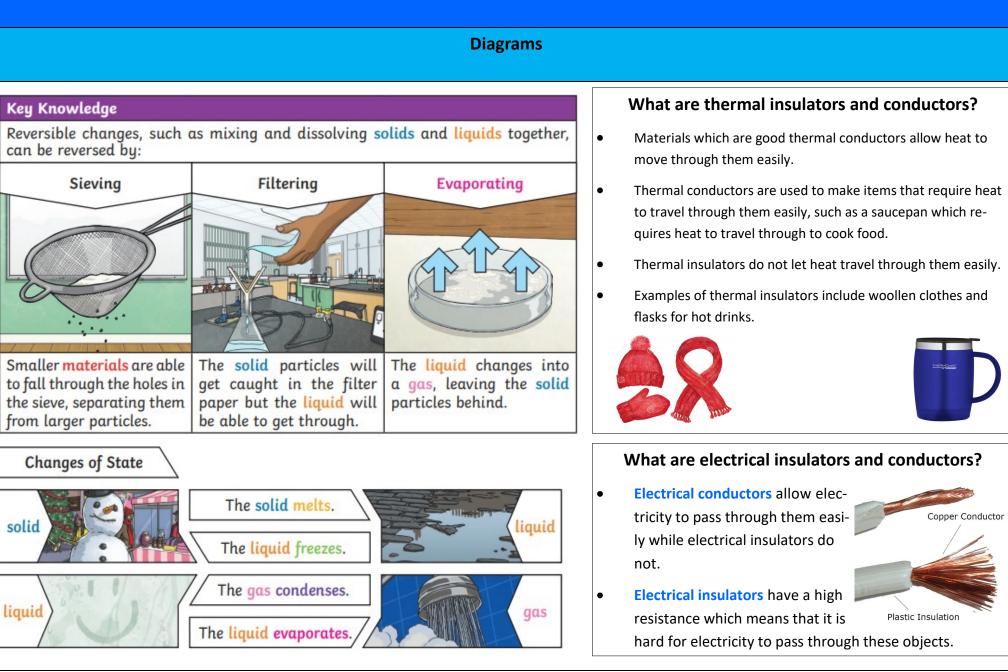
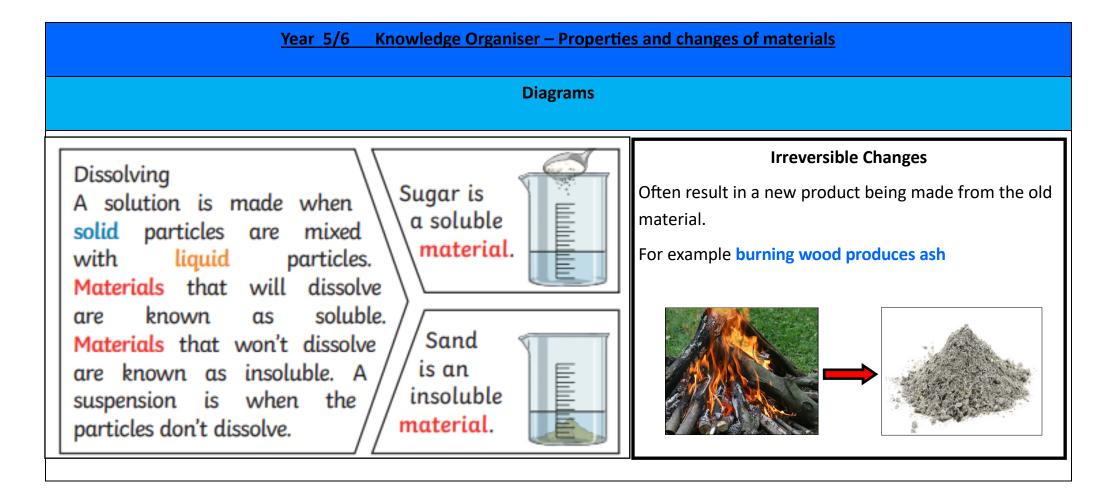
Year 5/6 Knowledge Organiser – Properties and changes of materials

What should I already know? A variety of everyday materials. The physical properties of a variety of everyday materials. How materials are suitably used based on their properties. Key vocabulary		Diagrams				What will I know by the end of the unit?		
		proper	ent materials a ties: electrica agnetism, solut	Compare and group together everyday materials on the basis of their proper- ties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets				
solid	having a firm shape or form that can be measured in length, width, and height; not like a liquid or a gas			For example, glass is used		Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution.		
transparent	If an object is transparent, you can see through it		SUX E	for windows because it is hard and transparent.		Use knowledge of solids, liquids and gases to decide how mixtures might be		
soluble	able to be dissolved.			Oven gloves are made from a thermal insulator		separated, including through filtering,		
dissolves	when a substance is mixed with a liquid			to keep the heat from urning your hand.		sieving and evaporating. Give reasons, based on evidence from		
conductor	a substance that heat or electricity can pass through or along	Materials can be grouped based on their properties using more				comparative and fair tests, for the par- ticular uses of everyday materials,		
thermal	relating to or caused by heat or by chang- es in temperature	Magne		complex vocabulary. Transparent	Permeable	including metals, wood and plastic Demonstrate that dissolving, mixing and		
filtering	a device used to remove dirt or other solids from liquids or gases. A filter can be made of paper, char- coal, or other material with tiny holes in it.	C,				changes of state are reversible changes Explain that some changes result in the formation of new materials, and that		
evaporation	to turn from liquid into gas; pass away in the form of vapour.	Soluble	Insoluble	Impermeable	Flexible	this kind of change is not usually reversible, including changes associated		
condensation	small drops of water which form when water va- pour or steam touches a cold surface, such as a window				20	with burning and the action of acid on bicarbonate of soda.		
irreversible	impossible to reverse, turn back, or change.			1. 20 ×	VV			

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Question 1 - Thermal insulators(tick two)	Start of unit	End of unit	Question 4 -When solid particles mix with the particles of a liquid, this is called	Start of unit	End of unit
A. Do not allow heat to pass through easily			A. Evaporation		
B. Allow heat to pass through easily			B. Filtering		
C. Keep heat contained and keep things warm			C. Dissolving		
D. Do not keep heat contained and allow things to cool			D. Sieving		
Question 2—Examples of electrical conductors are(tick all that apply)	Start of unit	End of unit	Question 5 - A synonym for the word 'permeable' is	Start of unit	End of unit
A. Copper			A. Waterproof		
B. Plastic			B. Magnetic		
C. Wood			C. Absorbent		
D. Iron			D. Trsnsparent		
Question 3 - Materials that dissolve are:	Start of unit	End of unit	Question 6 - Match these changes to the scientific name	Start of unit	End of unit
Question 5 - Materiais that dissolve are.	Start of unit		for the process.		
A. A solution			Ice turns to water condensation		
B. Soluble			Water turns to water vapour melting		
C. Insoluble					
D. All of the above			Water vapour turns to water evaporation		