	Bishop Bronescombe C of E Primary School				
	Topic: Properties and changes of materials	Year 5/6	Strand: Chemistry		
	What you should already know:	By the end of the unit, you should be able to:			
 The physical pro and to compare How materials a How magnets ar Name some mat How shapes of s Materials that ar Some materials of happens. 	•	are transparent) Ind stretching. The at which this ole temperature has we been mixed: ixed based on their t, a filter (for insol-) and evapora- tal components, Iiquid, this is	Know how to group materials based on their properties using scientific vocabulary including: Imagnetic transporent feesible Imagnetic soluble Imagnetic transporent feesible Imagenetic transporent feesible Imagenet feesible Imageneti		

Key Vocabulary			Key Vocabulary	
Word	Meaning	solid particles particles particles particles	Word	Meaning
conductor	A substance that heat or elec- tricity can pass through or along.	Changes of State	sotids	One of the three states of matter. Solid particles are very close together, meaning solids, such as wood and glass, hold their shape.
dissolves	When a substance is mixed with a liquid and the sub- stance disappears.	solid The solid melts.		
filtering	A device used to remove dirt or other solids from liquids or gases. A filter can be made from paper, charcoal, or o ther material with tiny holes in it.	Ine uque prezes Ine u	liquids	This state of matter can flow and take the shape of the con- tainer because the particles are more loosely packed than solids and can move around each oth- er. Examples of liquids include water and milk.
insoluble	Impossible to dissolve espe- cially in a given liquid.	Key Knowledge Reversible changes, such as mixing and dissolving solids and liquids together, can be reversed by:		
insulator	A non-conductor of electricity or heat.	Sieving Filtering Evaporating	gases	One of the three states of matter. Gas particles are further apart than solid or liquid particles and they are free to move around. Examples of gases are oxygen and helium.
irreversible	Impossible to reverse, turn back, or change.			
particles	Particles re tiny bits of matter that make up everything in the universe. They have different particle sizes and properties.	Smaller materials are able The solid particles will The liquid changes into a	melting	The process of heating a solid until it changes into a liquid.
permeable	Of a substance being such that gas or liquid can pass through it.	to fall through the holes in get caught in the filter gas, leaving the solid the sieve, separating them paper but the liquid will particles behind. from larger particles. be able to get through.		
resistance	The opposing power of one force against another.	Irreversible changes	freezing	When a liquid cools and turns into a solid.
reversible	Able to turn or change back.	new product being made from the old materials (reactants).	evaporating	When a liquid turns into a gas or vapour.
soluble	Able to be dissolved.	For example, burning wood produces ash. Mixing vinegar and milk		
thermal	Relating to or caused by heat or by changes in temperature.	produces casein plastic.	condensing	When a gas, such as water va- pour, cools and turns into a liq- uid.