## Year 2/3 Knowledge Organiser Science – Raw and Synthetic Materials

Vocabulary			Raw Materials from underground			Raw Mat	Raw Materials from living things		
1	material	A material is any substance that has a name.	Coal and Oil Sand and clay	Used as fuel for vehicles To make ornaments or for building Used to make hard objects		Plants	Rubber – tyres, balloons, shoe soles Wood – Hard objects and as fuel Cotton – For clothes, towels and sheets Wool - To make cloth Leather – For clothing, footwear and bags Silk – To make clothing and decorations		
2	raw material	A material that is found in nature and that has not been changed by humans.	Copper and iron			Animals			
3	synthetic material	A material that has been made by a human	Synthetic Materials						
			Plastic made fro	m oil	Used as fuel for vehicles	Glass made	from sand	Used to make hard objects	
4	properties	The features of a material that could make it suitable or unsuitable to be used in a particular object.	Paper made from woodFor writing or packaging			Brick made f	rom clay	Strong, see-through objects	
			How to make synthetic materials - examples						
5	function	The use for which an object has been designed.	To make glass:11.Sand can be mixed with some other materials.2.The mixture is heated until it gets very hot and becomes liquid3.The liquid glass is pushed or knocked into the right shape4.The liquid cools down to become solid glass			To make paper:			
6	recycling	The process of collecting and reusing materials to make new synthetic materials.				<ol> <li>Trees are c</li> <li>The trees a</li> <li>Wood chips</li> <li>The paste i</li> </ol>	<ol> <li>Trees are cut down and tripped of their bark</li> <li>The trees are chopped up into wood chips</li> <li>Wood chips are boiled with water to make a paste</li> <li>The paste is squeezed and flattened to remove water</li> <li>The flattened paste is dried and cut to make paper</li> </ol>		
7	malleable	Where a material can be hammered or pressed into shape without breaking or cracking.				5. The nation			
			Recycling – the process of collecting and reusing materials to make new synthetic materials						
8	durable	Where a material can withstand wear, pressure, or damage; hard-wearing	<ol> <li>It is important to recycle for 3 reasons:</li> <li>Raw materials will eventually run out</li> <li>Collecting raw materials can destroy natural habitats</li> </ol>						
9	flexible	Where a material can bend easily without breaking.	3. Throwing away materials fills up landfill sites						
			Live Sustainably by:						
10	sustainable	To live in a way that means humans will have enough materials to live in the future	<ol> <li>Recycling a</li> <li>Only throw</li> <li>Using less</li> </ol>	as many ving awa fossil fue	materials as we can y biodegradable materials els by using less electricity, us	e motorised trar	nsport less a	nd buy food grown locally	