## Science Knowledge Organiser Materials Year Main Foci: Physics

Year 1/2 Autumn 1

There are different materials that are used for different purposes. These materials have different properties.

Some children will know that some materials are used for specific jobs because of their properties — e.g. stretchy, waterproof

Vocabulary			
object	something made using a material		
material	a resource used to make objects		
man made	a material that is changed or made by humans		
natural	a material found in the natural environment		
properties	characteristics that define and differentiate a material		
squash	to push		
bend	to push from both ends		
łwisł	to trun from both ends		
suitable	if something is good for a purpose		

What will I know by the end of the unit?			
What is manmade?	A manmade material is one that is made or change by humans — plastic, paper, glass, brick		
What is natural?	A natural material is one that is found in the natural environment — wool, rock, clay, metal		
What is the difference between a material and an object?	A material is what items are made from e.g. plastic, glass, rock, clay, metal. An object is the item that is made such as a door, spoon, drinking cup, plate. Etc.		
How can we compare and group materials?	By looking at the properties of a material, we can sort them into groups with similar items—e.g. a metal spoon is heavy, so is a brick and a wooden door. A paper plate is flexible, so is a plastic fiddle toy and a metal paperclip.		
	By looking at the properties we can judge if it will be suitable for a purpose — a metal spoon is strong and waterproof so suitable for liquid, a paper spoon would get wet and a stone spoon would be too heavy. A window is made of glass so that it lets the light in, wood would not let light through so would be unsuitable.		
How can solids be changed?	By squashing an object (we push it) we can make something flatter and wider: bending a material (we push both ends) we curve it: twisting a material (turning both ends) makes it twisted.		

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