

## Science Knowledge Organiser Year: 1/2 Term: 2 and 3 Topic: Uses of everyday materials

	Vocabulary	Vocabulary	
ryday	Object	Something that can be seen or felt.	
n it is	material	What an object is made from.	
	property	Helps us to describe a material.	
group the	Suitable	How well it works.	
erties.	Wood	Hard, rigid, strong, opaque, burns.	
	Metal	Strong, hard, bendy, shiny, magnetic, waterproof	
etter can	plastic	Waterproof, strong, can be made into different shapes, can be rough or smooth, can be opaque, transparent or see through.	
ty of can	glass	Waterproof, transparent, hard, rigid, smooth, fragile.	
,	brick	Strong, hard, rigid, waterproof, opaque	
ed	rock	Strong, hard, rigid, opaque	
will ners	paper	Light, flexible, opaque, absorbent, burns	
d	cardboard	Strong, light, rigid, burns	
ed a	fabric	Soft, flexible, can be stretchy, absorbent	
	rubber	Flexible, waterproof, strong, opaque	
e I arge	squash	Push both ends together	
and vel on	bend	Bring both ends towards each other to make a curve shape	
n le	twist	Turn the ends in opposite directions	
that	stretch	Pull ends away from each other	



	Key skills /investigative focus				
	Investigative focus	Which objects can be squashed, twisted, stretched and bent to change their shape			
	Observing closely				
Recording their observations.					
	bend twis	st stretch squash	۱		

## **Big Questions/Challenging Perceptions**



What would happen if all materials were stretchy.

# **Common Misconceptions**

Only fabrics are materials

Only building materials are materials

## Prior knowledge/key knowledge

Prior

Identify and name a variety of even knowledge materials. Distinguish between an object and the material from which from Year 1 made. Describe the simple physical properties of a variety of everyday materials. Compare and a variety of everyday materials on basis of their simple physical prope

#### Key knowledge for Year 1/2

identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses	Some materials are betto suited to be used for certain objects than others. Some objects car be made from a variety of materials i.e. spoons can be made from plastic, metal, wood.
find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.	When objects are squashed, bent, twisted and stretched, some will change shape and others will not. Some return to the original shape and others do not.
Find out about John McAdam.	John McAdam invented a revolutionary road building technique. Previously, roads were muddy or bumpy and dangerous. He used large stones at the bottom and small stones and gravel of the top, to make them strong and smooth. He used curved edges so that water ran off reducing