

Year 2 – Uses of everyday materials (biology, chemistry, physics)		
NC objectives		
Pupils should be taught to:		
• identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic,		
glass, brick, rock, paper and cardboard for particular uses		
• find out how the shapes of solid objects made from some materials can be changed by squashing, bending,		
twisting and stretching.		
Prior learning	Future Learning	
• Distinguish between an object and the material from which it is	• Compare and group together different kinds of rocks on the basis of	
made. (Y1 - Everyday materials)	their appearance and simple physical properties. (Y3 - Rocks)	
• Identify and hame a variety of everyday materials, including wood, plastic, glass, metal, water, and rock. (Y1 - Everyday	magnetic forces can act at a distance. (Y3 - Forces and magnets)	
materials)	• Compare and group together everyday materials on the basis of	
• Describe the simple physical properties of a variety of everyday	their properties, including their hardness, solubility, transparency,	
materials. (Y1 - Everyday materials)	Properties and changes of materials)	
• Compare and group together a variety of everyday materials on the basis of their simple physical properties (Y1 - Everyday	• Give reasons, based on evidence from comparative and fair tests, for	
materials)	the particular uses of everyday materials, including metals, wood and	
	plastic. (Y5 - Properties and changes of materials)	
Key vocabulary	Common misconceptions	
Names of materials – wood, metal, plastic, glass, brick,	Some children may think:	
rock, paper, cardboard	• only fabrics are materials	
Properties of materials – as for Year 1 plus opaque,	• only building materials are materials	
transparent and translucent, reflective, non-reflective,	• only writing materials are materials	
flexible, rigid	• the word rock describes an object rather than a material	
Snape, pusn/pusning, pull/pulling, twist/twisting,	• soua is another word for hard.	
squusi / squusi ui y, bei ui/ bei uui y, su euri/ su euri ui y		



Areas of enquiry		Hook suggestions	
٠	Observation over time – what will happen to our snowman?	Books	
	Will a paper boat float forever?	The Grumpalump by Sarah Hayes & Barbara Firth	
•	Comparative and fair testing - Test the properties of	'Granny' poem by Spike Milligan – What materials would be	
	materials for particular uses e.g. compare the stretchiness of	best to protect Granny from the wind?	
	fabrics to select the most appropriate for Elastigirl's		
	costume, test materials for waterproofness to select the most	<u>Scenarios</u>	
	appropriate for a rain hat.	Scenario – Robert says that if you try hard enough, any	
•	Identifying and classifying – sort and classify materials	material can be squashed and bent. (Identifying, grouping &	
	according to their properties.	classifying)	
•	Pattern seeking – do magnetic materials always conduct		
e	electricity?		
•	Researching using secondary sources – how have the		
	materials we use changed over time?		