



Materials – Changing Shape		
Unit Overview	Objects are made from a variety of materials. They have different properties and are used for different purposes because of these. The shape of many materials can be changed.	
Prior Learning/ Links	EY – Describe objects and materials. Group objects and materials according to specific properties. Discuss why things change. Y1 – Difference between an object and the material it is made from. Identify and name a variety of everyday materials. Describe the properties of materials. Group materials according to their properties.	
Unit Title:	Substantive Knowledge	Disciplinary Knowledge
Key Questions: How can we change materials? Can all materials be changed? Would a plastic bag be good for mopping up a spilt drink?	<ul style="list-style-type: none"> • Different materials can be used for different purposes. Children will be able to name several of the uses below: - wood is used for doors, tables, furniture, garden furniture, ornaments, boats. - plastic can be used for toys, pens, rulers, plates for young children, cutlery, bags, bottles. - glass can be used for windows, spectacles, jars - metal can be used for coins, cars, engines, cutlery, jewellery - brick can be used to build walls and houses - rock can be used for garden decoration, to build walls. - paper is used for books, bags, wrapping paper - card can be used for greetings cards, boxes • Some objects are made from several materials and not just one. • There have been many inventors who created new materials over time: Stephanie Kwolek, John Dunlop. • Some materials are absorbent which means they can soak up liquids. • What materials would be good at mopping up a spillage? Children can identify some absorbent materials. • Materials can change shape through squashing, bending, stretching and twisting. • Children know that we can ask questions and investigate findings. • Children know some equipment we can use to measure and record. 	Questioning and Planning Talk about why materials are chosen for a specific purpose. Observation and Measurement Measure the absorbency of different materials. Recording and Presenting Grouping materials according to their properties Sort results onto a table. Compare results on a venn diagram. Analysing and Evaluating Identify why materials are good for a specific purpose.
Vocabulary	Trips/ Visits/Useful Websites/ Resources	Key Misconceptions:
Substantive:	Year 2: Uses of Everyday Materials STEM	That materials are objects – clarity about the difference.



<p>wood, plastic, metal, brick, rock, paper, card, material, squashing, bending, stretching, twisting, absorbent, properties, material, raw materials, object, transparent, waterproof, hard, stretchy, soft, opaque, moulded, rigid, solid Disciplinary: change, description, (graph/ table/ results/ observation/ sort/ group/</p>	<p>Materials - Year 1/2 - P2/3 - Science Collection - Home Learning with BBC Bitesize - BBC Bitesize</p> <p>Stephanie Kwolek - Biography, Facts and Pictures (famousscientists.org)</p> <p>John Boyd Dunlop - Students Britannica Kids Homework Help</p>	
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