

	Year 1 – Comparing Materials (Materials and changes of state)
Links made with	DT – textiles puppets
other subjects	
The BIG Question	How are things different?
The BIG Outcome	Explain to their partners/ groups/class the difference between a few materials
Science objectives	-Describe the simple physical properties of a variety of everyday materials.
(link to NC)	-Compare and group together a variety of everyday materials on the basis of their
	simple physical properties. Children already know:
Prior knowledge What prior knowledge is	EYFS – Understanding the world - Children know about similarities and differences in
needed for children to be	relation to places, objects, materials and living things. They talk about the features of
successful in this unit?	their own immediate environment and how environments might vary from one
	another. They make observations of animals and plants and explain why some things
	occur and talk about changes.
Future learning	This unit gives prior knowledge to:
Consider the conceptual	Yr 2 - Changing shape and Uses of materials
knowledge within a	Yr 4 - Changes of State
subject that pupils need	Yr 5 - Separating mixtures, Types of Change and Materials
for future learning not just the recall of facts but	
the importance of	
concepts	
Science strands	Related Enquiry Questions
	Classifying
	Classify objects made from the same material (e.g. lots of things made from
	plastic).
	Classify one object made from different materials (e.g. cups made of different
	materials).
	Classify different fabrics based on texture (e.g. to make a feely-book for a child).
	Classify paper/plastics/fabrics.
	Observing over time Not relevant
	Pattern Seeking
	<u> </u>
	Not relevant
	Comparative testing
	- Test objects made of different materials to see how effective they are e.g. umbrellas/hats/coats for waterproofness, cloths/nappies for absorbency, socks for
	elasticity, bounciness of balls, sunglasses for protection from the sun, picnic plates
	for stiffness, door mats for wiping your feet, different papers for writing
	on/painting etc.
	Researching
	Not relevant
Vocabulary/	Object, material, wood, plastic, glass, metal, water, rock, brick, paper, fabric, elastic,
Glossary	foil, card/cardboard, rubber, wool, clay
	hard, soft, stretchy, stiff, bendy, floppy, waterproof, absorbent, breaks/tears, rough,
	smooth, shiny, dull, see-through, not see-through
Knowledge	The knowledge that children will learn and remember:
(see italics for knowledge	
to remember)	1. Materials can be described by their properties e.g. shiny, stretchy, rough etc.
	2. Some materials e.g. plastic can be in different forms with very different



Science Scheme of Work

	3. Example strong plastic forks, slides, toys vs flimsy plastic forks/knives. Or water bottles vs chairs
SEND expectations	 Materials can be described by their properties e.g. shiny, stretchy, rough etc. Can think of some materials that fit each above property
Common	Some children may think:
Misconceptions	 only fabrics are materials only building materials are materials only writing materials are materials the word 'rock' describes an object rather than a material 'solid' is another word for hard.