

Lesson Intention	National Curriculum Reference	Scientific Enquiry Covered	Scientific Vocabulary	Resources Needed
Week 1 Prior Knowledge Quiz Identify different materials and their uses.	Identify and compare the suitability of a variety of everyday materials	Using their observations and ideas to suggest answers to questions	material property suitable object brick	Objects from around the classroom. (Resources from old wk 5 added to the folder - also see pg24 - exemplification document)
Week 2 Understand how to select the right materials to build a bridge	Identify and compare the suitability of a variety of everyday materials	Performing simple tests	bridge triangle obstacle structure construction	Two books, a range of weights, variety of materials to create a bridge - aluminium foil, card, paper, wood, string, masking tape
Week 3 Explore and test the stretchiness of materials	Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching	Gathering and recording data to help in answering questions	stretchy elastic floppy hinder limit	A variety of materials of different stretchiness (e.g. cotton, wool, nylon...), tape measure or ruler; scissors, marbles, yoghurt carton, string, paper clips.
Week 4 Understand that materials can change their shape by twisting, bending, squashing or stretching (Links with Pizza Express trip - How can we change the shape of materials - dough)	Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching	Using their observations and ideas to suggest answers to questions	bend twist squash stretch force	A variety of materials which can be twisted, bent, squashed or stretched (e.g. plasticine, wool, foil)
Week 5 Find out about Charles Macintosh and explore how materials are suitable for different purposes	Identify and compare the suitability of a variety of everyday materials	Performing simple tests	mackintosh protective fluorescent safety waterproof	Four different sheets of fabric (tissue, tinfoil, clingfilm, plastic, wool fabric, nylon), beaker, elastic band, one tray per table, syringe per group, water (Could use Science exemplification document pg 26 - Teddy Bears coat)
Week 6 End of Unit Assessment Quiz Discover which materials change shape when making a road with John Mcadam	Identify and compare the suitability of a variety of everyday materials	Performing simple tests	John McAdam merchant bound highway road	Chocolate, microwave, clingfilm, raisins, digestive biscuits crushed to various sizes, heatproof tray. (Resources from old wk 4 added to the folder could be used instead of the above)

