



Autumn 1		Use of everyday materials				
<b>Prior learning</b>						
<b>Lesson objective</b>	Identify different materials and their uses.	Understand how to select the right materials to build a bridge.	Explore and test the stretchiness of materials.	Understand materials can change their shape by twisting, bending, squashing or stretching.	Learn about Charles Macintosh and explore how materials are suitable for different purposes.	Discover which materials change shape when making a road with John McAdam.
<b>Key vocabulary</b>	Material, property, suitable, object, brick	Bridge, triangle, obstacle, structure, construction	Stretchy, elastic, floppy, hinder, limit	Bend, twist, squash, stretch, force	Mackintosh, protective, fluorescent, safety, waterproof	John McAdam, merchant, bound, highway, road
<b>Creative context</b>						
<b>Substantive knowledge</b>	Identify and compare the suitability of a variety of everyday materials	Identify and compare the suitability of a variety of everyday materials	Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching	Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching	Identify and compare the suitability of a variety of everyday materials	Identify and compare the suitability of a variety of everyday materials
<b>Disciplinary knowledge</b>	Using their observations and ideas to suggest answers to questions.	Performing simple tests.	Gathering and recording data to help in answering questions.	Using their observations and ideas to suggest answers to questions.	Performing simple tests.	Performing simple tests.
<b>Recorded learning</b>	Draw a range of classroom objects and label the materials they are made from.	Build bridges and test weights using range of materials. Photo in book and written reflection.	Stretchiness investigation (see Developing Experts)	Bend, stretch, squash and twist materials recording results in a table.	Waterproof investigation – design a coat for a construction worker.	Build a chocolate road investigation (see Developing Experts)
<b>Future learning</b>	Year 5 science, properties of materials. Y2 DT					