



Year 2 Science Autumn 1 Unit

Uses of Everyday Materials

Key Scientific Skills	Year 2 Uses of everyday materials
Asking simple questions and recognise that they can be answered in different ways	
Observe closely, using simple equipment	
Perform simple tests	
Identify and classify	
Using their observations and ideas to suggest answers to questions	
Gather and record data to help in answering questions	

Lesson Sequence

-  1. Identify different materials and their uses
-  2. Understand how to select the right materials to build a bridge
-  3. Explore and test the stretchiness of materials
-  4. Understand materials can change their shape by twisting, bending, squashing or stretching
-  5. Learn about Charles Macintosh and explore how materials are suitable for different purposes
-  6. Discover which materials change shape when making a road with John McAdam



Progression of Knowledge

Unit	YEAR 1	YEAR 2	YEAR 5
Materials	Distinguish between an object and the material from which it is made Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock Describe the simple physical properties of a variety of everyday materials Compare and group together a variety of everyday materials on the basis of their simple physical properties	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	Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including

Rocket Words

material	anything that is used to make something else
property	the way in which a material is described
obstacle	something that blocks the way
construction	the process of building something

Materials

material	uses
wood 	window frames, furniture, buildings, floors
metal 	furniture, buildings, statues, pipes, jewellery
plastic 	containers, toys, bags, pipes
brick 	walls, floors

rock 	roads, garden paths, floors, kitchen tops
paper 	toilet roll, writing paper, newspaper, cardboard
glass 	drinking glasses, windowpanes, television screens

Rocket Words

stretchy	something that can pull apart without breaking; elastic
elastic	something that can pull apart without breaking; stretchy
force	a pressure applied to something that makes it change shape or move
bend	to shape or force something into a curved shape

Forces

