

Uses of materials

Wood can be used for:	doors, tables
Plastic can be used for:	pens, rulers
Glass can be used for:	windows, glasses
Metal can be used for:	cars, coins
Rock can be used for:	garden walls, old buildings
Rubber can be used for:	tyres,
Brick can be used for:	houses, walls
Paper can be used for:	books, wrapping paper
Card can be used for:	folders, birthday cards
Fabric can be used for:	clothes, towels

Different materials for the same object

Some objects can be made from various materials	For example, a fork can be made from: plastic, wood or metal.
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Inventors

John Dunlop	He was born in 1840. He was an expert in rubber. He invented the first inflatable tyre.
Charles Macintosh	He was born in 1766. He invented the first waterproof fabric. The 'mac' raincoat is named after him.

Names of materials

wood, plastic,
glass, metal, water,
rock, rubber, brick,
paper, card, fabric

Key Vocabulary and Phrases

Various	Lots of different kinds
Inflatable	Can be filled with air
Rubber	A tough material that can be shaped
Fabric	Cloth produced by weaving or knitting

Changing the shape of materials

squashing



bending



twisting



stretching



Year 2

Science

Working Scientifically – Uses of Everyday Materials

Key Vocabulary and Phrases

ask questions	Use the question words What, where, when, why, how
compare and contrast	Look at two or more objects and describe similarities (what is the same) and differences (what is different)
classify, sort and group	Organise objects by their features and properties (e.g. colour, size, shape).
diagram	A labelled picture
observe	Look at and notice changes
predict	To say what I think will happen
record data	Drawings, scientific diagrams, photos, classification keys, tables, bar graphs and line graph, writing and numbers are ways to show what I have found out.
reporting and presenting findings	Giving reasons, explaining causes and relationships, explaining results and trusting its accuracy
variable	Something that you are able to change or adapt for example, temperature, position

How I could record my findings

Pictures For EXPLORING



Use this if you want to tell the story of what you did or what you observed, e.g. bread going mouldy

Table For FAIR TESTING/PATTERN SEEKING

What I Change	What I measure

Use this to record your information. You can transfer it into some of the other forms as well. It could be all numerical or words

Carroll Diagram For CLASSIFYING/GROUPING

	Red	Blue
Square		
Triangle		

Use this when you want to put objects into categories for having a property or not, e.g. prime/not prime numbers against even/not even (odd) numbers

What I could investigate

Which material would be best for an umbrella?

Will the amount of water affect our results?



How properties of materials can be changed.
Does wax affect absorbency?



Equipment I could use

Variety of materials



Measuring cylinders



Cups of water



Wax crayons

