




What? (Key Knowledge)	
Properties of Materials	
Wood	Hard, strong, stiff
Plastic	Strong, shiny, bendy
Glass	Transparent, smooth, stiff
Metal	Hard, strong, shiny
Water	Runny, wet, clear
Rock	Hard, strong
Uses of common 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
Brick can be used for:	Houses, walls
Paper can be used for:	School books, wrapping paper
Card can be used for:	Folders, birthday cards
Different materials for the same thing	
Some objects can be made from various materials	For example, a spoon can be made from: plastic, wood or metal.
Changing the shape of materials	
Squashing	Crush something so that it becomes flat, soft, or out of shape
Bending	Changing a straight object so that it is curved.
Twisting	Change the shape of an object by turning it.
Stretching	Made longer or wider without tearing or breaking
People we need to know	
John Dunlop	<ul style="list-style-type: none"> Born in 1840 An expert in rubber Invented the first inflatable tyre
Charles Macintosh	<ul style="list-style-type: none"> Born in 1766 Invented the first waterproof fabric The 'mac' raincoat is named after him
John McAdam	<ul style="list-style-type: none"> Born in 1756 He invented building roads with a smooth, hard surface.





What? (Key Vocabulary)	
Spelling	Definition/Sentence
opaque	a material thing that you cannot see through
transparent	a material thing that you can see through
reflective	a material that throws back light or heat
translucent	you can partially see through this
flexible	capable of bending easily without breaking
rigid	unable to bend or be forced out of shape/not flexible
shape	the outline of someone or something

Take it further at home...

- Spot and group the materials you can find in your local area
- Find an object in your house that exists in 3 or more different materials e.g curtains
- Find an object that is made from 3 or more materials
- Fill in the vocabulary chart – try and do this from memory with them!

Diagram and symbols

Squashing	Twisting
	
Bending	Stretching
	

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