

Year 2 Science Knowledge Map: Use of Everyday Materials

Key Vocabulary	
Materials	Are what objects are made from.
Suitability	Means having the properties that are right for a specific purpose.
Properties	This is what a material is like and how it behaves (soft, stretchy, waterproof).
Rigid	Unable to bend or force out of shape. Not flexible.
Flexible	Bending easily without breaking.
Stretchy	Able to stretch or be stretched easily.

Squash an object by closing hand



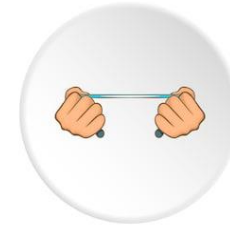
Twist an object by turning your hands in opposite directions



Bend an object by grabbing the end of the object and bringing the end together



Stretch an object by pulling your hands slowly and gently apart.



Properties and Uses of Materials		
Material	Properties	Some of the Uses
Wood	Hard, stiff, strong, opaque. Can be carved into any shape.	Fuel, making tools, making furniture and paper. In the construction industry for doors, floors, windows and fencing. Making musical instruments.
Glass	Waterproof, transparent, hard, smooth.	To drink out of glass cups, window panes, windscreens on cars, in doors, storage containers.
Plastic	Waterproof, strong, can be made to be flexible or rigid, smooth or rough.	Bottles, drums, trays, boxes, cups and protection packaging. Plastic is used in mobile phones, TVs, computers and bike helmets.
Metal	Strong, hard, easy to wash.	Uses from a paperclip to making aeroplanes. Cooking pans, radiators, knives, forks, spoons, coins, cans, chains, nuts and bolts, screws, in jewellery, in computers.
Paper	Lightweight and flexible.	In books, writing on.
Cardboard	Strong, light, stiff	Packaging, boxes, egg box, tubes for kitchen roll.
Brick	Strong, rigid, hard. Can be smooth but typically rough.	To build houses, walls.
Rock	Strong, rigid, hard.	Used in building, glass making, in cement.
Rubber	Hard wearing, elastic, flexible, strong, waterproof.	Car tyres, rubber bands, swimming hats, wetsuits for surfing/
Fabric	Soft, flexible, hard wearing, can be stretchy, warm, absorbent	Clothes, curtains. Quilts, to cover furniture (used on settee etc)

