

## YEAR 2 - TOPIC: MATERIALS

This is what we are learning science this term.

### Key Vocabulary

materials	Materials are what things are made from.
properties	This is what a material is like and what it can do.
suitability	This means having the right properties for a specific job.
rigid	Hard to bend, squash, twist, stretch.
flexible	Can bend, squash, twist, stretch.
opaque	Cannot see through it.
transparent	Can see through it.

### Natural material

Materials 'found' in the world around us.



### Man-made materials

Materials made by people or machines.



### Key Knowledge

Material	Properties	Suitable for:	Not suitable for:
wood 	hard, rigid, strong, opaque, can be carved into different shapes	wardrobes fences	windows gloves
plastic 	waterproof, strong, can be flexible or rigid, smooth or rough	toys bottles	pans socks
glass 	waterproof, transparent, hard, smooth	windows fish tanks	chairs bags
metal 	strong, hard, conducts heat (gets hot easily), is easy to clean	cutlery radiators	hats carpets
paper 	light weight, flexible, smooth	books, wrapping presents	umbrella blankets
rubber 	flexible, strong, hardwearing	tyres elastic bands	gate hammer
fabric 	soft, flexible	clothes curtains	plate ruler

Materials can be changed by **squashing**, **bending**, **twisting** or **stretching** them.



**Squash** an object by pushing both hands together.



**Bend** an object by grabbing both ends and bringing them towards each other.



**Twist** an object by turning your hands in opposite directions.



**Stretch** an object by pulling your hands slowly apart.