

What do I already know?

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. (Y1 - Everyday materials).

Science : YEAR TWO, AUTUMN 2

BIG IDEA: Which material and why?

KEY VOCABULARY

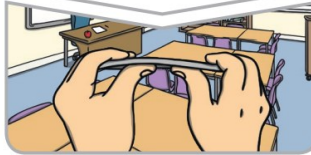
Materials	Materials are what objects are made from.
Suitability	Suitability means having the properties which are right for a specific purpose.
Properties	This is what a material is like and how it behaves (soft, stretchy, waterproof).
Transparent	You are able to see through the object.
Waterproof	The object does not let water seep through.
Raw materials	The basic material from which a product is made.
Synthetic materials	Materials that are man-made and have been changed using chemicals in order to be used.
The 3 Rs	Reduce— make smaller or less in amount. Re-use— When an object is repurposed into a different object. Recycle— change (waste) into reusable material.

Key properties and their definitions

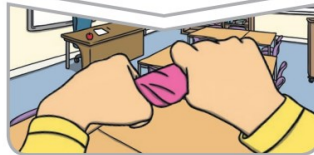
Squash an object by pushing both hands together.



Bend an object by grabbing both ends of the object and bringing the ends inwards together.



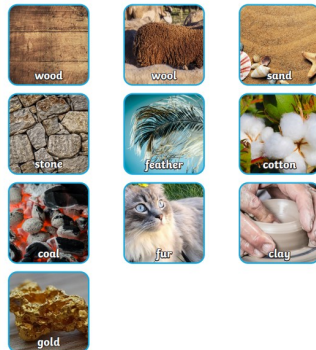
Twist an object by turning your hands in opposite directions.



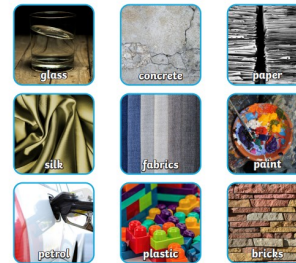
Stretch an object by pulling your hands slowly and gently apart.



Raw



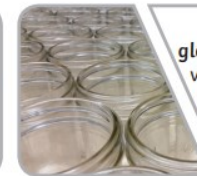
Man-Made



Properties of different materials



wood:
hard, stiff, strong, opaque, can be carved into any shape.



glass:
waterproof, transparent, hard, smooth.



plastic:
waterproof, strong, can be made to be flexible or stiff, smooth or rough.



metal:
strong, hard, easy to wash.



paper:
lightweight, flexible.



cardboard:
strong, light, stiff.



fabric:
soft, flexible, hard-wearing, can be stretchy, warm, absorbent.



rubber:
hard-wearing, elastic, flexible, strong.

Reuse



Recycle



Reduce

