



Science Knowledge Organiser - Year 2 Materials Monster

Key Knowledge

Knowing that the word **material** means what an object is made from.

Knowing that objects are made of one or more materials that are chosen specifically because they have suitable properties for the task.

Properties of Materials

wood	hard, strong, stiff
plastic	strong, shiny, bendy
glass	transparent, smooth, stiff
metal	shiny, strong, hard
paper	flexible. Not water-proof

Uses of common materials

Wood	doors, tables
plastic	cups, bowls
glass	windows
metal	forks, gate
brick	houses, walls

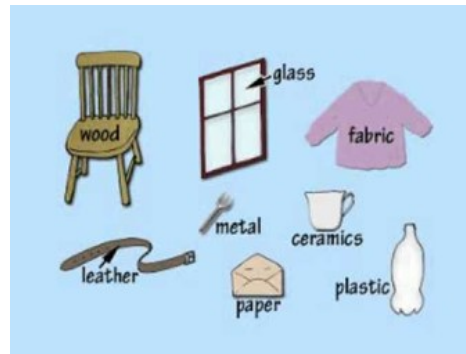
Different materials can be used to make the same thing for example a spoon can be made of plastic or wood.



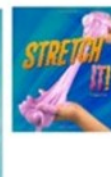
Diagrams

Different materials

Objects made of some materials can be changed in shape by bending, stretching, squashing and twisting. For example, clay can be shaped by squashing, stretching, rolling, pressing etc. This can be a property of the material or depend on how the material has been processed e.g. thickness.



Sometimes materials can be changed by squashing, bending, twisting and stretching.



Key Vocabulary

Materials	Materials are what objects are made from
suitability	Suitability means if a material is right for a specific purpose
properties	This is what a material is like and how it behaves
opaque	A material that does not allow light to pass
Transparent	Objects behind it can be seen clearly
Translucent	A material which allows light to pass through but it is not clear
flexible	The shape can easily be changed
rigid	A material that is fixed in shape
absorbent	An object that soaks up water
Waterproof	An object that doesn't allow water through

Prior knowledge from Year 1

Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock. Distinguish between an object and the material from which it is made. 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.