

Vital Vocabulary

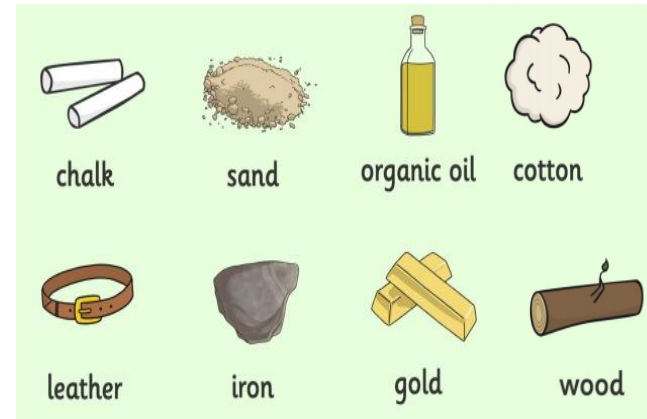
Key Word	Definition
Bend	Changing a straight object so that it is curved
Man-made	Natural materials that have been changed by humans
Material	The substance that an object is made from
Natural	Materials that are found naturally in the world around us
Property	How a material behaves and appears
Purpose	What an object or material can be used for
Squash	Crushing an object so that it is flat, soft or out of shape
Stretch	Making an object longer and wider, without tearing or breaking
Suitability	Having the right properties for a certain purpose

Types of materials

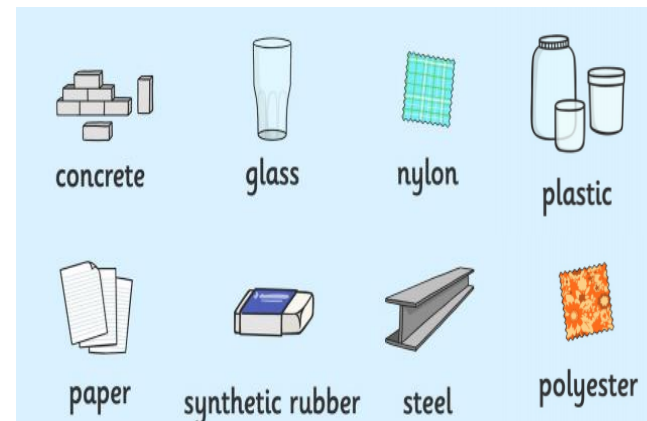
Some **materials** are found **naturally** in the environment (such as wood and rock).

Other **materials** are **man-made** (such as fabric, paper and glass).

Examples of natural materials



Examples of man-made materials



Properties of materials

A **property** is how a **material** behaves and appears. For example, wood is dull, opaque and not bendy. Different **materials** have different **properties**.



hard



soft



stretchy



stiff



shiny



dull



rough



smooth



bendy



not bendy



absorbent



not absorbent



waterproof



not waterproof



transparent



opaque

Some **materials** are more **suitable** than others for making certain objects. This is called **suitability**.



For example, glass is more **suitable** than wood when making window panes, as it is transparent.

Charles Mackintosh
(1766 – 1843)

Invented the mackintosh
waterproof raincoat.



Changing the shape of materials

There are four ways to change the shape of a **material**. Some **materials** cannot be manipulated.

Some materials can be **stretched** by holding the material and gently pulling both hands apart.



Some materials can be **bent** by holding both ends of the material and bringing them inwards.



Some materials can be **twisted** by holding the object and twisting your hands in opposite directions.



Some materials can be **squashed** by holding the material and pushing both hands together.

