



Science Focus:

Materials

Year 1

Term:

## Materials

What does material mean?

All objects have a name like 'a door'.  
Material is the 'stuff' an object is made from.

Everyday materials you need to know

- Wood
- Plastic
- Glass
- Metal
- Water
- Rock

## Names of some common properties of materials

Hard	Not easily broken
Soft	Easy to cut, fold or change shape
Stretchy	Can be made longer or wider without breaking
Stiff	Doesn't change shape easily
Shiny	Reflects light easily
Dull	Not very bright or shiny
Rough	Has an uneven surface
Smooth	An even surface with no lumps or bumps
Bendy	Can be bent easily
Waterproof	Keeps out water
Absorbent	Soaks up liquid easily
Transparent	Easy to see through
Opaque	Not able to see through

## What? (Key Vocabulary)

Spelling	Definition/Sentence
Properties	A way to describe something
Material	The 'stuff' an object is made out of.
Surface	An outside part or layer of something.
Object	A thing that can be seen and touched.

## All matter in the Universe is made of very small particles

Different materials are recognised by their properties, some of which are used to classify them.

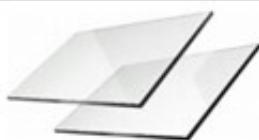
## Diagrams and Symbols



Wood



Plastic



Glass



Metal



Water



Rock

## Comparing and Grouping Materials

You can put materials into different groups by answering these questions about the material.

- Hard or Soft?
- Stretchy or Stiff?
- Shiny or Dull?
- Rough or Smooth?
- Bendy or Not Bendy?
- Waterproof or Not waterproof
- Absorbent or Not Absorbent?
- Transparent or Opaque?

## Some common materials and their properties

Wood	Hard, strong, stiff
Plastic	Strong, shiny, bendy
Glass	Transparent, smooth, stiff
Metal	Hard, strong, shiny
Water	Runny, wet, clear
Rock	Hard, strong

## Working as a Scientist

- Find out the best materials to make an umbrella, a bookshelf...
- Use 'feely bags' to describe the properties through touch alone.
- Can we find an example of rough plastic, smooth plastic, transparent plastic, opaque plastic...