

# Science - Bricks, Sticks and Other Bits

## Properties of Materials


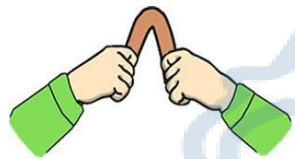




### Key Vocabulary

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 e.g. soft, stretchy or waterproof.

### Properties of different materials

<p>Wood</p>  <p>Hard, stiff, strong, opaque, can be carved into shape.</p>	<p>Glass</p>  <p>Waterproof, transparent, hard and smooth</p>
<p>Plastic</p>  <p>Waterproof, strong, can be made to be flexible or stiff smooth or rough.</p>	<p>Metal</p>  <p>Strong, hard, easy to wash.</p>
<p>Paper</p>  <p>Lightweight, flexible</p>	<p>Cardboard</p>  <p>Strong, light and stiff</p>
<p>Fabric</p>  <p>Soft, flexible, hard wearing, can be stretchy, warm, absorbent</p>	<p>Rubber</p>  <p>Hard wearing, elastic, flexible, strong</p>

<p>Squash an object by pushing both hands together or down hard on object.</p> 	<p>Bend an object by grabbing both ends of the object and bringing the ends inwards together.</p> 
<p>Twist an object by turning your hands in opposite directions.</p> 	<p>Stretch an object by pulling your hands slowly and gently apart.</p> 

# Bricks, Sticks and Other Bits

## Significant People

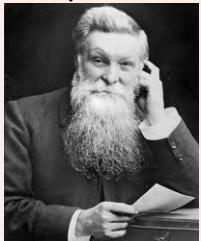
John McAdam



John McAdam was a Scottish engineer who experimented with using new materials to build roads, inventing a new process called 'Macadamisation'. The name tarmac means a road made like this using tar.



John Dunlop



John Dunlop was a Scottish inventor who invented the air-filled rubber tyre. It was originally invented in 1887 to use with bicycles, and then became very useful when automobiles were developed.



Charles Macintosh



Charles Macintosh was a Scottish investor and chemist who invented waterproof fabrics in 1818. The Mackintosh raincoat was introduced in 1824.



Metal



Plastic



Leather



Glass



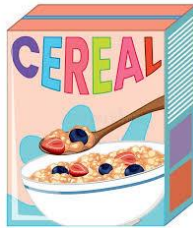
## Materials from around the home



Rubber



Wood

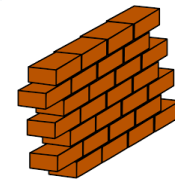


Cardboard



Paper

Brick



## DID YOU KNOW?

Some materials can be used to make the same object.

Which material do you think is most suitable for a spoon?

Could you have glass spoon?

