

# Uses of materials

Materials are what things are made from. There are many everyday materials.

- A material is what an object is made from.
- There are natural materials and human made materials.



baked clay



fabric



glass



metal



paper



plastic



rock



wood

## Properties and their uses

Objects are made from materials with suitable properties.

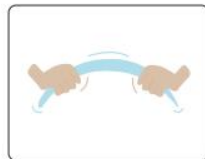
**Object:** chair legs  
**Material:** metal  
**Properties:** Strong and not bendy so the legs won't bend or collapse when a person sits down.



**Object:** chair seat  
**Material:** plastic  
**Properties:** Strong and waterproof so the seat won't break when sat on, and any spills can be wiped off.

## Shaping materials

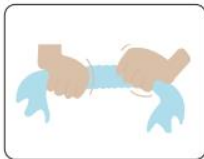
Materials can be shaped by bending, stretching, twisting and squashing.



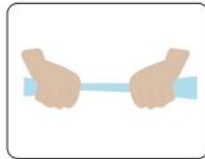
bending



stretching



twisting



squashing



## Reduce, Reuse, Recycle

There are three ways we can save the Earth's natural resources.

**Reduce** the number of objects we buy and the amount of packaging we use.

**Reuse** items like carrier bags and envelopes

**Recycle** as much waste as possible.



## What are properties of materials?

A property is a quality that a material has. They can be one or more:

- absorbent
- not absorbent
- opaque
- transparent
- bendy
- not bendy
- rough
- smooth
- hard
- soft
- stretchy
- not stretchy
- strong
- not strong
- waterproof
- not waterproof



## Vocabulary



<b>Absorbent</b>	An absorbent material easily soaks up liquid.
<b>Opaque</b>	An opaque material stops light from travelling through it, so you cannot see through it.
<b>Transparent</b>	A transparent material allows you to see through it.
<b>Waterproof</b>	A waterproof material.