

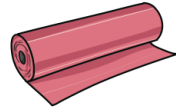
# Materials Knowledge Organiser

All of these **materials** are fantastic. They are each perfectly suited to make **certain objects**.

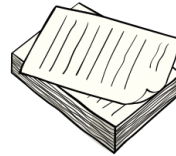
Depending on the task, some materials **are better suited** than others.



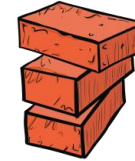
rock



fabric



paper



brick



wood



rubber



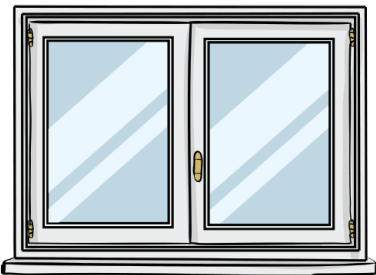
glass



plastic



metal



This is a **window**. Windows are made from **glass**. Glass is see-through which makes it a good material for the window as it lets **light** into your house and allows you to see out. The glass also stops **rain** and wind entering your **house**.



This is a pair of **wellington boots**. They are made from **rubber**. Rubber is **strong, waterproof** and **bendy** which makes it a good material for wellies. They will be **comfy** on your feet, keep your feet **dry** and not damage easily.



## Changing the shape of materials

We can change the shape of some **objects** by —



**squashing** them

**bending** them

**twisting** them

**and stretching** them.

It is useful to be able to **change the shape** of some materials.

Fabric needs to be stretchy so that clothes fit our bodies. Imagine if socks weren't **stretchy**!

Some materials cannot be changed which is also useful.

Brick needs to be **strong and firm**. Imagine if bricks for houses were **bendy**!

## Key Vocabulary

**brick** - a hard, strong and rough material used to build houses

**fabric** - a soft material used to make clothes

**glass** - a hard but fragile material that is usually transparent and is used to make windows

**material** - the matter from which an object is made

**metal** - a material used to make cars, cutlery and some musical instruments; it is usually strong, hard and shiny

**paper** - a material that can easily tear used to make books and wrapping paper

**plastic** - a material used to make bottles, toys and food packaging; it can be strong, but some plastics can also be squashed

**properties** - a characteristic of something

**rock** - a strong and hard material used to make roof tiles

**rubber** - a bendy material used to make car tyres and wellington boots

**wood** - a material made from trees that is used to make furniture

