

## Materials

Materials are used to make objects.

Materials have different properties. A property tells us what something is like or what it can do.

Different materials are sometimes used for the same object. For example, metal, plastic, and wooden spoons.



Glass is used for this cabinet as you can see through it.

Rigid materials, like metal, cannot change shape.

Rigid materials, like this cabinet cannot easily be squashed, bent, twisted, or stretched.

Flexible materials, like fabric, can change shape.

Flexible materials like this bag can be squashed, bent, twisted, or stretched.

## Recycling

Recycling is when materials can be reused and made into new items.

Special symbols on packaging tell you if something can be recycled.



Plastic

- does not rot
- cannot always be recycled
- can end up in the ocean and hurt animals.

Wood is used for tables as it is hard and strong.

The discovery of new materials changes peoples' lives.

- Charles Macintosh invented the first waterproof fabric to keep people dry in the rain.
- George Washington Carver helped farmers make money by inventing paints and plastics from peanuts.
- Stephanie Kwolek discovered Kevlar. It is used in body armour has saved many lives.



Word	Definition
absorbent	An absorbent material soaks up liquid easily.
bend	When you bend something, you make it curved and not straight.
discover	When you discover something, you find it or find out about it.
flexible	Something flexible is easy to bend or stretch.
inventor	A person who invents things.
materials	Material is the stuff that objects are made from.
objects	An object is anything that you can see, touch or hold.
pollution	Pollution is anything that spoils the environment.
properties	Properties are the qualities or characteristics that something has.
recycle	To recycle things means to use them again instead of throwing them away.
rigid	A rigid material is firm or stiff.
scientist	Someone who studies science or is an expert in science.
squash	To squash something is to squeeze it so that it loses its shape.
stretch	When an object is pulled and gets longer, it is stretched.
suitable	Right for a particular person, purpose, or occasion.
twist	To twist something is to bend it out of its proper shape.
unsuitable	Not suitable.