

## 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.

## Recycling

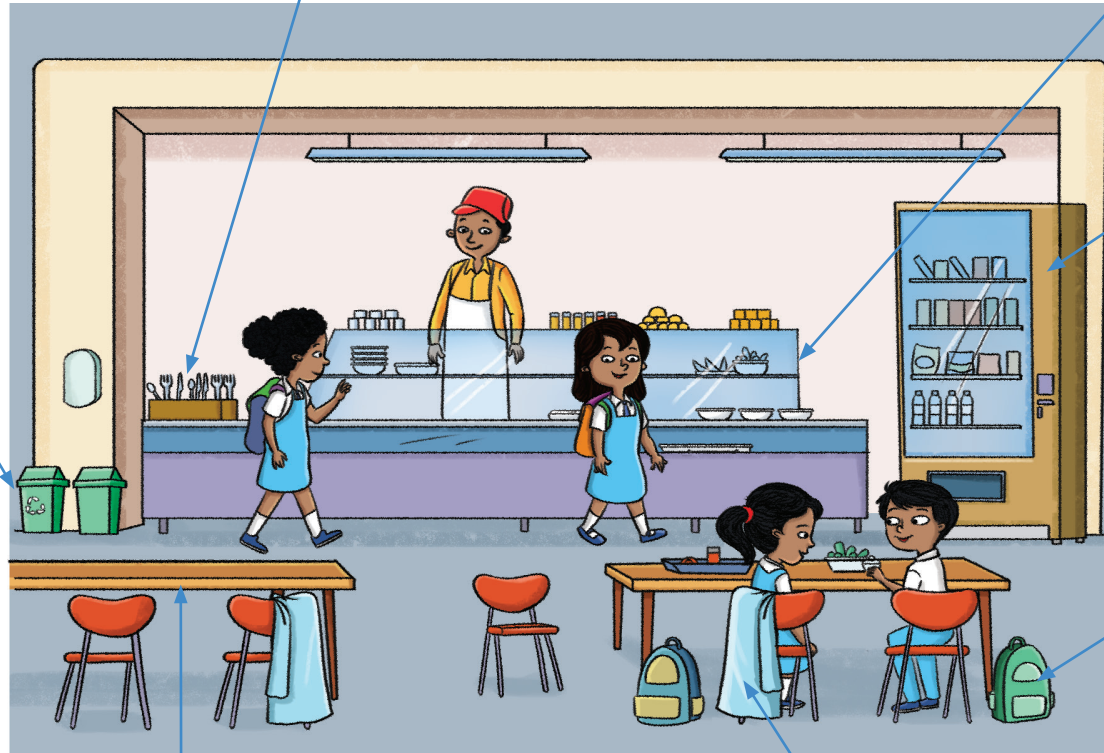
Recycling is when materials can be reused and made into new items.

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.



Flexible materials, like fabric, can change shape.

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

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.  |