

Recycling



Aim

- To find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching in the context of recycling.

Success Criteria

- I can identify materials that can be recycled.
- I can tell you how you can recycle materials.
- I can tell you how plastic materials are sorted and changed into new products.
- I can give reasons why it's important to recycle.
- I can recycle some materials of my own.

What is Recycling?



What does recycling mean?

How can you recycle?

Do you recycle at home? How?

Do you recycle at school? How?

What do you think happens to the materials we recycle?

Is it important to recycle? Why or why not?

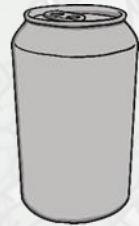




What Can Be Recycled?



- Paper and Cardboard - such as newspaper and cardboard boxes
- Plastic – such as yoghurt pots and milk bottles
- Metal – such as cans
- Glass – such as bottles and jars
- Clothes – such as jumpers and trousers
- Garden Waste - such as grass cuttings
- Food – such as apple cores and leftovers



How to Recycle



Different areas of the country recycle using slightly different systems but the goal is the same - to recycle as much as possible.

How do you recycle at home?

How do you recycle at school?

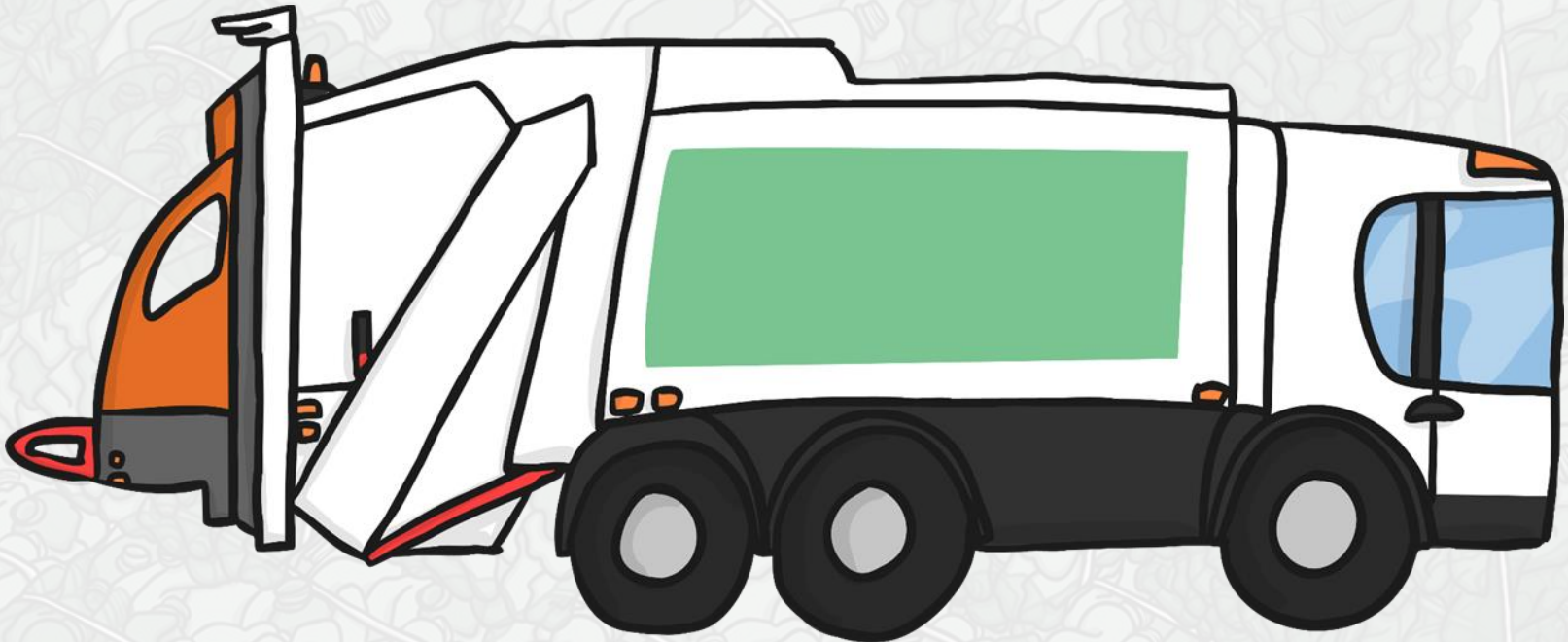


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The Recycling Process

Your household recycling is collected and taken to a recycling depot.



The Recycling Process

The bottles are separated from other rubbish by people, machines or a mix of both.



Plastic Recycling



After the materials have been sorted, they are sent to a reprocessing factory to be recycled and made into new products.

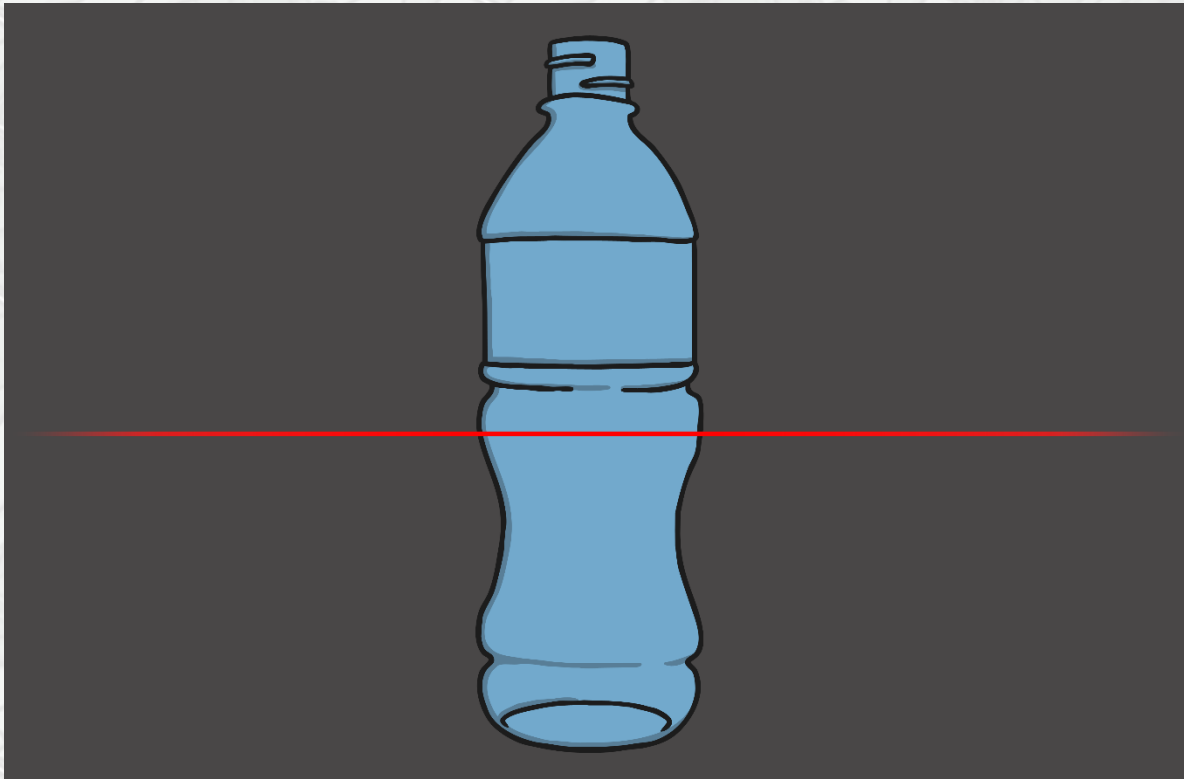
In the reprocessing factory the plastic bottles are washed.



Plastic Recycling



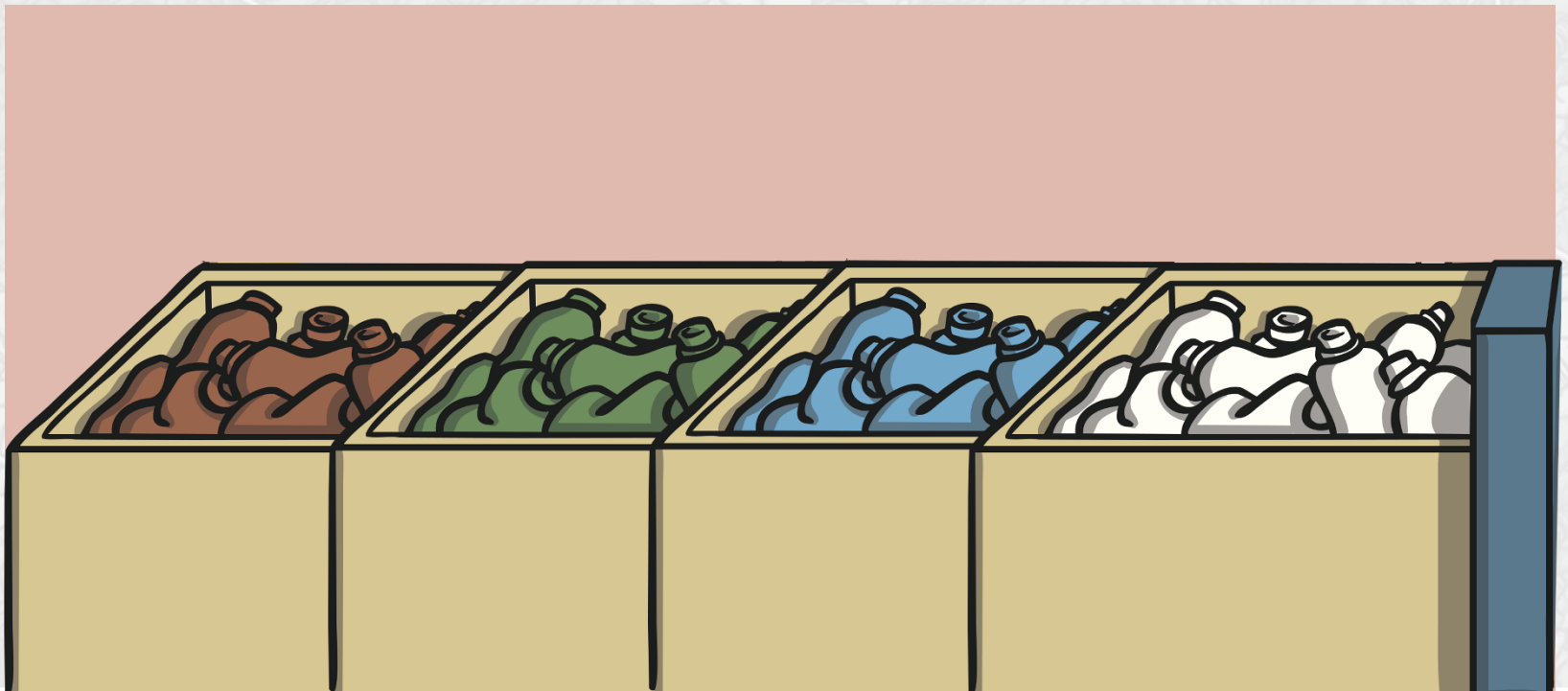
The bottles are then sorted by plastic type using a special process called infrared.



Plastic Recycling



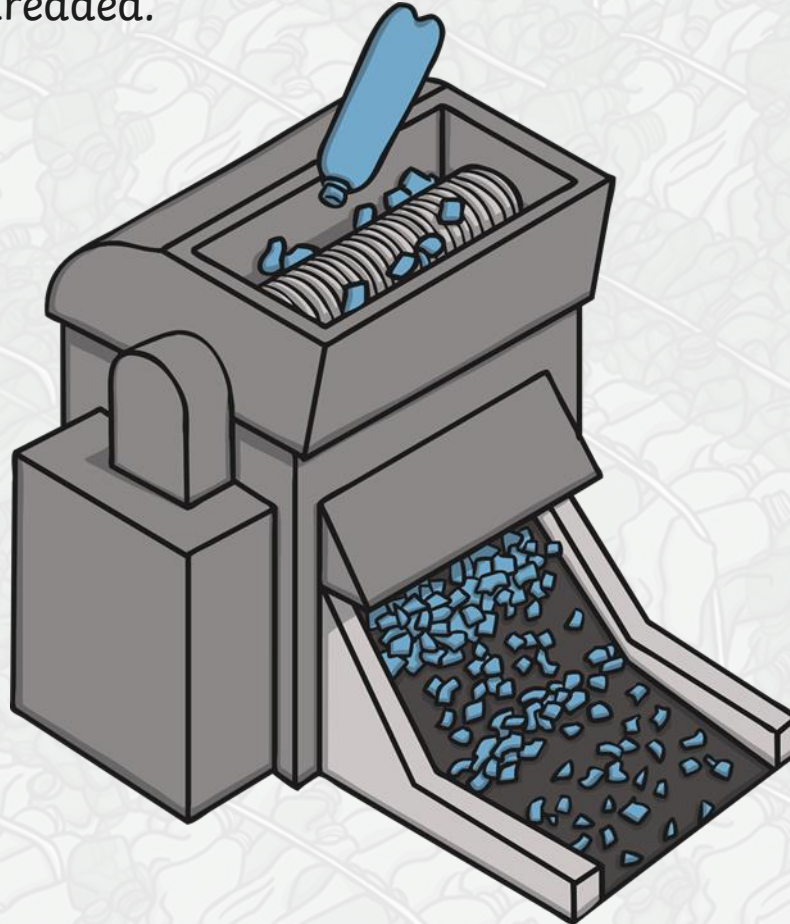
The bottles are then sorted by colour e.g. brown, blue green and natural.



Plastic Recycling



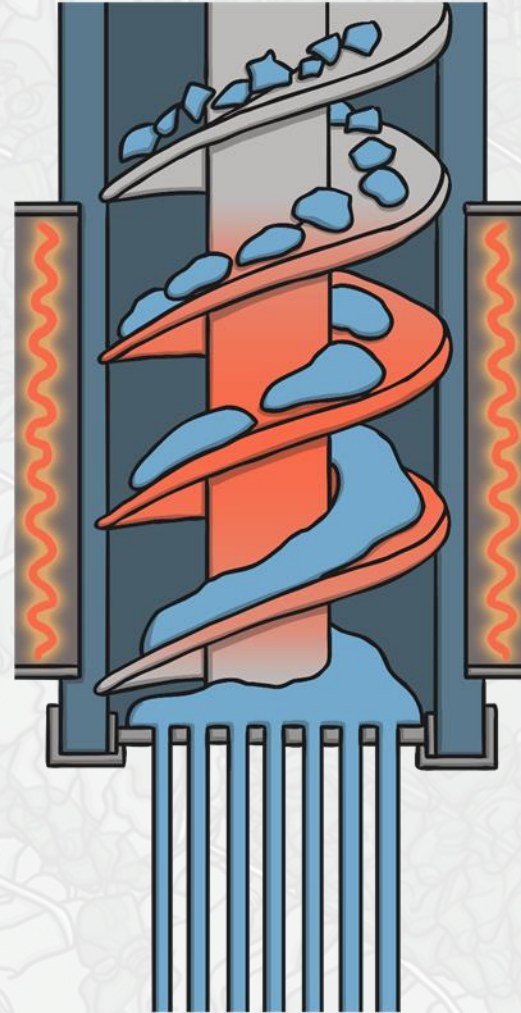
The bottles are shredded.



Plastic Recycling



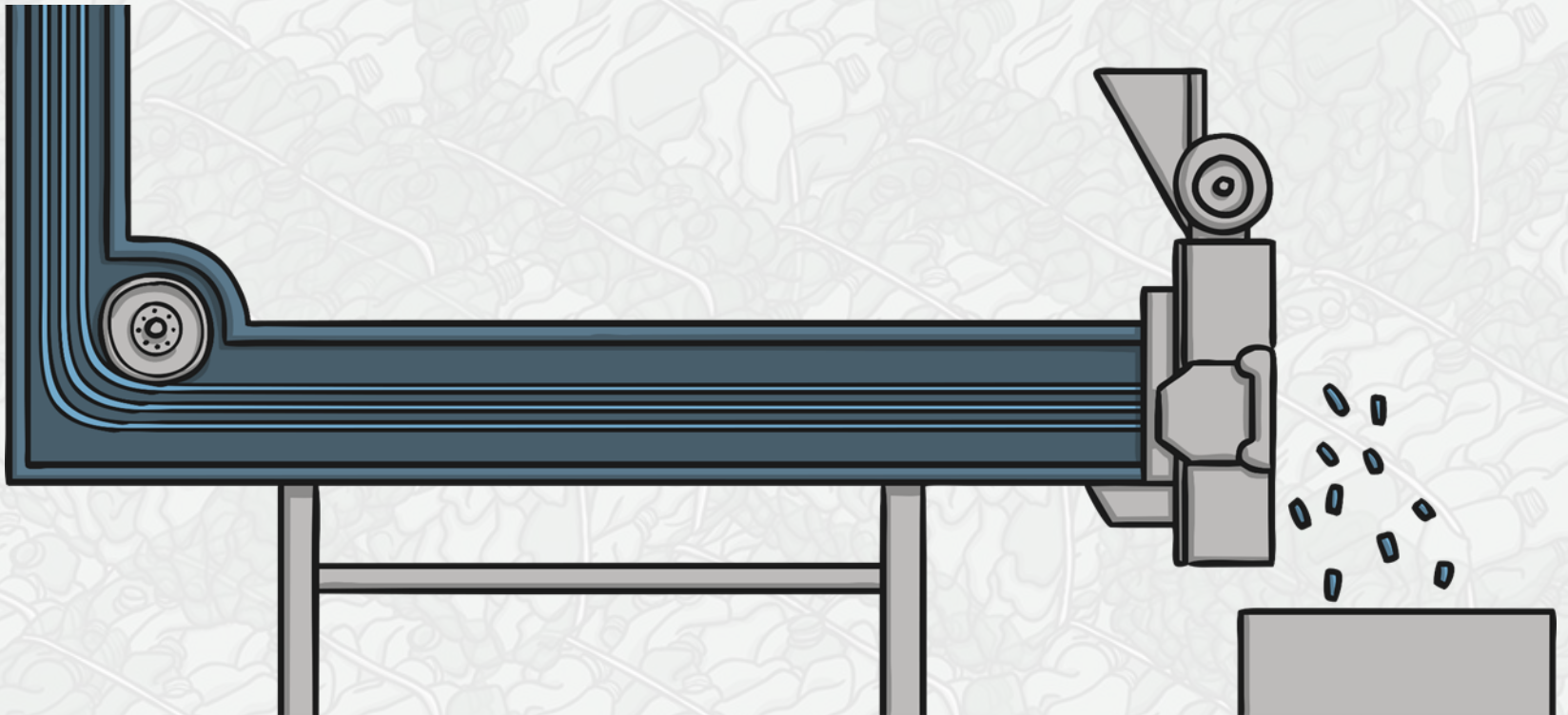
The shredded bottle pieces are melted.



Plastic Recycling



Pellets are made from the melted, shredded plastic bottles.



Plastic Recycling



New items like carrier bags and more plastic bottles are made. The pellets can then be used to make new items like plastic fencing, carrier bags or new plastic bottles.



Plastic Recycling



Recycling helps us to use less raw materials, reduces landfill and also reduces the amount of damaging greenhouse gases release.

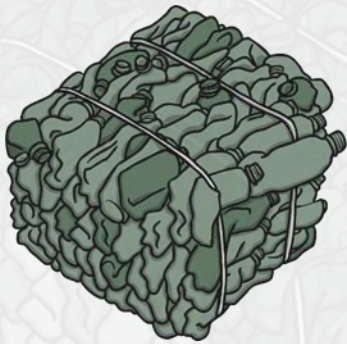


Look at the arrows in the recycling symbol. What do the arrows represent?

Why is it important to recycle?

Find Out More!

Click on the recyclable materials below and watch a video to find out more about recycling and the best way to sort waste!



Recycling challenge!

Can you pick one of these challenges to try?

- Can you choose a piece of recycling from home and explain all of its possible uses? How would YOU recycle it?
 - Try drawing all of the different things you would use it for!
- You may even be able to recycle several bits of recycling into a whole new purpose. Can you draw a robot or new invention that you could make out of your recycling waste?
- You could even try making your design! Your teachers would love to see any of your wonderful designs so don't forget to email them!

