



Packaging problems



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How are these items packaged when you bring them home?



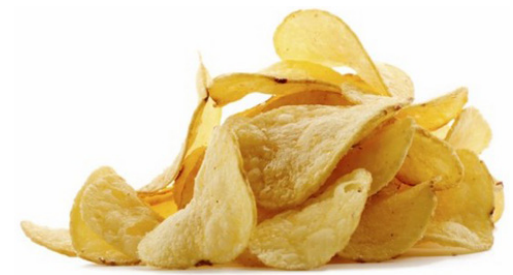
Shampoo



Grapes



Baked beans



Crisps



Milk



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What happens to this packaging once you
have used what's inside?



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It is recycled!
What is RECYCLING?



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Throwing a piece of rubbish in the bin is only the beginning of its journey.

Much of our rubbish can now be recycled.

Recycling is when things that are no longer wanted (like used plastic bottles) are reused to make new things.





What can be recycled?
Let's have a look...



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Many different types of materials can be recycled,
including:

- ♻️ Paper
- ♻️ Plastic
- ♻️ Glass
- ♻️ Clothing
- ♻️ Metal
- ♻️ Electronics (phones and laptops)
- ♻️ Food



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This logo is the worldwide symbol
for recycling



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Why is recycling important?



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Rubbish that is not recycled ends up in landfill sites.

Landfill sites are huge rubbish dumps. With the amount of rubbish we produce, we will eventually run out of landfill space.

Rubbish also pollutes the planet by ending up in our streams and oceans.





A landfill site



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True or False?

Recycling saves energy



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True or False?

It's **TRUE**
It takes 50% less energy to recycle
something than it does to make something
new



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True or False?

Recycling helps the environment



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True or False?

It's **TRUE**
Recycling cuts down on pollution to
habitats and helps the environment





True or False?

Recycling does not help to protect
the planet's resources



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True or False?

It's **FALSE**

When we recycle, used materials are made into new products, reducing the need to use more of the planet's natural resources. If used materials are not recycled, new products are made by removing fresh resources from the Earth, through mining and forestry (cutting down trees)



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How do we recycle?



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How is waste recycled?

Your home probably has different bins for different types of waste.

You might put food scraps into one bin and plastic into another.

Separating your rubbish makes it easier to sort once it has been collected.

What colours are your bins?



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How is waste recycled?

Rubbish is collected from your bins outside your house by rubbish trucks. The rubbish is then sorted and taken away to a large sorting facility where it is sorted again.

It is then transported to a factory and taken through a recycling process to be made into something new.



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How glass is recycled

Step 1



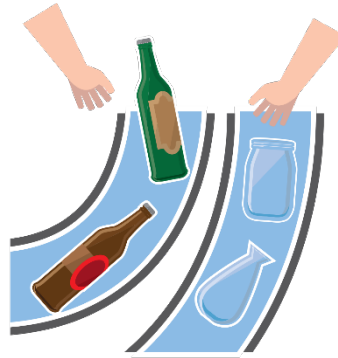
Glass is thrown into the recycling bin

Step 2



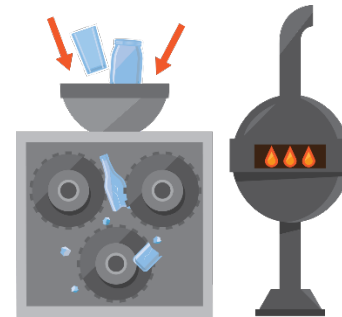
It is then collected and taken to a treatment plant

Step 3



Here it is sorted by colour and washed thoroughly

Step 4



It is then crushed, melted and shaped into new bottles or different products

Step 5



Glass is then transported back to the shops ready to use again



How plastic is recycled

Step 1



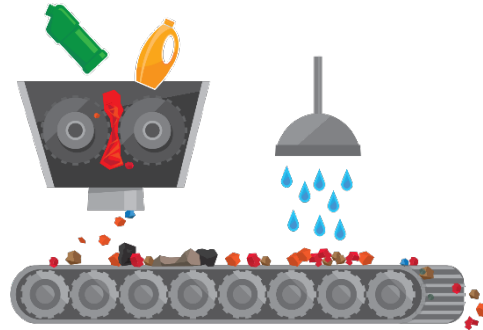
Plastic is thrown into the recycling bin

Step 2



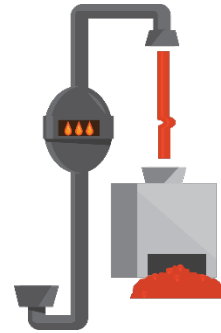
It is then collected and taken to a treatment plant

Step 3



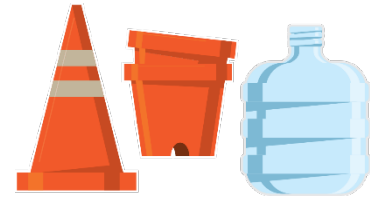
Here it is sorted, shredded into flakes and cleaned

Step 4



It is then melted and shaped into small pellets

Step 5



Finally the pellets are shaped into new products and transported to the shops to sell

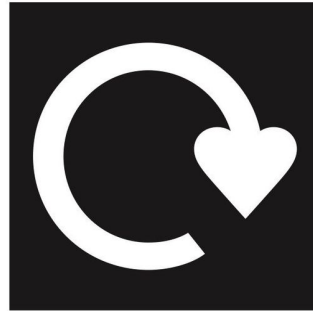


Whenever you buy food, you can check to see if the packaging can be recycled.
Most packaging will tell you. These are the symbols to check for.



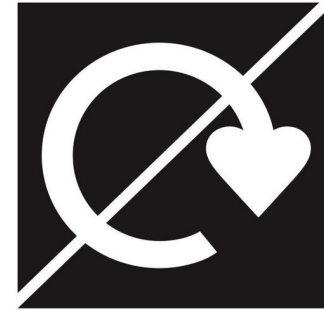
**Widely
Recycled**

This means the
product
can be recycled



**Check
Locally**

This means the item
can not be recycled
everywhere



**Not Yet
Recycled**

This means that the
product can not be
recycled anywhere

Some of the waste that we produce at home is organic waste. This is biodegradable waste that will break down and rot (unlike plastics and glass).

Organic waste includes things like food scraps, newspaper, eggshells, wood shavings, leaves and other garden waste.





Rot or not?

Non-biodegradable substances include chemicals, paints, plastic, rubber, metals etc.

These do not break down in the same way and instead keep their original state and may take thousands of years to rot.





Rot or not?

Your parents may use compost in their garden or have a compost bin.

Compost can be made from organic waste which is broken down by earthworms and bacteria-releasing nutrients which can be used to help plants grow.





**Will this Rot or
Not?**



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YES

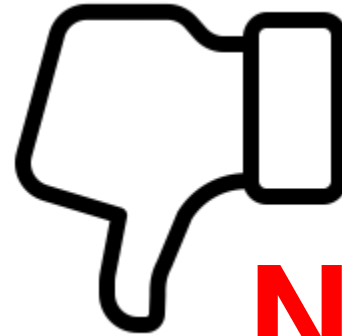
**An apple core takes around one month to
decompose
(rot down)**



**Will this Rot or
Not?**



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NO

**Plastic cutlery takes hundreds of
years to decompose**



**Will this Rot or
Not?**



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YES

**Grass clippings can decompose
within a few weeks**



**Will this Rot or
Not?**



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YES

**Broccoli takes around
80 days to decompose**



**Will this Rot or
Not?**



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NO

Scientists estimate that rubber can take over 50 years to decompose. Rubber is often recycled because it takes so long to break down