

# Maths on Toast Earth Day Challenge

Earth Day reminds us to take care of our planet.

To mark the 51<sup>st</sup> anniversary of the event in 2021, [www.earthday.org](http://www.earthday.org) has created 51 actions you can take to make a difference, from using reusable grocery bags to calculating your carbon footprint and making changes to reduce it!

## #WomblesWanted

Another action is to clean up litter – a great way to have some maths fun! And who better to help than The Wombles! The Wombles are experts in recycling rubbish in creative ways.

Can you help Great Uncle Bulgaria by collecting 51 pieces of litter and sorting it for The Wombles below? You can use the chart to keep a tally!

Can you predict which Womble will collect the most litter?

Why not record your findings using Tobermory's pop-up bar chart!

Tomsk



Madame Cholet



Bungo



Alderney



Orinoco



Wellington



Great Uncle Bulgaria



	Plastic	Paper	Cardboard	Aluminium	Food	Other

## Why's this maths?

It's a fun, active, and crafty way to collect, compare and record data.

For more fun activities visit [www.mathsonttoast.org.uk](http://www.mathsonttoast.org.uk)

Don't forget to share your creations and comments on Twitter, Facebook or Instagram tagging @mathsonttoast using #positiveaboutmaths

# Make a Pop-Up Bar Chart

## What you'll need:

- 2 pieces of paper (a coloured piece looks good!)
- Pencil
- Ruler
- Scissors
- Glue
- Coloured pens/pencils



Tobermory

A bar chart displays information using rectangular bars. It has 2 axes, a horizontal x-axis (remember x = across) and a vertical y-axis.

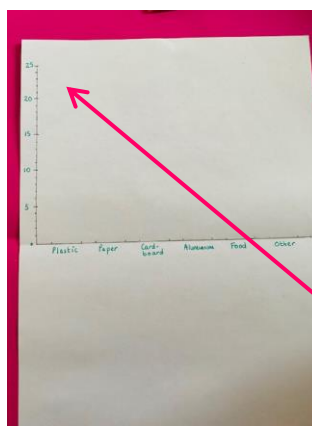
Your bar chart will have the types of litter on the x-axis and the number of items found on the y-axis.

## What to do:

1. Draw and label the axes using a pencil and ruler.

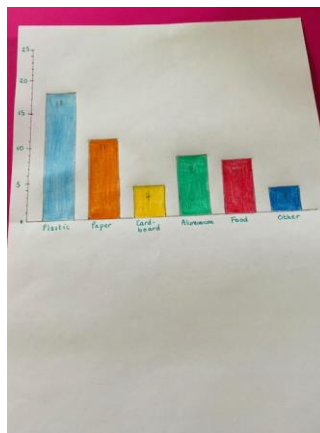
Decide whether the numbers on the y-axis are going to go up in 2s, 5s or 10s.

Make sure the numbers go up high enough to record your most popular item.



2. Draw the bars, leaving a gap in between each one.

The height of each bar should show the number of items collected.



3. Colour the bars

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4. Fold the paper in half along the x-axis.

Use scissors to cut along **only** the vertical lines of the bars.



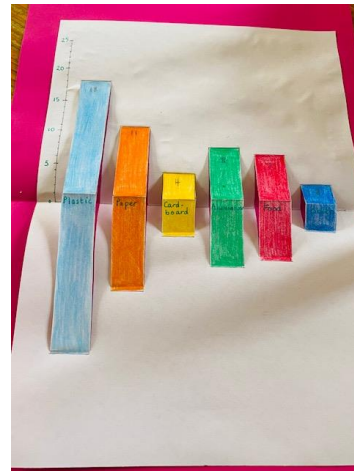
5. Unfold the paper.

Colour the bottom half of the bars you have just cut (to make a mirror image).



6. Fold the paper in half again but this time fold the bars in the opposite direction.

Cover this half in glue, avoiding the bars.



7. Stick down along the fold of the second piece of (coloured) paper.



8. Repeat by gluing and sticking the bottom half to the (coloured) paper.



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