

## Think



- Why are these bins different colours?
- Are wheelie bins effective?
- What are the hazards for those who work in waste and recycling?
- Why might you not want a wheelie bin?



## Solve



Zoe has her black bin and blue bin collected on alternate weeks. How many times is each of her bins collected in a year?

**Challenge:** Zoe also has a brown bin that is collected every four weeks. How many times is that collected in a year?

## Discuss



In a year, over 18 million tonnes of rubbish is taken to a landfill site in the UK. How can we reduce the amount of household waste that is sent to landfill? What are the issues with landfill sites? What are the alternatives?

## Respond



Make a leaflet that explains the advantages of recycling. Include information about the benefits to the environment and how recycling can be encouraged.

## Reimagine



Make a collage from recyclable materials that will promote the advantages of recycling.

## Discover



**Fact:** The wheelie bin was invented in the 1970s by a German company called Schneider. They were first introduced in the UK in the 1980s and now over 80% of the country's councils have issued people with wheelie bins.

**Question:** Have recycling bins encouraged us to recycle more? How much household waste is recycled in the UK?

# Waste Answers

How many times is each of her bins collected in a year?	How many times is the brown bin collected in a year?
<p>The bins are collected every two weeks.</p> <p><math>52 \text{ weeks in a year} \div 2 = 26</math></p> <p>Each bin is collected 26 times a year.</p>	<p><math>52 \div 4 = 13</math></p> <p>The brown bin is collected 13 times a year.</p>