## Plastic Takeaway



## Think

What is happening here?

## Solve



A landfill doubles in width every day. On day one it is 1 m wide. Calculate the growth for a week and plot this as a graph.

## Discover

Fact: Some types of plastics, known as thermoplastics, can be melted down and recycled. Whereas thermosetting plastics cannot be reshaped by heating.

Question: Which plastics in your house could be recycled? Make a list of other materials that can be recycled.

## Respond

Write a descriptive paragraph about this scene. Think about the noises, the putrid smell and appearance of the plastic.

## Reimagine

Upcycle waste plastic items that you can find at home, turning them into something useful.

## Discuss

Archaeologists can find out a huge amount about what other cultures have thrown away. What might future archaeologists be able to deduce about you from what you've thrown away?

## Plastic Takeaway Answers

## Calculate the growth for a week.

The width doubles every day. There are seven days in a week.
Day 1: 1m
Day 2: 2m
Day 3: 4m
Day 4: 8m
Day 5: 16 m
Day 6: 32m
Day 7: 64m
Plot this as a graph.
Children may use any appropriate type of graph. For example, a bar chart or line graph would look something like this:



