

# WHAT HAPPENS TO NOTTINGHAM'S WASTE?



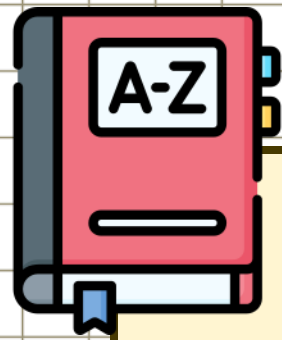
Nottingham  
City Council



# LEARNING OBJECTIVE

**To know that Nottingham's waste is used to create energy for the city.**

1. I can say what the green bin is for.
2. I can name things that go in it.
3. I can describe what happens to waste after the bin is emptied.
4. I can say how waste can still be useful.



# KEY VOCABULARY

**waste**



Things we throw away.

**incinerator**



A giant oven used to burn waste.

**energy-from-waste**



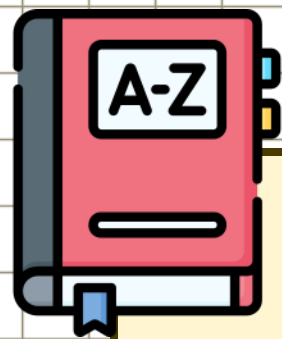
Burning waste to make electricity.

**electricity**



Energy used to power lights and machines.

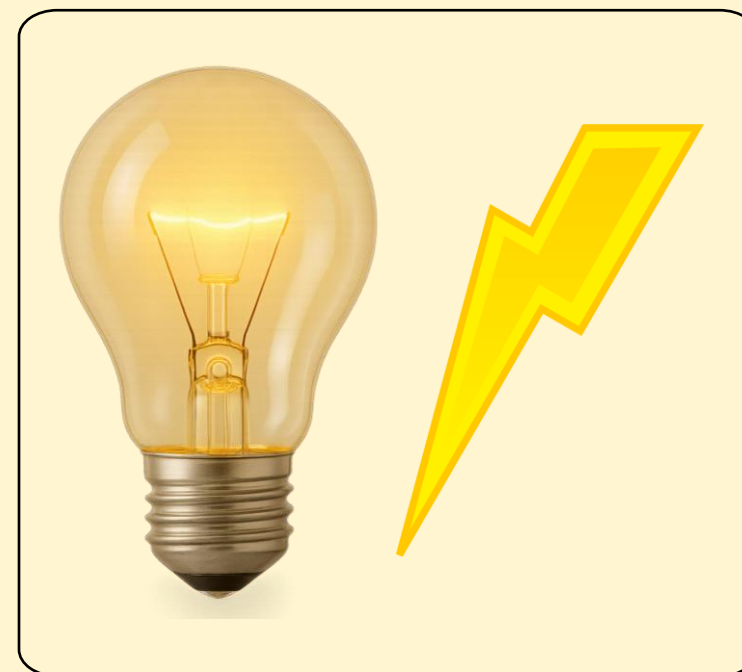




# CORRECT THE MISTAKES



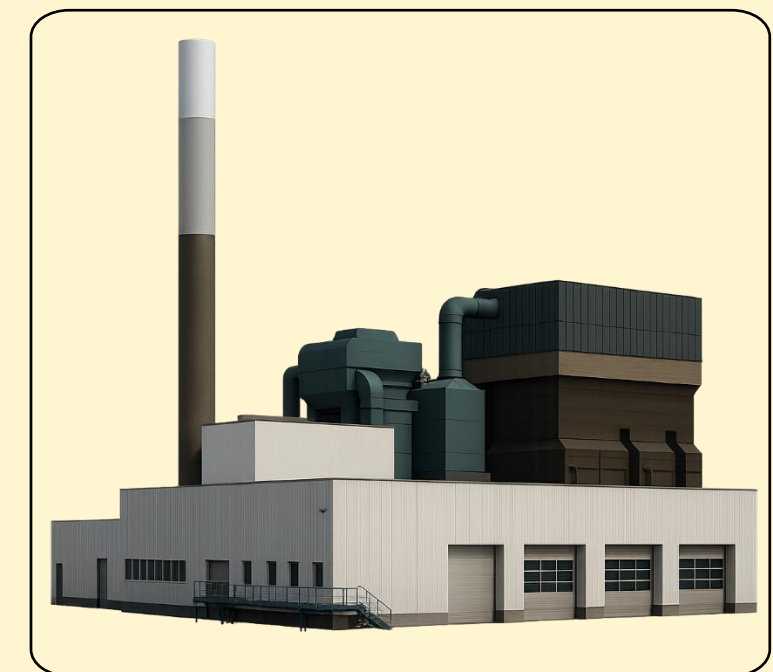
**electricity**



**waste**



**energy-from-waste**



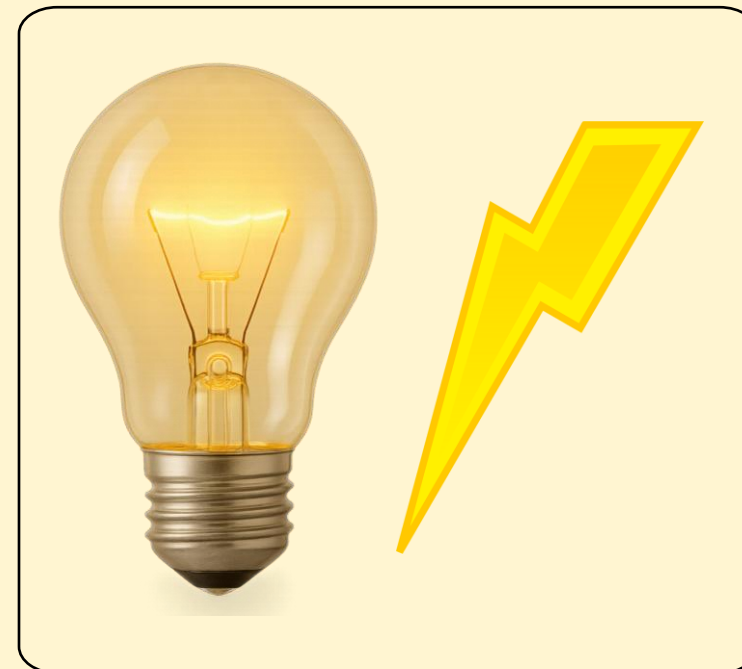
**incinerator**



# ANSWERS



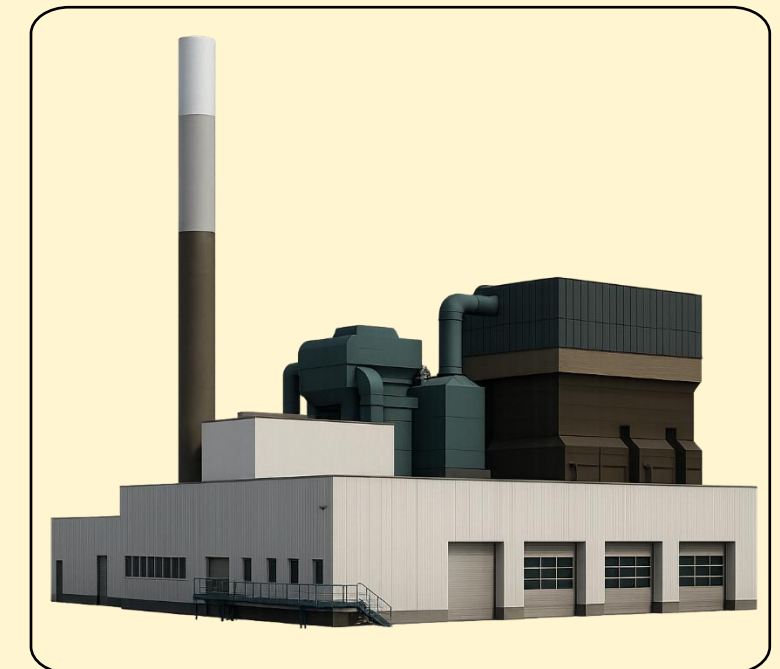
**energy-from-waste**



**electricity**



**waste**



**incinerator**





**Talk to your partner.**

**WHAT DO WE  
USE THE GREEN  
BIN FOR?**



**The green bin is where we put our household waste, including:**







# ODD ONE OUT

Which item goes in the green bin?



metal can



plastic bottle



used tissue

The \_\_\_\_\_ goes in the green bin.





# ODD ONE OUT

Which item goes in the green bin?



metal can



plastic bottle



used tissue

The \_\_\_\_\_ goes in the green bin.



# ODD ONE OUT

Which item goes in the green bin?



jam jar



used balloons



used paper

The \_\_\_\_\_ go in the green bin.





# ODD ONE OUT

Which item goes in the green bin?



jam jar

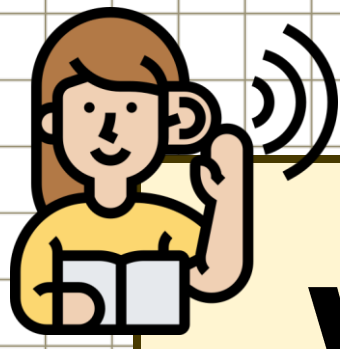


used balloons



used paper

The \_\_\_\_\_ go in the green bin.



# WHERE DOES THE GREEN BIN WASTE GO?

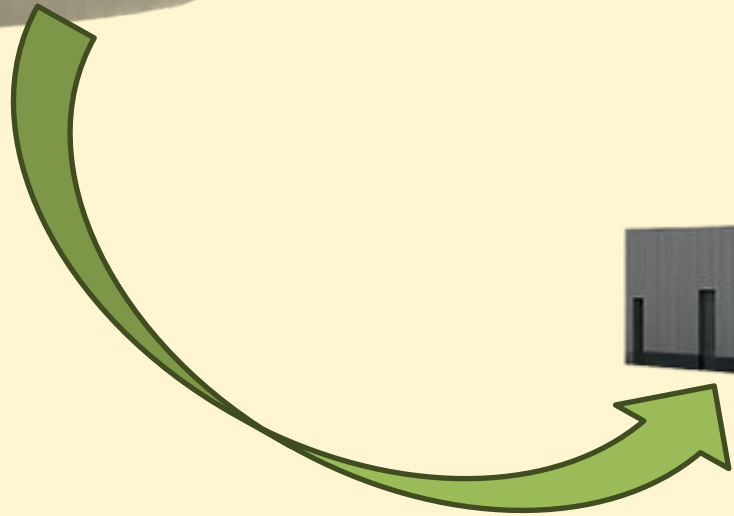


First, waste collection crews empty the green bin waste into the truck.

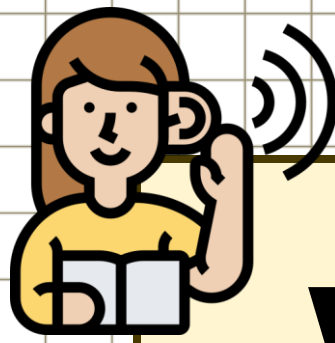




# WHERE DOES THE GREEN BIN WASTE GO?



Next, the truck takes the waste to the Eastcroft incinerator.



# WHERE DOES THE GREEN BIN WASTE GO?



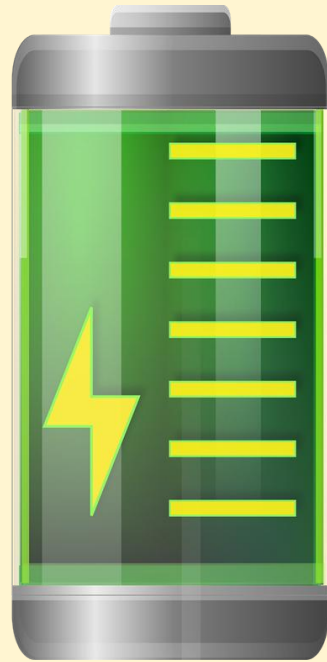
The heat from burning waste turns water into steam.

Then, the steam makes a big wheel spin to create electricity.

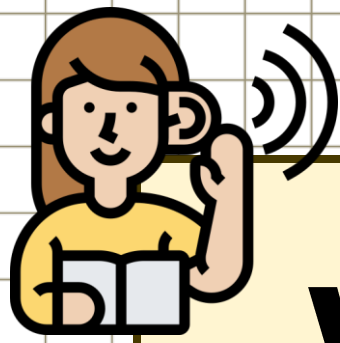




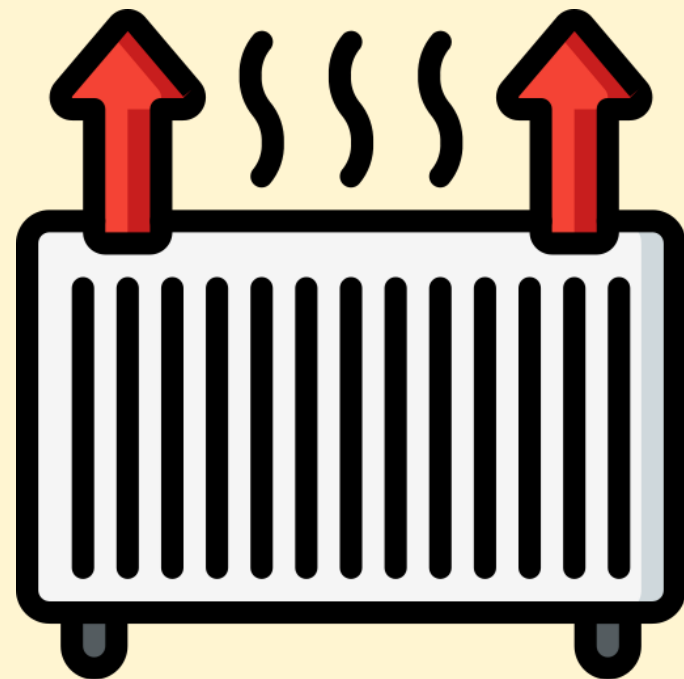
# WHERE DOES THE GREEN BIN WASTE GO?



Finally, the electricity helps to power buildings in Nottingham, like the Ice Arena.

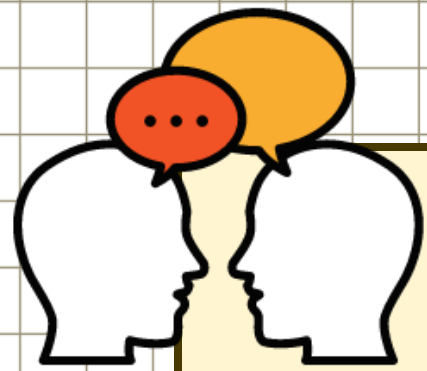


# WHERE DOES THE GREEN BIN WASTE GO?



The hot water is used to keep homes warm. This is called energy-from-waste.





# EXPLAIN HOW NOTTINGHAM GETS ENERGY-FROM-WASTE



Use these words in your explanation – how many points can you score?

1 point	2 points	3 points
green bin truck waste	heat burned homes	incinerator electricity energy-from-waste



# 👍 TRUE OR FALSE? 👎

Used tissues go in the  
green bin.







👍 **TRUE OR FALSE?** 👎

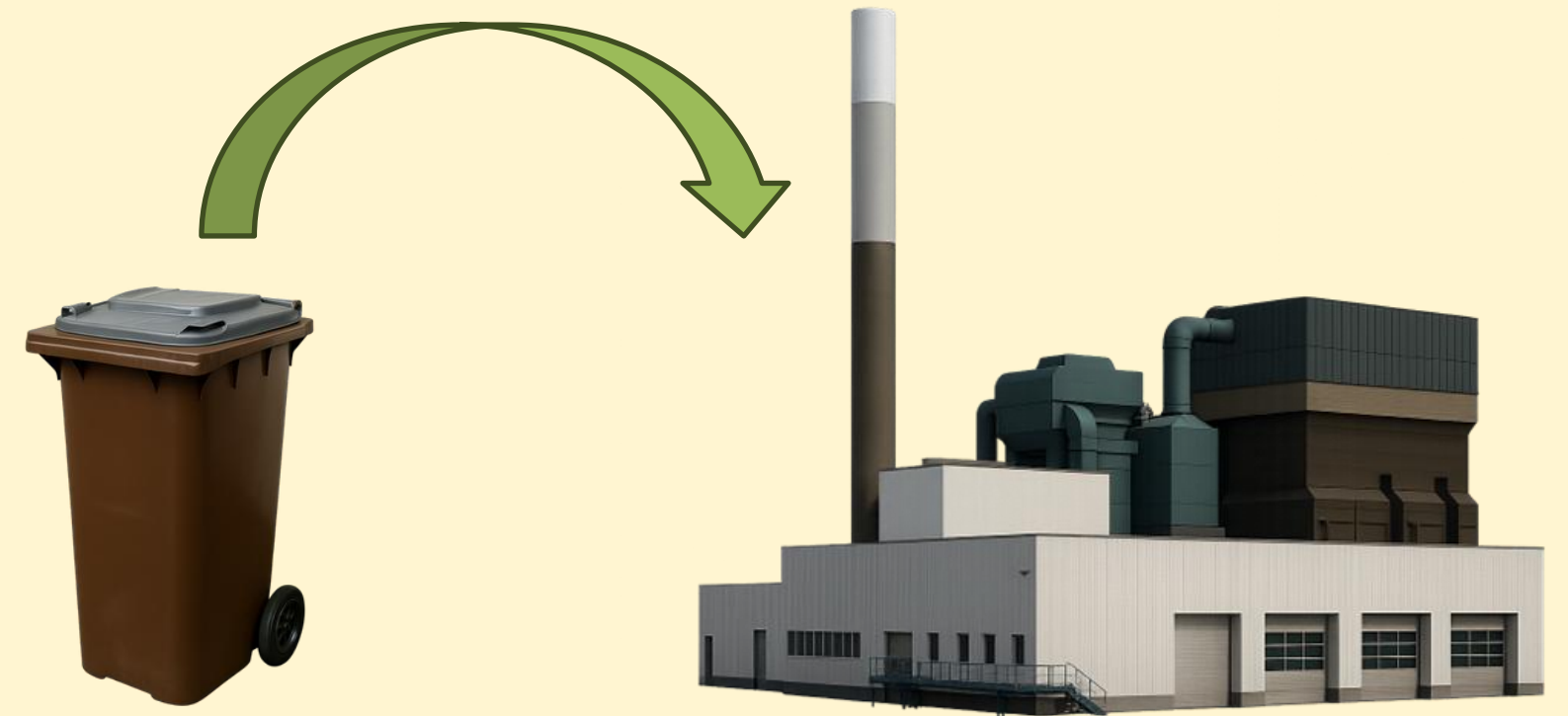
**Used tissues go in the  
green bin.**





# 👍 TRUE OR FALSE? 👎

The truck takes waste from the recycling bin to the incinerator to burn.

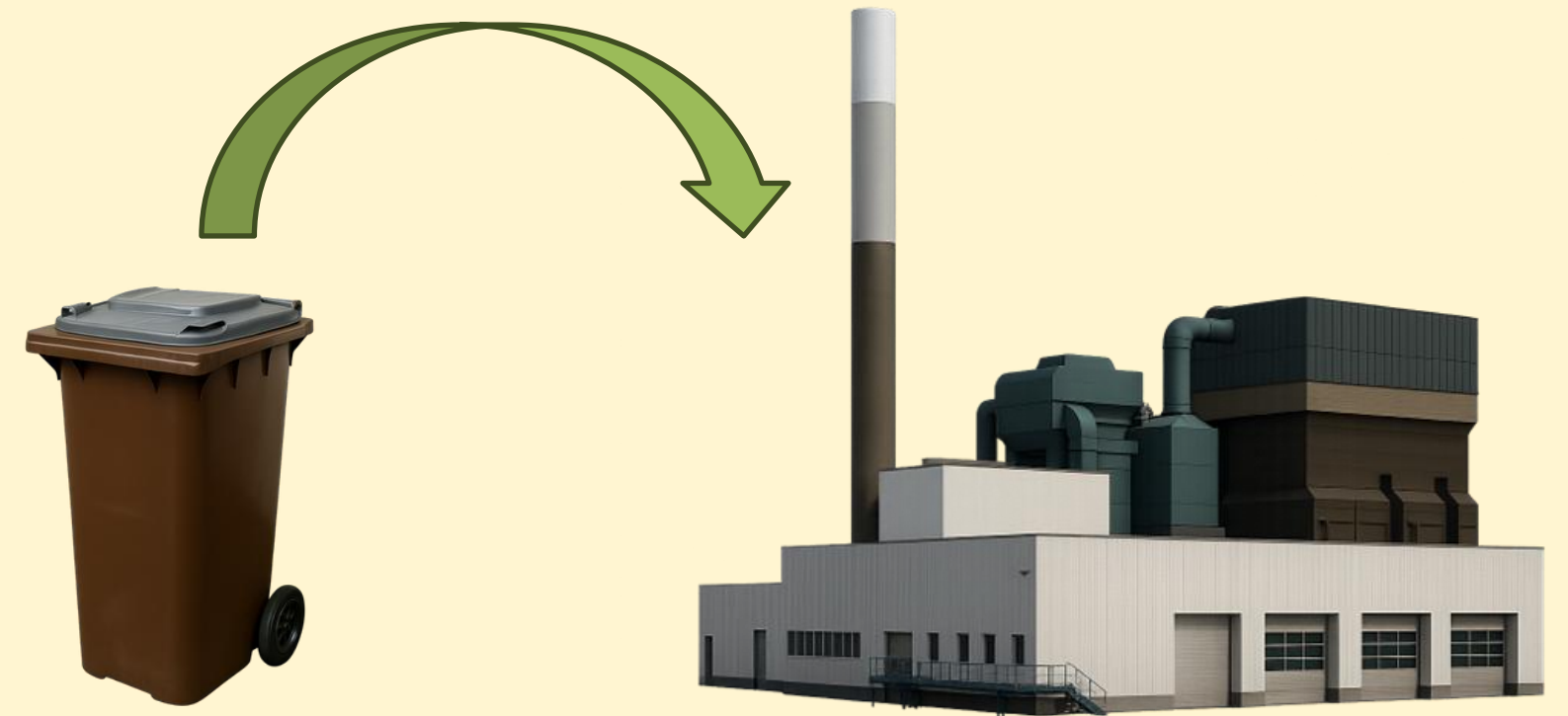






👍 **TRUE OR FALSE?** 👎

The truck takes waste  
from the recycling bin to  
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# 👍 TRUE OR FALSE? 👎

Burning waste in the  
incinerator makes  
electricity for  
Nottingham.







👍 **TRUE OR FALSE?** 👎

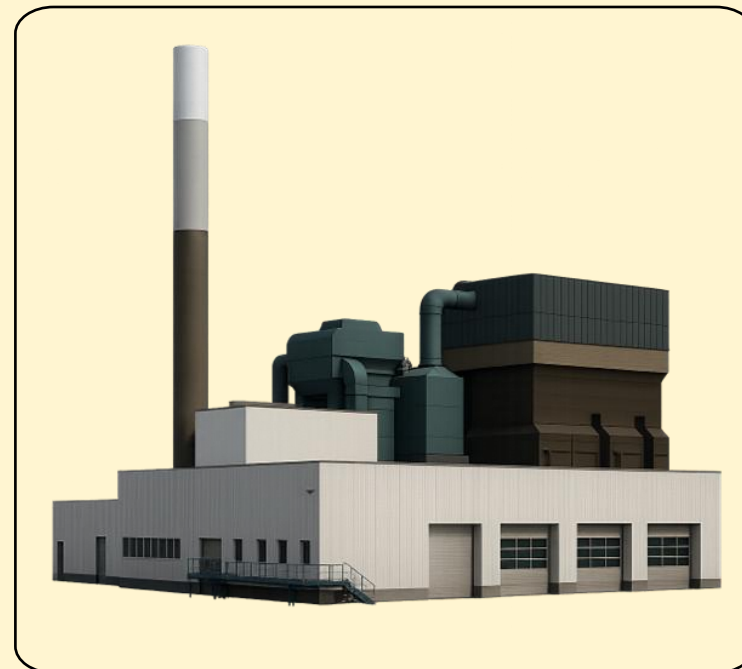
Burning waste in the  
incinerator makes  
electricity for  
Nottingham.





# ACTIVITY – ROLE PLAY

In small groups, make a role play drama to show the different stages of the journey of green bin waste.







# ACTIVITY – SEQUENCING

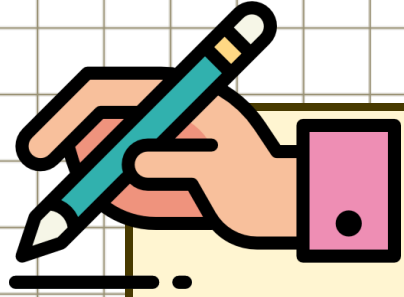
In pairs, use the cards to order the journey of green bin waste and explain them to your partner.

**1**

**2**

**3**

**4**



# ACTIVITY – STORYBOARDING

Use the storyboard to draw each stage of the journey of waste.  
Write a caption to describe what happens.

1

2

3

4

waste

energy

truck

green bin

incinerator

burned

heat

electricity

homes

Nottingham





# ACTIVITY – INVESTIGATE

Check the waste bins in your school to see if the right materials are in there.



- ☐ used tissues
- ☐ dirty items
- ☐ pencil shavings
- ☐ drink and yoghurt pouches



- ☐ paper and card
- ☐ plastic bottles
- ☐ cardboard
- ☐ clean foil
- ☐ crisp packets and sweet wrappers

