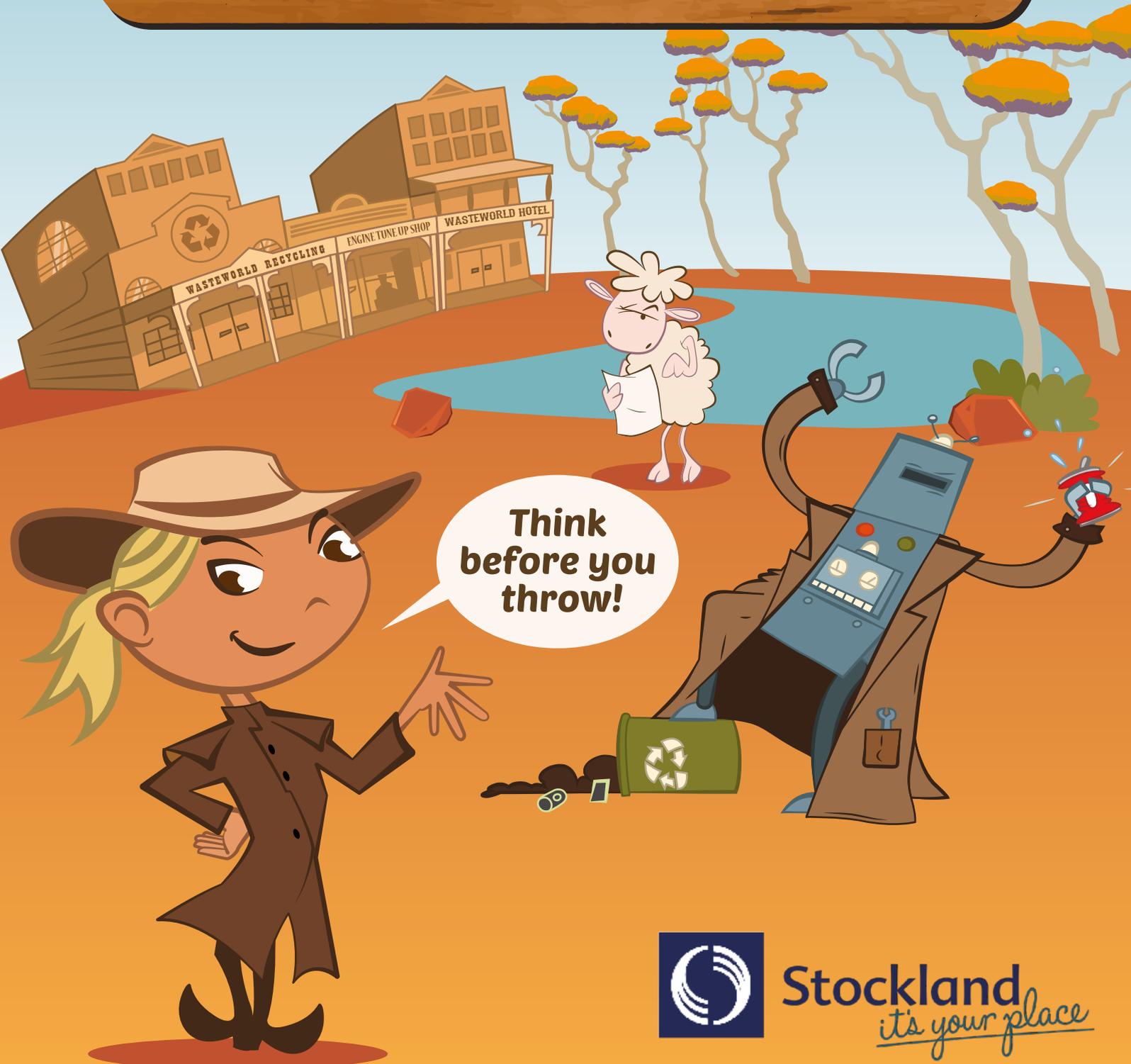


# Showdown at

# WASTE WORLD



Think before you throw!



Stockland  
*it's your place*



Mayor Matilda



Robo-Ned Jelly



Gerald the Jumbuck



The Great Barry Reef



Gordon Gumnut

## HERE'S WHAT YOU LEARN:

- What is **WASTE** in our environment
- Why **REDUCING WASTE** is important
- How science and technology help us **REDUCE, REUSE, RECYCLE**
- What **YOU** can do!

## THE STORY

In the outback town of Waste World, Mayor Matilda has a problem. The recycling plant is on the blink and waste is piling up everywhere! To make matters worse, Robo-Ned, the fastest robot at the plant, has quit his job and run off to become a waste outlaw! Calling himself Robo-Ned Jelly, leader of the Jelly Gang, he's determined to waste everything he can!

Robo-Ned challenges Matilda to a showdown but luckily, Matilda has friends on hand to give her great advice. Gerald the Jumbuck explains what waste is and what happens when it piles up in our environment. Deputy Mayor Gordon Gumnut helps Matilda understand why reducing waste is important and The Great Barry Reef shows her how easy it is to reduce waste. He also explains how science and technology are making it easier for us to use less.

Can Matilda learn enough about recycling and waste to re-program Robo-Ned in time to save the town?

## WORDS TO KNOW

<b>Design</b>	A plan of how you're going to make something
<b>Engineer</b>	A scientist who designs and builds new things
<b>Environment</b>	Everything living and non-living on earth
<b>E-Waste</b>	Electronic waste like computers, mobile phones and batteries
<b>Landfill</b>	A large hole in the ground where waste is buried
<b>Natural Resources</b>	Things found in nature that can be used by people
<b>Pollution</b>	When things contaminate or dirty our environment
<b>Program</b>	A set of instructions that a computer follows
<b>Recycle</b>	The process of turning waste into new things
<b>Reduce</b>	To make less of something
<b>Reuse</b>	To use something again
<b>Robot</b>	A device used to complete a specific task on its own
<b>Technology</b>	The use of knowledge to invent new devices or tools
<b>Waste</b>	Something we finish using and want to throw away

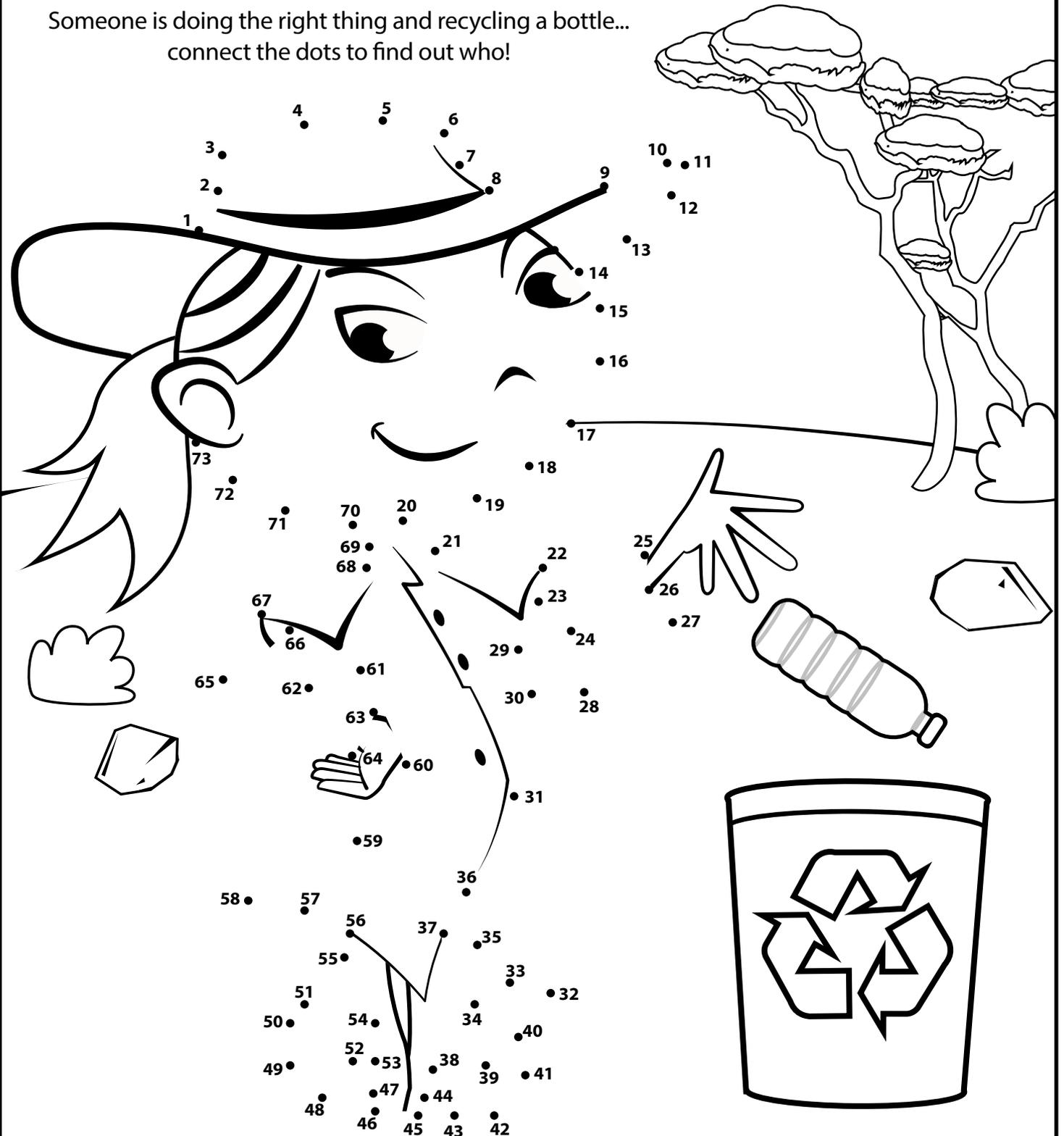
# RECYCLING IS EASY!

Colour the picture and remember to recycle.

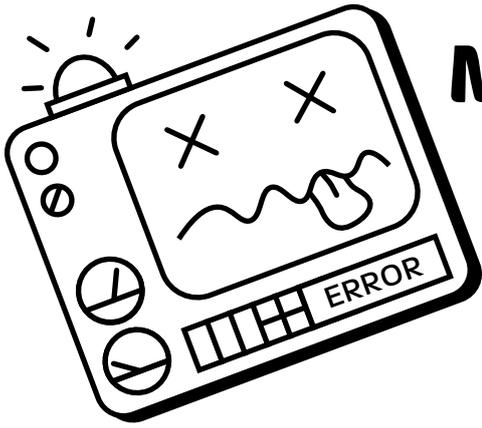


# Dot-To-Dot

Someone is doing the right thing and recycling a bottle...  
connect the dots to find out who!



**Suggested Grades:** P-2 • **Learning Area:** Maths, Science  
**General Capability:** Numeracy, Personal and Social Capability



## Mayor Matilda's Mix-Up

# MATCH-UP!

Oh no! Mayor Matilda has an identical twin! Help the computer by circling the two that are exactly the same, then colour the picture.



00101101

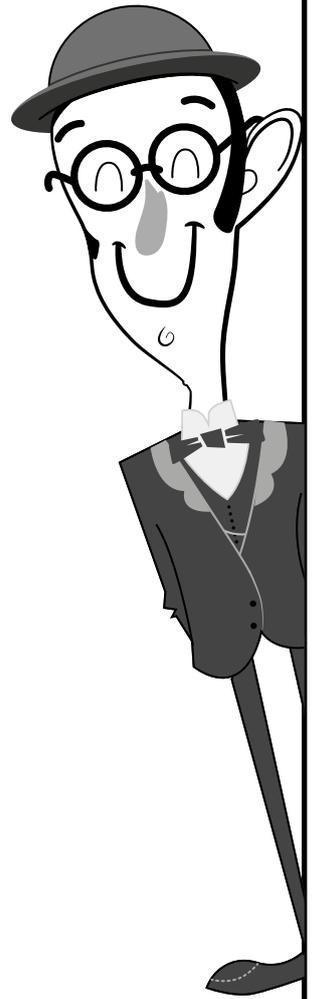


01010101



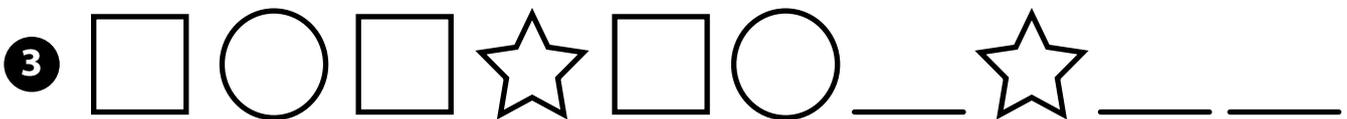
0110101

# GORDON GUMNUT'S PATTERN problem!



Gordon Gumnut can't finish the patterns below and he needs your help! Look at each pattern and see if you know what comes next. Then on the line, draw what you think comes next to keep the pattern repeating.

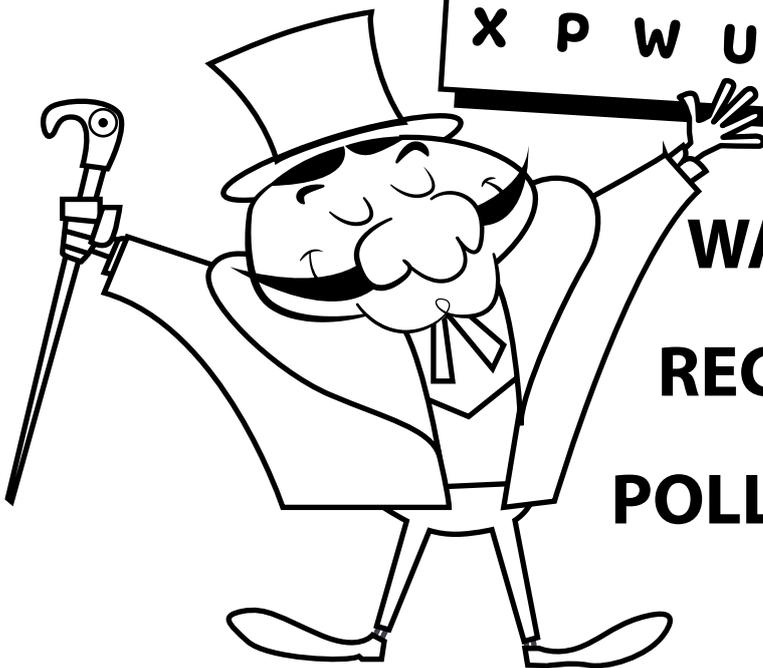
Look for other patterns in your classroom or around your school. If you can't work it out, get your friends to help.



# Barry Reef's **WORDFINDER**

Find and circle all of  
the words in the  
puzzle from the list  
below.

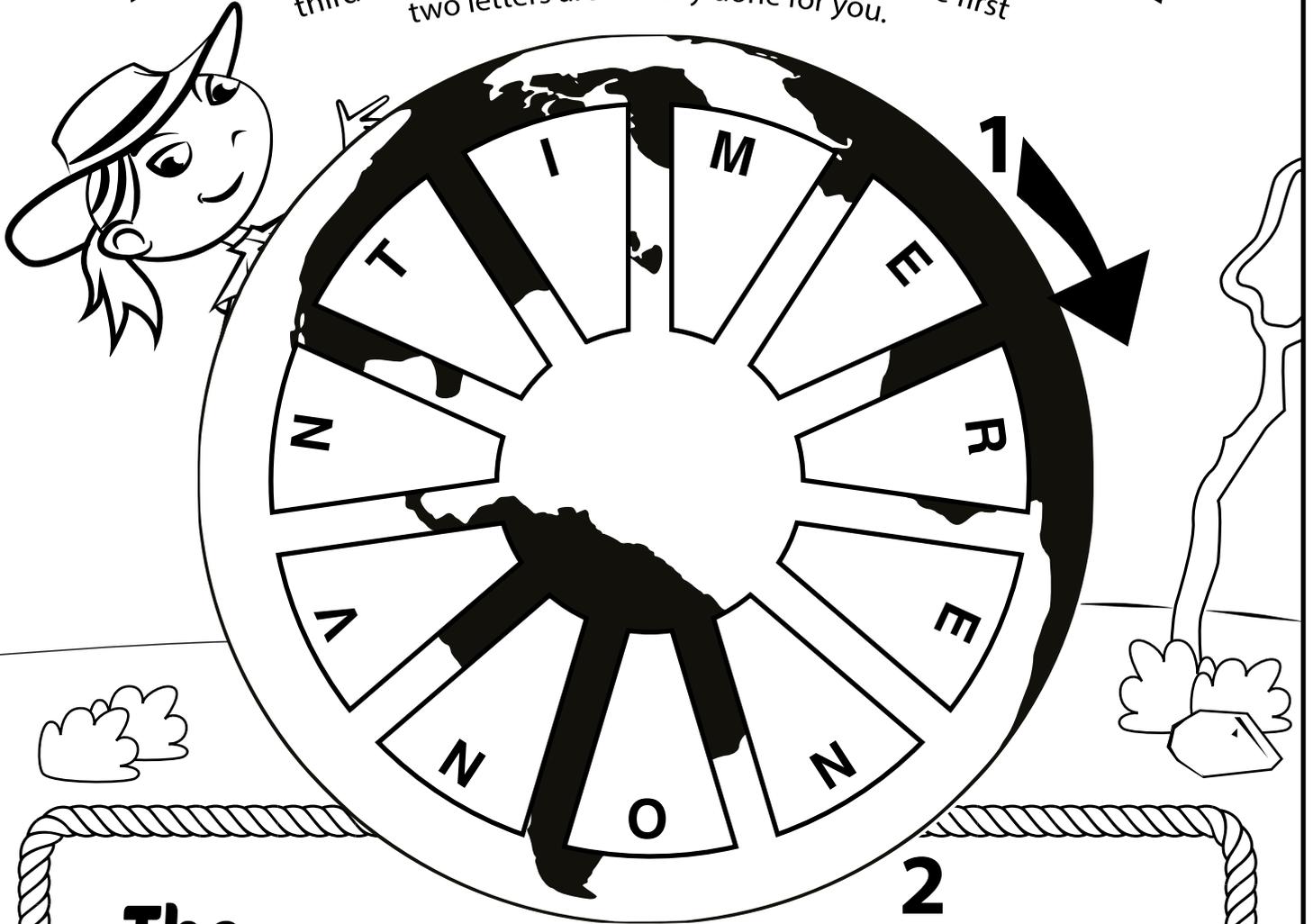
P	F	R	O	B	O	T	N	E	E
P	R	O	G	R	A	M	J	H	N
D	E	Z	H	J	G	K	S	O	G
C	C	J	O	O	D	H	I	U	I
A	Y	Q	E	A	X	T	T	K	N
U	C	H	A	Y	U	I	K	X	E
U	L	A	A	L	W	A	S	T	E
V	E	R	L	X	N	C	C	W	R
A	E	O	R	D	J	F	J	H	H
X	P	W	U	X	C	F	Q	R	Z



**WASTE**                      **PROGRAM**  
**RECYCLE**                      **ROBOT**  
**POLLUTION**                      **ENGINEER**

# SECRET CODE

Starting at 1, go around the world writing down every third letter to figure out the secret message! The first two letters are already done for you.



The  
EN

1 2

**is the world around us!**



# GERALD'S SECRET MATHS MESSAGE

Gerald has been sent a message but it's encoded! To help him decode it, work out the maths problems and then fill in the letters on the blanks below according to their number.

$5 \times 3 = \boxed{15}$  K

$8 + 6 = \boxed{\phantom{00}}$  S

$20 \div 4 = \boxed{\phantom{00}}$  E

$8 - 0 = \boxed{\phantom{00}}$  M

$19 - 8 = \boxed{\phantom{00}}$  F

$32 \div 8 = \boxed{\phantom{00}}$  L

$21 - 14 = \boxed{\phantom{00}}$  O

$16 + 3 = \boxed{\phantom{00}}$  R

$1 \times 1 = \boxed{\phantom{00}}$  A



We've already helped you with the first one.

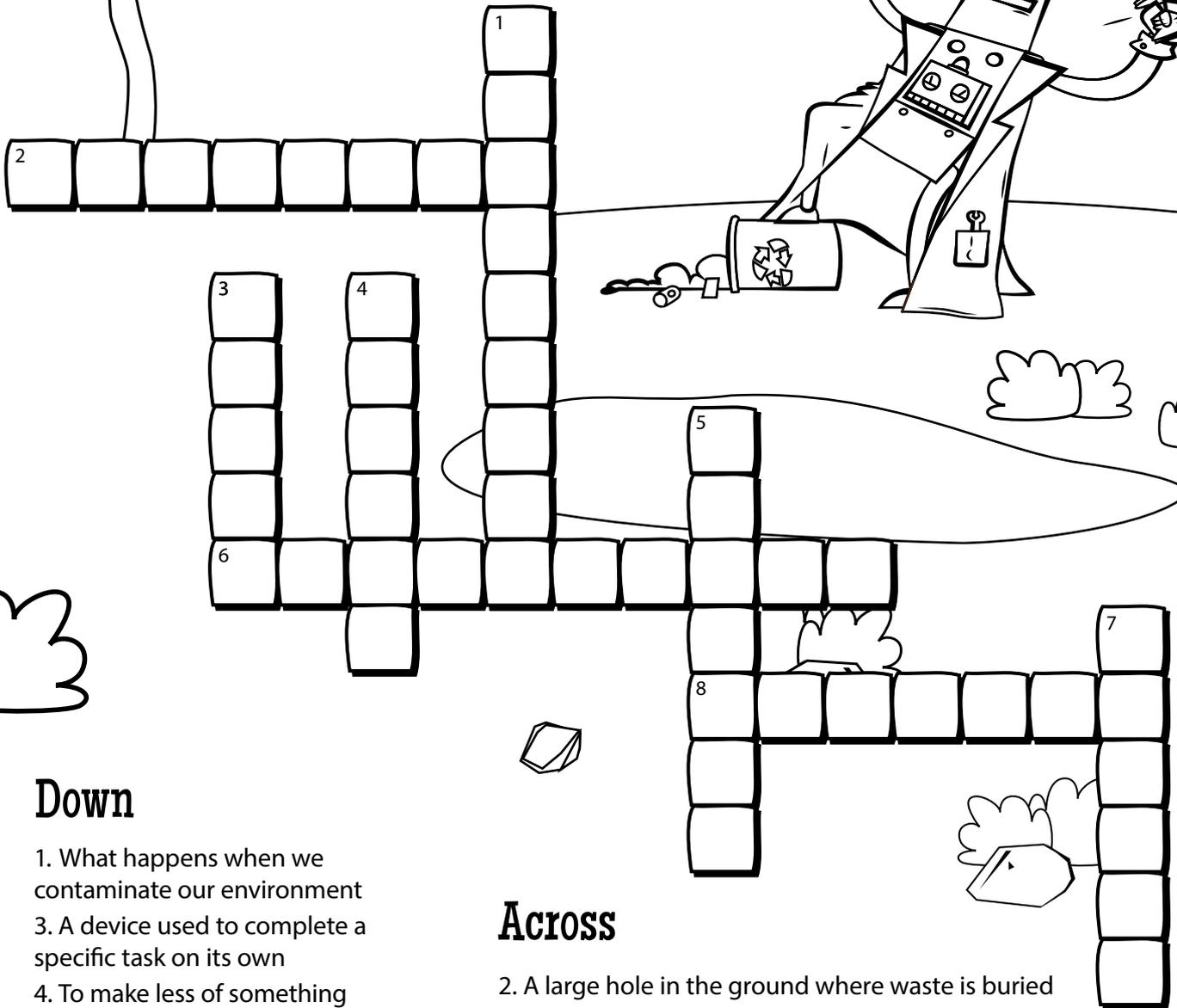
**K**

8 1 15 5 8 7 19 5 11 19 7 8 4 5 14 14



# Waste World CROSSWORD

Complete the crossword puzzle by matching the words with the clues below.



## Down

1. What happens when we contaminate our environment
3. A device used to complete a specific task on its own
4. To make less of something
5. A set of instructions a computer can follow
7. A plan on how you're going to make something

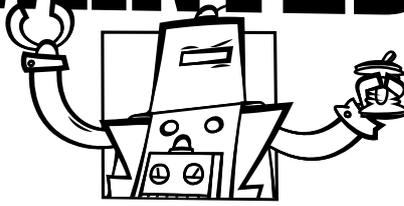
## Across

2. A large hole in the ground where waste is buried
6. \_\_\_\_\_ is used to create new tools or devices with the help of science
8. To \_\_\_\_\_ is the process of turning waste into new things

# LEARNING SHOWDOWN

After Robo-Ned's reboot he lost some data about recycling and technology. Did you learn enough to help out?

## WANTED



### SOMEONE TO TEACH ROBO-NED ABOUT RECYCLING

Draw a line from the words on the left to the correct description. The first one is already done for you.



Engineer	Everything living and non-living on earth
Robot	To use something again
Reuse	A plan of how you're going to make something
Environment	A scientist who designs and builds new things
Design	When things contaminate or dirty our environment
Technology	A device used to complete a specific task on its own
Pollution	The use of knowledge to invent new devices or tools

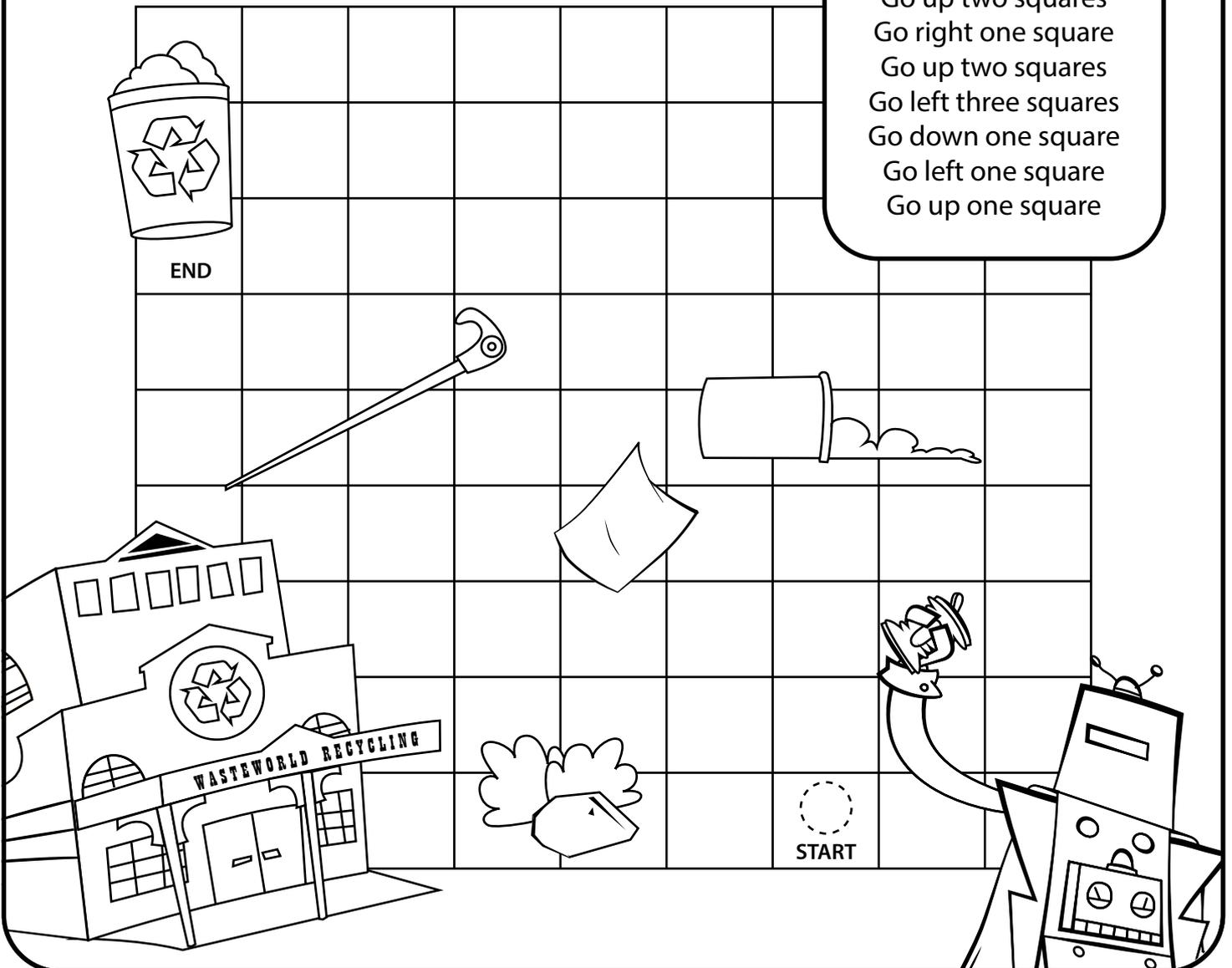
# Robo-Ned's Rebooted RECYCLING PROGRAM

Now that Robo-Ned has been reset, we need to program him again! Using this program, or sequence of steps, help him put the can in the recycling bin. Make sure he doesn't crash into anything on the way.

If you can find a better way to get there, create your own program and test your friends!

## PROGRAM

Go left one square  
Go up two squares  
Go left two squares  
Go up two squares  
Go right one square  
Go up two squares  
Go left three squares  
Go down one square  
Go left one square  
Go up one square





# YOU'VE SEEN THE SHOW!

## NOW JOIN YOUR SCHOOL'S

# STEM/SCIENCE EXPO

## WHAT IS A SCHOOL STEM/SCIENCE EXPO?

LEGO® Education WeDo 2.0 is a fun STEM robotics program for primary school students. STEM stands for science, technology, engineering and maths.

A school STEM/Science Expo is an event where students have an opportunity to showcase a project they have created with their friends and family.

With your LEGO® Education WeDo 2.0 kits, teams of two to six students will work together on a chosen project. As part of this, the team will build a motorised LEGO® model robot to show what they have learned. They also create a *Show What You Know* poster about the journey and robot they have created.

## WHAT WILL STUDENTS DO AT THE STEM/SCIENCE EXPO?

A school STEM/Science Expo generally lasts one to two hours, depending on how many teams are participating. At the school expo, team members share their experience with the project topic and what they learned by working as members of a team. All the teams will showcase their LEGO® model robot along with their *Show What You Know* poster. They will share their research with other teams, their family and anyone else attending the Expo. And every team member will receive a participation certificate!



# Your place for future learning and innovation

*Stockland understands the importance of creating sustainable and vibrant communities that can thrive into the future.*

We are providing an opportunity to educate children through our partnership with The National Theatre for Children, who specialise in creating educational and curriculum-aligned programs nationwide.

This year, we are offering students a FREE, exciting STEM (Science Technology, Engineering, Mathematics) comprehensive education program, including a live theatrical in-school production, curriculum-aligned materials and delivery of LEGO® Education sets. Students will use the LEGO® Education sets to create and demonstrate sustainable outcomes, culminating in a science expo at each school to share their experiences and knowledge with their community. Together we will teach, entertain and inspire future generations to become the leaders of tomorrow.

Visit [wasteworld.com.au](http://wasteworld.com.au) to learn more about how Stockland is supporting education in our communities.

