



ISSUE 76 SPRING 2018



--Transport--

Kia ora Pollution Busters

We hope you have had a great term at school.

Now that it is holiday time again, a lot of us travel to different places, so it's a great time to think about all the ways we can get around. It's also good to think about how our transportation choices affect us and the environment, as some are better than others.

Enter the competition on page 11; there are lots of cool transportation related prizes up for grabs. Also keep a lookout for the ten buses (front on) hidden in this newsletter – there are two on this page.

We hope you have fun these holidays and get out and enjoy travelling our region with whānau and friends.

Tiakina tona a Ranginui rāua ko Papatūānuku
– keep protecting our sky father and earth mother.

From BuzzBOP and the Pollution Busters team at
Bay of Plenty Regional Council.





BuzzBOP's mail

Send BuzzBOP your photos, stories, and art!
Remember to include your name, age and address on the back.

Thanks to everyone who sent us pictures of their upcycled projects.
Check out BuzzBOP's friend Esther's upcycled t-shirt bag.
Love the tassels!



Send your drawings, photos, letters and competition entries to:

POST: Bay of Plenty Regional Council
Pollution Busters Club
Freepost 122076
PO Box 364
Whakatāne 3158

EMAIL: buzzbop@boprc.govt.nz

BuzzBOP's Friend Joe Metcalfe - Transport Planner

What do you do in your job?

I help plan the bus network in the region using:

- science
- listening to people in our community
- working with other parts of government

I also spend a lot of time drawing maps, writing reports and trying to convince people that my ideas for the buses are good ones!



What is the best part of your job?

Watching more and more young people jumping on our buses so that they can become more independent and do more with their lives.

At the same time it's nice to know that every person on our buses is potentially one less person in a car pushing out greenhouse gases and degrading our environment.

What path led you to this role?

I started by studying civil engineering at university and quickly discovered that I had a **passion for transport** and **how it can improve peoples lives and the environment.**



I did more study on transport planning and then went on to work in cities all over New Zealand and the world. I've done a wide range of work but I always kept coming back to public transport, and I feel like the things I do everyday make a real difference to peoples lives.

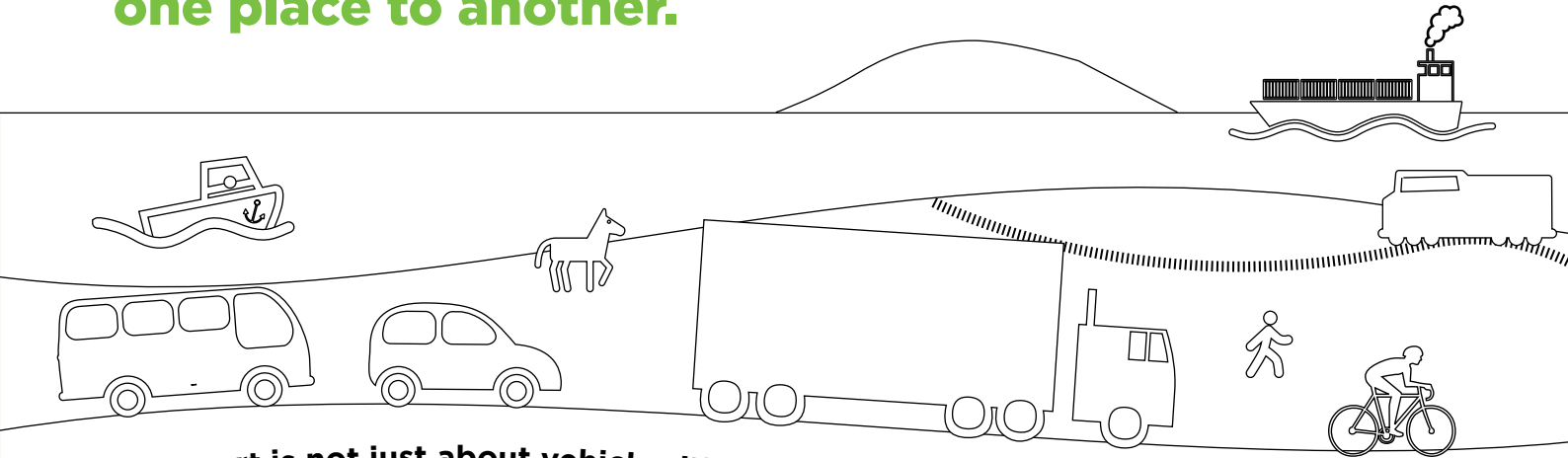
What is your message to pollution busters?

If you are passionate about something and want to make a difference; you are best to find like minded people or experts and go and talk to them.

I've learned more in 10 minute conversations than I could from hours of trawling through books or the internet, and people always want to share their knowledge and passion.

What is transport?

The movement of people and goods from one place to another.



Transport is not just about vehicles it's also about:



Infrastructure (networks) – like roads, railways and cycleways



Operations – control systems (like traffic signals)

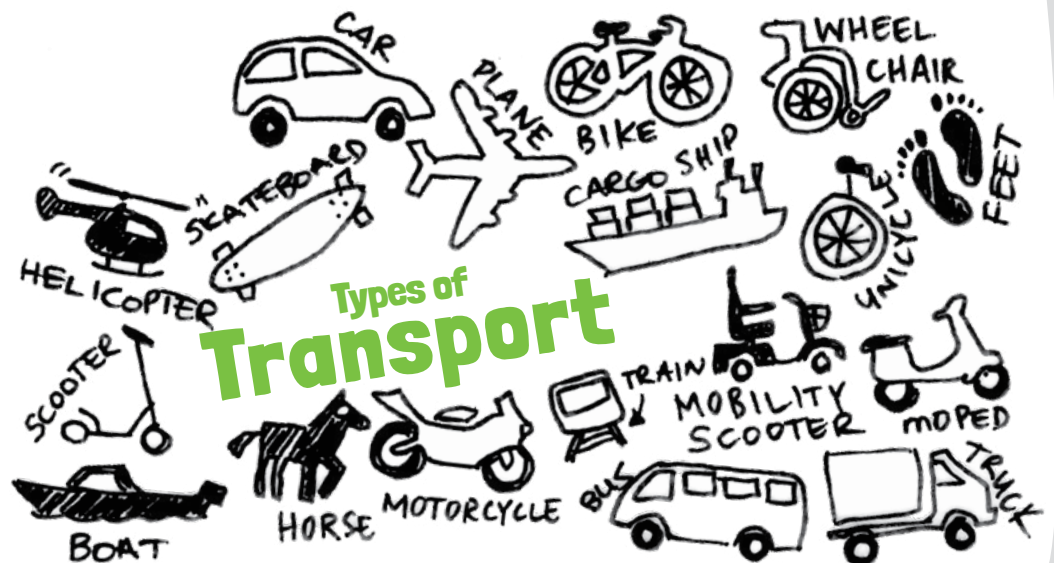
Can you think of any other types of transport?

Add to BuzzBOP's brainstorm and circle the types you use.

What are the good and bad things for each type?

Which ones do you think are faster, slower or the most efficient?

Is one type better than the others?



Match the English and Māori transport words.
BuzzBOP has done the first one for you

Relax,
take a bus

car
horse
helicopter
boat
skateboard
truck
canoe
bike

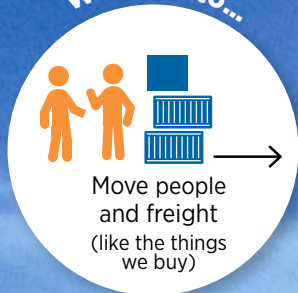
wakatopatopa
motorore
waka
motukā
paihikara
papareti
hōiho
poti

ANSWERS: car – motukā, horse – hōiho, helicopter – wakatopatopa, boat – poti, skateboard – papareti, truck – motorore, canoe – waka, bike – paihikara.

Bay of Plenty Transport

Bay of Plenty Regional Council's Transport Team work to make it easier and safer for us to use all types of transport in the region.

We want to...

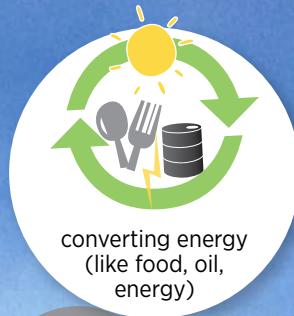


(as fast and easy as possible)

efficiently and safely



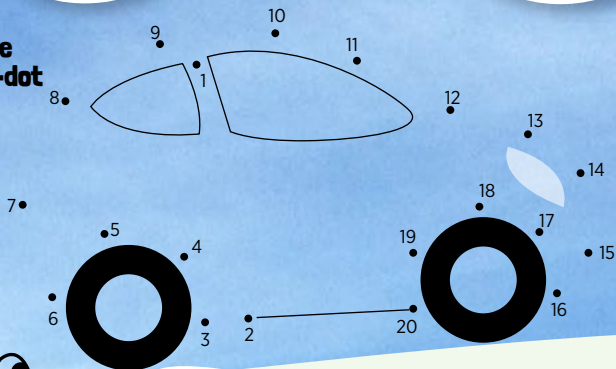
by



into



Do the dot-to-dot



Did you know?

If everyone **cut the number of short trips they take by car in half**, we'd prevent about 100,000 tonnes (that's about the same weight as 250 jumbo jets!) of CO₂ (carbon dioxide) going into the air each year, and help everybody breathe better air!

There are lots of things the Transport Team needs to think about when planning... Can you find the **CAPITALISED** words (in the text below) in the wordfind?

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

FEET POWER ROCKS



People

We have a growing population (more **PEOPLE**), which means more **CARS** on the **ROAD**. The population is getting **OLDER**, so we need more **PUBLIC TRANSPORT**, like **BUSES**.



Economy

There is more **FREIGHT** being shipped. Bigger **SHIPS** come into the **PORT**. Industries like horticulture, forestry and wood processing need their products **MOVED**. We want to make it easy for **TOURISTS** to **TRAVEL** the region.



Environment

Reducing **POLLUTION** (land, air and water) by getting people to use transport other than cars. Making sure our **NETWORKS** can still work or be fixed quickly in hazard events (like floods and earthquakes).

Technology

Finding ways to use **TECHNOLOGY** to make travel easier, **SAFER** and better for the **ENVIRONMENT**. Like **PLANNING** apps, **ELECTRIC** vehicles; safer cars, smarter traffic management and electronic road pricing.

Safety on the road



The Bay of Plenty Regional Council and local road safety partners, work together and make plans to keep us safe on our region's roads. They work with schools, teachers, students, engineers, police and the New Zealand Transport Association (NZTA) too.

They are keeping us safe by making it easier to get to school; whether walking, cycling, skateboarding or catching a bus.

Eastern Bay Road Safety Committee (Ōpōtiki, Whakatāne and Kawerau district councils), **Western Bay Joint Road Safety Committee** (Tauranga City and Western Bay of Plenty district councils) and **Rotorua Lakes Road Safety Committee** (Rotorua Lakes Council)

Stay safe crossing the road – follow the kerb drills



Find a **safe place** to cross.



Stop one step back from the kerb.



Look all ways and listen for traffic wherever it may come from.



If there is traffic coming, wait until it has passed, then **look all ways and listen** for traffic **again**.



When there is **no traffic** coming, **walk quickly** straight across the road, looking all ways for traffic.

Kerb drill sourced and adapted from NZTA

 **DESIGN A ROAD SAFETY POSTER**



How do you get to school?
Do you use green transport?
Do you cross any roads and use the kerb drills?



Sustainable (green) transport

Sustainable or 'green' transport is transport that has a low impact on the environment (like walking or biking), and about finding different ways to reduce costs and effects on people.



FINISH

32

31

Get stuck
in traffic



30

29

20

21

Only one
person
in your
car

22



23



USE GREEN
TRANSPORT

19

18

Car leaks oil



sit back,
relax,
take a bus



17

16

15

Walk to
the shops

10



7

Run out of
petrol
MISS A TURN

8

9

6

5

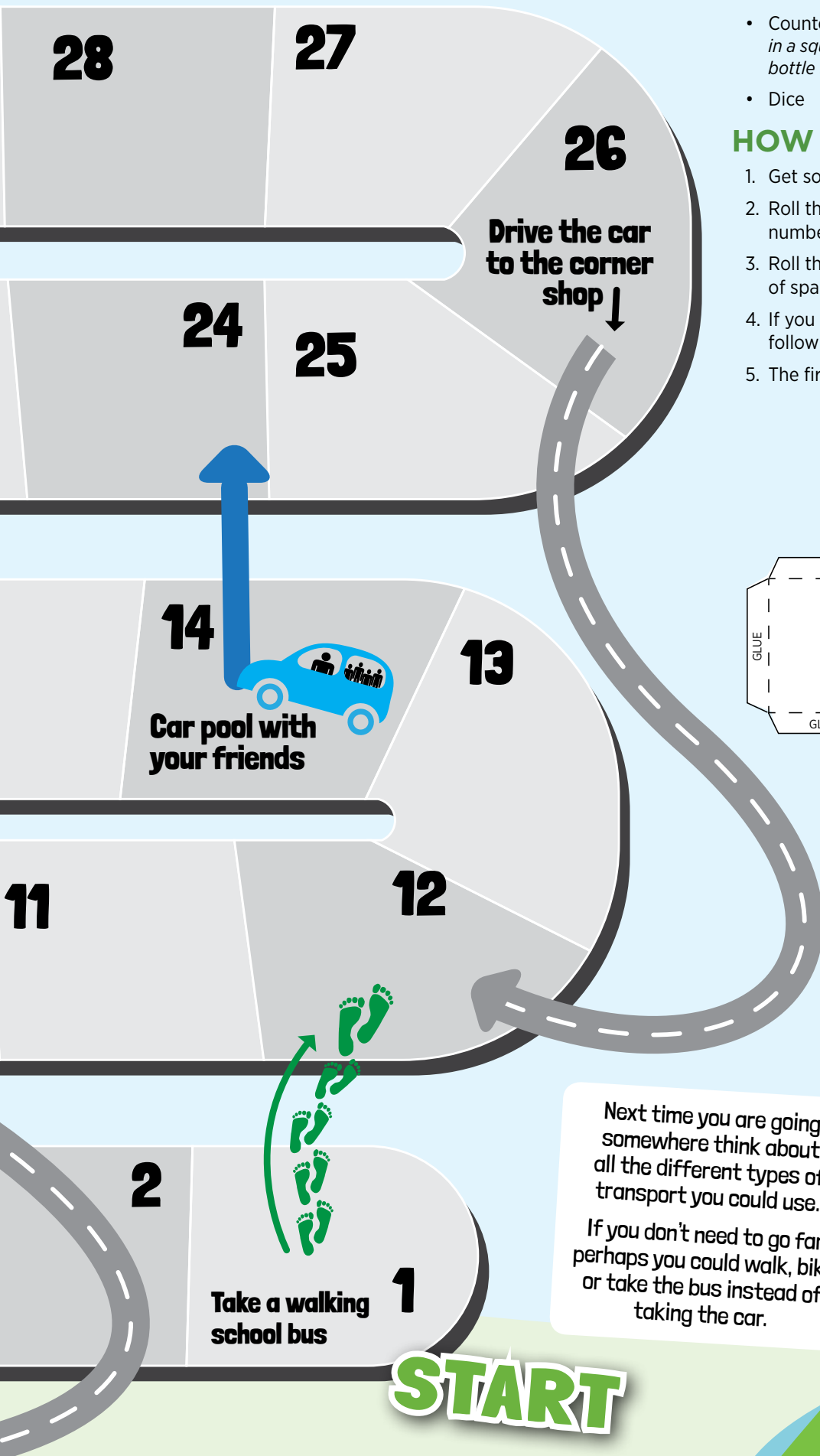
4

Bike to
school,
take the
cycle lane



3

TRANSPORT UPS & DOWNS

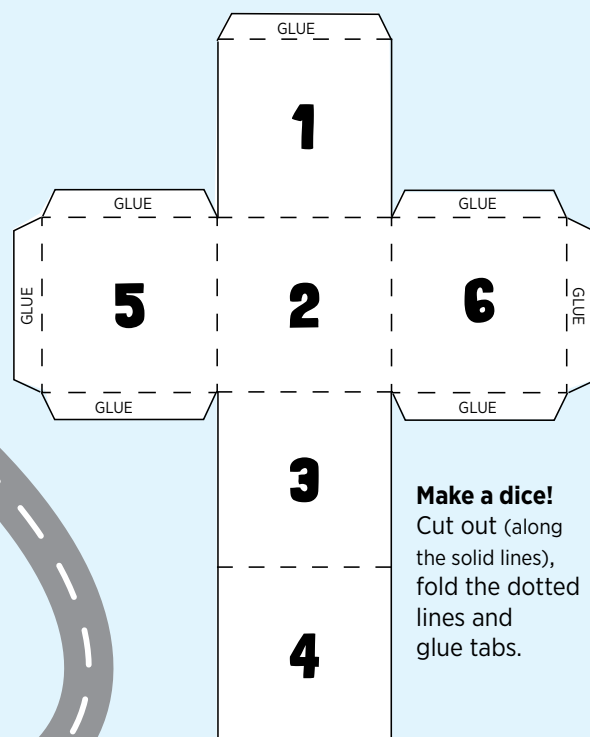


YOU WILL NEED:

- Counter for each player (*Remember it needs to fit in a square. You could use a coin, painted stones, or bottle tops... get creative and recycle!*)
- Dice

HOW TO PLAY:

1. Get some friends together to play it with.
2. Roll the dice to find who starts. The highest number rolled goes first.
3. Roll the dice and move your counter the number of spaces you have rolled.
4. If you land in a square with directions, follow them.
5. The first person to reach the finish is the winner!



Make a dice!
Cut out (along the solid lines), fold the dotted lines and glue tabs.

Next time you are going somewhere think about all the different types of transport you could use.
If you don't need to go far perhaps you could walk, bike or take the bus instead of taking the car.

START





Relax, take a bus



Some of the good things
about taking a bus are:

In the Bay of Plenty
we have lots of buses
(about 100!) and a good
bus network to travel on
throughout the region.

Reduces congestion
less crowded roads



**Less pollution,
less energy use** –
especially when the
buses are full

Costs less than driving a car
(when you add up how much a car
costs to run, look after and park)



More **time to relax**
and **see the sights**



Meet new people
and make new friends



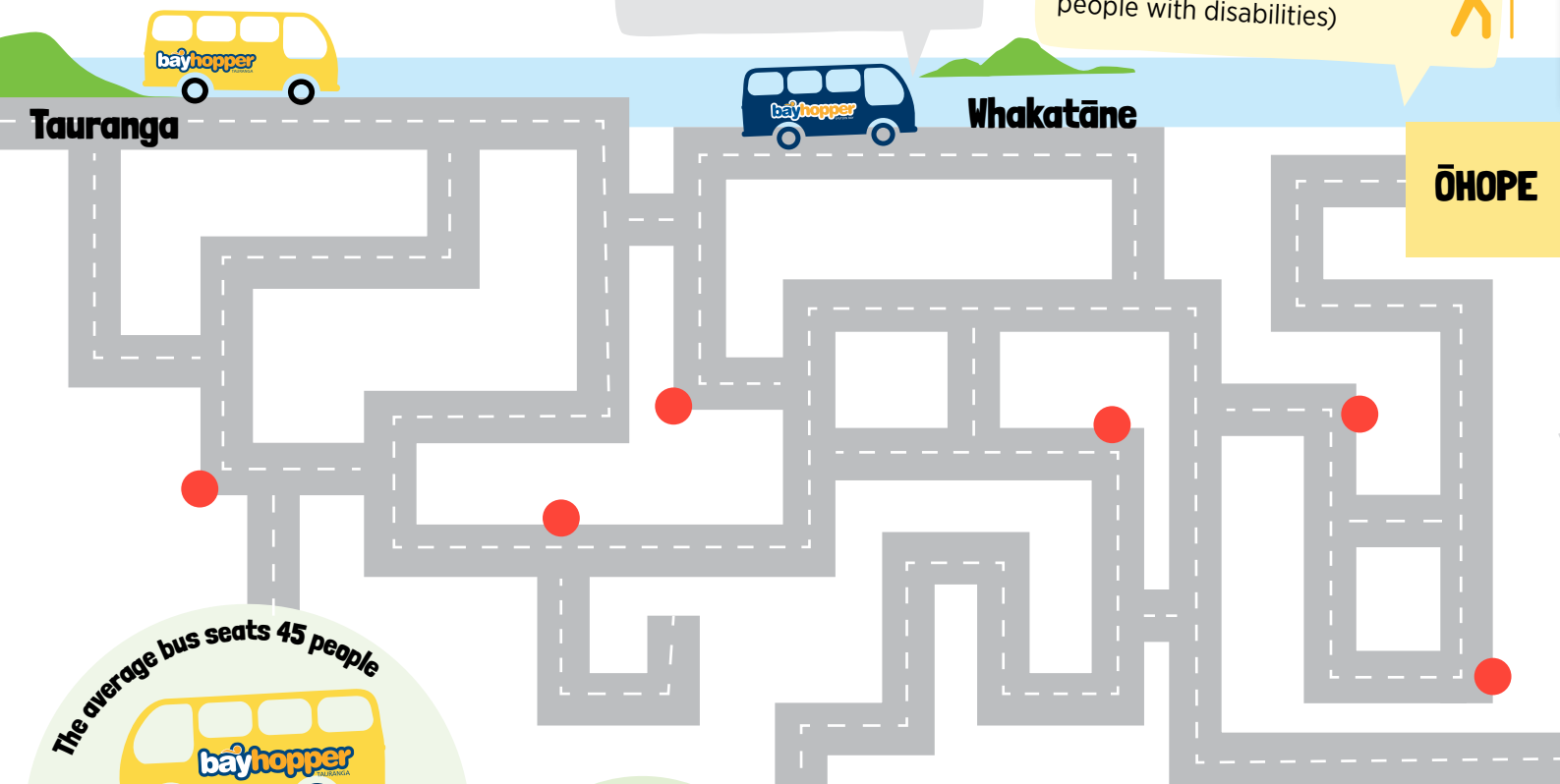
Accessible to all people in the
community (like the elderly and
people with disabilities)



What do you think?

**Find your way from
Tauranga to Ōhope.**

You must stop at all the bus stops
(red dots) once and change buses in
Whakatāne.



The average bus seats 45 people



The average car seats 5 people



Go to **www.baybus.co.nz** to plan your
whānau's next trip on a Bay Bus!

Send us a photo of yourself on one of the region's buses!

9 CARS = 1 BUS



Transport Technology

Transport technology is using tools and machines to help solve problems or make things better when moving people and goods.

For example: new safety features in cars, systems to manage the flow of traffic, tracking freight and buses, electric vehicles, apps and websites to plan our travel.



Draw a vehicle, machine or tool of the future that will solve a transport issue:



A **Smartride card** is a reusable prepay smartcard which can be used for travel, saving you the hassle of carrying cash and gives a discount on the regular cash fares on some Baybus services.



Transport technology in the Bay of Plenty



Smart Travel – a free website and app for adults to organise carpooling, public transport, walking and cycling with people in their community. Ask an adult if they have heard of it or used it – could they use it to carpool to work? It could save money, help unclog our roads and reduce their carbon footprint.



Plan your next bus trip on the **Bay Bus Journey Planner** at www.baybus.co.nz.

If you are in the Western Bay of Plenty you can use the **Transit App**, it shows



the next buses arriving at your location; allows you to set a favourite route and plan a journey in real-time.

This charger in Tauranga gets its energy from solar panels!



CHARGING STATION

Electric vehicles

Electric vehicles have an electric motor that is powered by a rechargeable battery, instead of a petrol motor.

They are good because:

- **Pollution-free driving** – no exhaust emissions that cause air pollution
- **Cheaper** to run
- **Quieter** than petrol or diesel vehicles.
- **Can be charged up at home**
- **Better for the environment** because most of New Zealand's electricity is generated from renewable sources instead of fossil fuels.



Get on your bike!

Spot the ten differences

WHICH IS THE SAFER CYCLIST?

Be safe, be **seen**.

Which of these cyclists will be easier to see on their way to school? Why?

Did you know that the most popular vehicle in the world is a **bicycle**!

It's hard to know for sure exactly how many there are but there are more than a billion... wow, that's a lot.

Cycling is a quick way to travel around; it's good for you, cheap and fun. So next time you are off somewhere, jump on your bike instead of in the car.



helmet, high vis reflector vest, bus stop, cloud, bus change, cycle lane, shoes, bike light, car colour, IBOP car gone

Tips for staying safe while cycling:

- ✓ **Work on your bike skills.** Practise the skills away from the traffic.
- ✓ **Check your bike before you ride.** Make sure your brakes are working, your tyres are pumped up, and your chain has grease on it (so it runs smoothly).
- ✓ **Wear a helmet.** Make sure it fits firmly and keep it done up. If your helmet gets dented or broken in a crash or dropped heavily, replace it.
- ✓ **Make sure you can be seen.** Bright-coloured clothes, lights and reflectors all help.
- ✓ **Look ahead.** For things that could be dangerous like potholes, drains, pedestrians or drivers who haven't seen you.
- ✓ **Ride at least one metre out from parked cars, and watch for drivers opening doors.**
- ✓ **Be predictable.** Ride in as smooth a line as possible and use cycle lanes when you can.
- ✓ **Choose a safe route.**
- ✓ **Know the road rules and follow them!**



COMPETITION: Design a Helmet

WIN

There are lots of
transportation related
prizes up for grabs!



Name: _____

Address: _____

Age: _____ **COMPETITION CLOSING: 5 November 2018**

Send your entry to:

POST: Bay of Plenty Regional Council,
Pollution Busters Club,
Freepost 122076,
PO Box 364, Whakatāne 3158

EMAIL: buzzbop@boprc.govt.nz

NEVER HAPPENS? HAPPENS

BuzzBOP knows that
'never happens, happens'
so here are some tips so
you can be prepared!

GET READY
GET THRU

IMPACT: CAN'T GET HOME

In an emergency, trains and buses may not be able to operate, roads may be closed and streets or neighbourhoods might be blocked off.

WHAT ACTIONS SHOULD YOU TAKE?

If you can't take your normal route home, how will you get there? Who will you go with? Where will you meet up if your street is a no-go zone?

GET READY!



SECOND MEETING PLACE

Agree on a meeting place if you can't get home. It might be the school, a friend's place, or with whānau.



KNOW YOUR NUMBERS

Make sure family members know how to contact each other and emergency services.



PACK A GETAWAY BAG

Have a getaway bag with walking shoes, warm clothes, some snack food and a bottle of water. A torch, batteries and radio are useful too.

TOP TIP

Make sure your family knows your school's emergency plans and that the school has the names of three people who could pick you up.

For more Emergency preparedness tips visit www.whatstheplanstan.govt.nz

Information in this newsletter was sourced and adapted from the following sources:
boprc.govt.nz, nzta.govt.nz, whatstheplanstan.govt.nz

Join up or change of address:



Please have an adult check that the details are correct before you send this.

- ☐ I am a new Pollution Buster
- ☐ I am already a Pollution Buster but my address has changed

Name _____

School _____ Birthday ____ / ____ / ____ day / month / year

Address _____

Are you (or your friends or family) 3-15 years old and live in the Bay of Plenty?

Are you interested in learning about the environment and sustainability?

Join Pollution Busters!



POST THIS TO: Bay of Plenty Regional Council, Pollution Busters Club, Freepost 122076, PO Box 364, Whakatāne 3158
OR EMAIL: buzzbop@boprc.govt.nz