IUNIOR RANGERS REVERS ACTIVITY BOOK



Sharing Nature's Stories

GO WITH The Flow

HOW RANGERS HELP KEEP RIVERS HEALTHY

Scan the QR code to hear about the work that rangers Damien, Darren and Julia are doing on River Red Gum Country along the Murray River.





From tiny creeks in the mountains to mighty rivers moving out to sea; waterways shape the landscape.

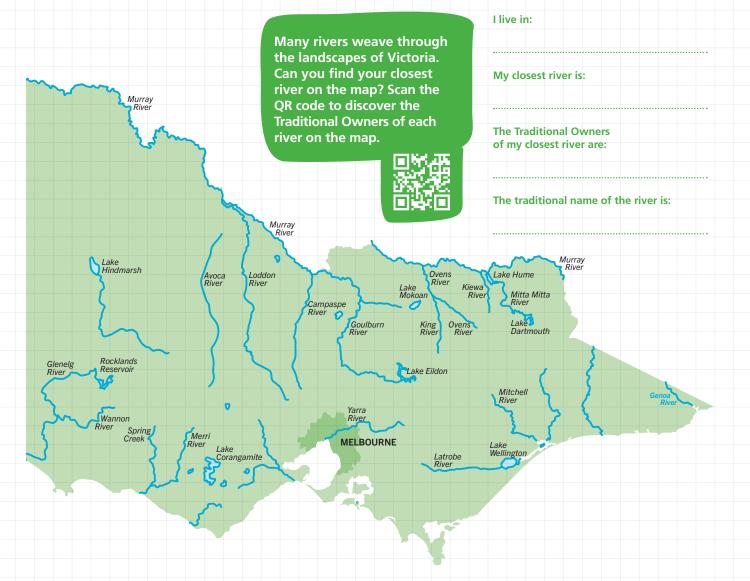
Rivers often begin high up in the mountains. Rain, snowmelt, or spring water trickles down in streams and creeks. Along the downhill journey, streams and creeks join to form larger rivers and waterways. Eventually, rivers make their way to the ocean or large inland lakes.

Moving water is powerful! It can carve a path through the earth

as it makes its way across the landscape. It moves loose soil, rock, plants and nutrients from one place to another.

Traditional Owners and river landscapes

Aboriginal cultural landscapes are the core of parks and reserves in Victoria. They show us how Aboriginal people engage with their surroundings and have practised their culture on Country for thousands of generations. You can find evidence of Aboriginal peoples' long connection with Country along many rivers in Victoria. Please respect these remarkable cultural features and leave them undisturbed.



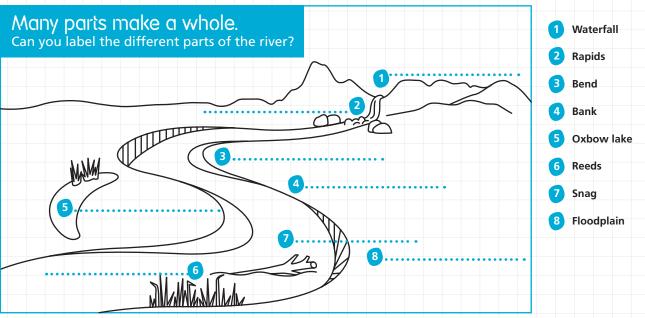
RIVERS OF LIFE



DID YOU KNOW? Many animals live along rivers – under the water, on the riverbank or up in the trees.

How many river critters can you find hiding in the grid?

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M	U	R	R	Α	Y	R	1	V	Е	R	Т	U	R	Т	L	Е	С	Н	Α	М	F	Southern Brown Tree Frog
E	К	Α	N	s	К	С	Α	L	В	D	Е		L	L	Е	В	D	Е	R	U	В	Spotted Marsh Frog
	~	V	~	D			D	_	D		_						D	~	NI	D	D	Water Boatman
L	C	Y	C	Ρ	Н	C	R	E	Р	R	E	V	L	1	2	Μ	В	C	N	R	Ρ	Australian Water Dragon
A	R	S	D	Y	Т	Q	Y	U	I	0	Ρ	L	M	J	В	G	Ν	С	V	R	Р	Common Long-necked
C	Х	Ρ	S	Α	R	R	U	В	Α	Κ	0	0	Κ	G	Ν	1	Н	G	U	А	L	Turtle
Е	F		т	н	R	W	J	К	L	Р	М	N	С	V	к	S	К	R	т	Y	А	Murray River Turtle
	÷								_												-	Black Swan
M	X	N	Н	G	Α	J	K	E	R	В	R	0	L	G	A	В	0	Q	В	C		Silver Perch
0	D	Y	В	Ν	K	Α	S	D	Н	K	U	R	E	R	А	Н	Α	Μ	L	0	Y	Short-finned Eel
N	А	С	V	Ν	А	Μ	Т	Α	0	В	R	Е	Т	А	W	С	L	А	А	D	Ρ	Broad-shelled Turtle
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0	Т	Y	A	Н	E	W	U	1	Ν	C	Α	L	Q	E	Y	Y	U	- 1	S	0	Р	Platypus
R	L	F	S	Р	0	Т	Т	Е	D	М	А	R	S	Н	F	R	0	G	W	S	Α	Laughing Kookaburra
M	Ν	_	G	S	Н	0	R	т	F		Ν	N	Е	D	Е	Е	L	Е	А	Е	W	Murray Cod
		-	- -	D	^		NI	10/	7	0	K	6		D		^	6	0	NI			Koala
A	U	S	1	R	A	G	Ν	W	Ζ	Р	K	С	Y	D	R	A	G	0	N	L	K	Lace Monitor
Т	S	Н	D	Н	J	E	R	Р	Q	Α	Μ	В	Ζ	0	W	Q	S	A	Z	С	Ν	Mosquito
A	U	S	Т	R	Α	L	-	А	Ν	W	Α	Т	Е	R	D	R	А	G	0	Ν	W	Red-bellied Black Snake



FINE DINING ON THE RIVER FRONT

Rakali are one of Australia's largest rodents. These native water rats are known for their messy table manners.

Rakali are clever and adaptable predators. The shape of their body helps them move quietly and quickly through the water. They have thick, water-repellent fur, and a furry, white-tipped tail about 35cm long – that's almost as long as their body!

Rakali live alone in riverbank burrows. Their favourite snacks are fish, minibeasts, mussels, snails, frogs, spiders, aquatic insects, eggs, fungi and even water birds. After hunting, they return to their dining table to eat – this might be a log, a rock or the muddy riverbank. Once they have finished eating, Rakali will scatter the remains of their meal around their picnic spot for everyone to see.



© Hans & Judy Beste / Lochmann LT

Aguel the Rakali had a feast on the riverbank last night.

Owner in the riverbank last night.

Ownerint last nigt.

Owneri

DON'T WASTE **OUR RIVERS**

Read the story of a river and then get ready to make your own. You will see how almost everything that goes into the river can impact wildlife as it makes its way out to sea. Little actions can have big impacts on rivers.

This is the story of a river. It travels from high in the mountains of Victoria, across the land and towards the ocean. First, the river flows through the forest of a national park. The rain washes leaves and debris into the river.

The river flows through farms. One farmer lets their animals disturb soil on the riverbank. Another farmer adds more fertiliser than their crops can use. The rain carries soil and fertiliser into the river.

On the weekend, people from the town use the local park where the river flows. Someone goes fishing and leaves their line behind. Another group enjoys a **picnic** in the park. Wind blows their rubbish into the river before they can collect it to take it home.

When it rains in the town, oil and rubbish on the **roads** wash into stormwater drains. These drains flow into the river.

The **industry** buildings at the edge of town use soap to keep their equipment clean. Sometimes the dirty water is washed into the gutter, which flows into stormwater drains and into the river.

The river passes through the river mouth, called an estuary, before flowing out to sea where it ends its journey. What do you think about all the things the river brings into marine habitats?

MAKE A RIVER

Remember to ask an adult to help you. Place your clear container full of water on the floor or the table. Measure out each of the items from the list. When a **bold** word is mentioned in the story, add its matching item to your container of water. You might like to label each item with its bold word so that you don't forget when to add it.

REMEMBER TO

CARE FOR YOUR

LOCAL WATERWAYS

WHEN YOU FINISH

Remove any plastic items from your river,

and pour the water into a section of

the garden where

can break down.

the other ingredients

ITEM	HOW MUCH
A clear container filled with water	3-5L water
Forest Tea and mulch	1 tbsp tea leaves, 1 tsp mulch
FarmsSoil andbaking powder	1 tsp of each
Fishing Fishing line or string	1 piece of line or string
Picnic Small pieces of plastic	A handful of pieces
Roads Coffee grounds and cooking oil	¹ ∕₂ tsp of each
Industry Soap	A few drops shaken up in ½ cup of water

HOW I CAN HELP KEEP RIVERS HEALTHY

Follow the Junior Ranger Way and take my rubbish home

Take my fishing line and hooks home

Conserve water at home

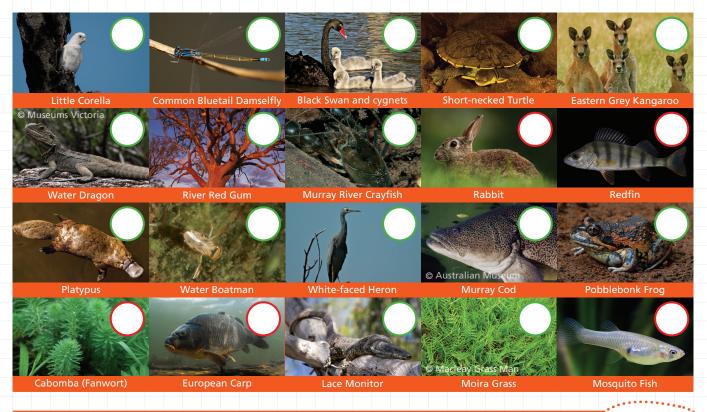
Pick up my dog's poo

Join a tree planting day in my local park

juniorrangers.vic.gov.au

DO I BELONG?

Some plants and animals naturally belong in waterways, we call them native species. Others have been introduced by humans. They can cause problems by competing with native species for food and homes, or by eating them! When native or introduced species cause problems, we call them pests. Identify which species are native to river habitats and which ones are introduced pests. Write an **n** for native or **i** for introduced in the bubble next to each picture.



DRAW A HEALTHY RIVER HABITAT

What native animals will you include in your picture? What homes do they need?

REMEMBER A Junior Ranger is always learning about the environment. Use other activities in this book to help you create a river habitat.

STAYING SAFE WHILE HAVING FUN

Waterways are fun places to cool off and relax. It is important to stay safe and learn how to tread lightly when in river habitats.

Parks Victoria uses signs to help you find the best places to enjoy activities. Signs let you know if something is dangerous or not allowed. This protects the river habitat.



Match the signs to their meanings. Draw a line to the matching sign next to the correct meaning.



CODE FOR CARING

Victoria's networks of parks and reserves form the core of Aboriginal cultural landscapes. Parks Victoria acknowledges the continuing connection that Traditional Owners have to these landscapes and recognises their ongoing role in caring for Country on which we learn, play and live.

Camping can be a lot of fun. Next time you go, help Parks Victoria rangers care for rivers by being a responsible camper.

Read the Junior Ranger top tips for being a responsible camper. Are the people in the picture following these tips? Circle parts of the picture where you can see the tips are not being followed. Don't forget to colour the picture when you are finished.

JUNIOR RANGER TOP TIPS

Light a fire

2

Fallen logs and branches are important habitat provided at the for animals. Bring firewood with you when camping.

3 Camp more in the fireplace than 20 metres from the riverbank. Be careful campsite. This reduces the risk to check for of fires getting branches above out of control.

4 Keep wildlife wild by only sharing your food with other humans. you to stay safe.

5 Leave only footprints keep your campsite clean and take your rubbish home with you.

6 healthy by away from the banks.

7 Keep the river disposing of any dirty water sure your dog stays on a leash.

Think about your campsite neighbours – keep the noise down and make

8 Relax and enjoy the river! Just make sure an adult is watching if you want to go in the water.

Scan the QR codes to learn about actions you can take at watery wonderlands. AT HOME

Create a rain garden to help protect creeks from stormwater runoff.



AT A RIVER

Become a citizen scientist by recording observations of local waterways.

AT THE BEAC Join a beach clean

to stop pollution entering the ocean.



