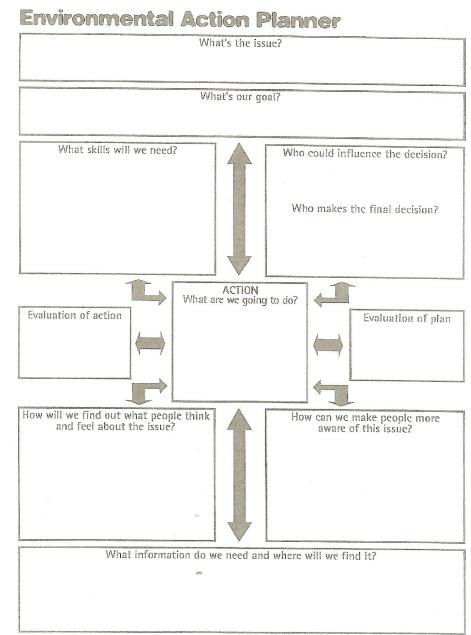
Stage Seven — It's all about action!



Environmental action planner courtesy of Auckland Regional Council Stormwater Resource 'City Issues' kit



www.whitebaitconnection.co.nz

WhiteBait Connection (WBC) Student Learning Journal

Name:

Room:

School:

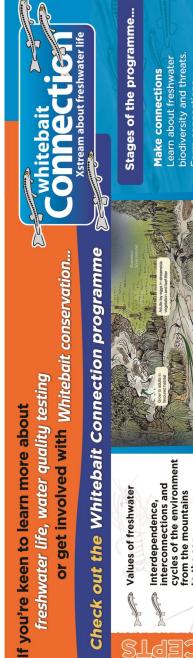


Te aki i te hunga tangata te tiaki inanga

The Whitebait Connection (WBC) is a non-profit action based community conservation education programme offering concrete and specific ways in which all New Zealanders can come to understand and become involved in the future health of our local streams, rivers, lakes and wetlands.

The Whitebait Connection is a programme of the Mountains to Sea Conservation Trust (est. 2002)







Stage Six — Finding the treasure

Draw your number on the values continuum below

1 (don't value freshwater and knowingly pollute it)

(Regularly take action to avoid pollution) 10

Explain your rating below and why /if it's changed...

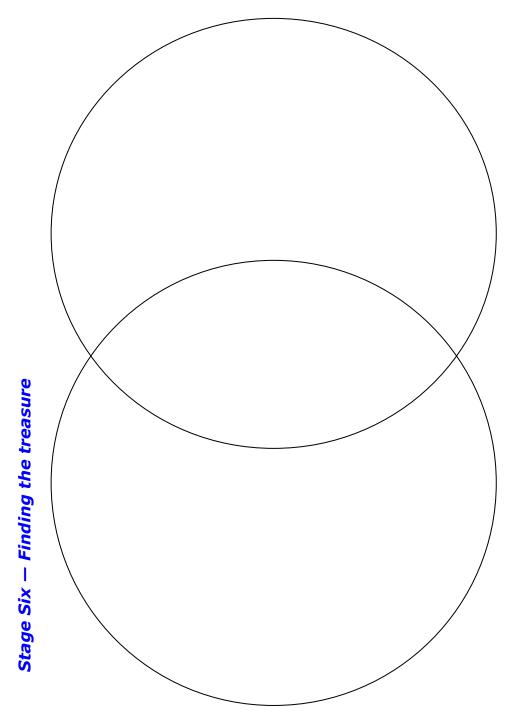
Draw your number on the continuum below to show how healthy you think the freshwater in your catchment is...

1 (so polluted that it's dead)

5

(So healthy you could drink it) 10

Explain your rating below and why/if it's changed...



These are the stages of the inquiry that we will do:

- Making Connections
- Strengthening Connections
- Dive In
- Diving Deeper
- Explore and Discover
- Finding the treasure
- It's all about the action

Each of these stages have associated activities that are included in this learning journal—have fun doing them!

You can write the dates for your experiences with your Whitebait Connection Coordinator below:

- 1.) Freshwater Biodiversity and Threats Workshop
- 2.) Field trip planning Workshop
- 3.) Field trip dates
- 4.) Field trip reflection workshop
- 5.) Action Planning workshop
- 6.) Celebration Day

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tage One — Making Connection

Before your first visit from your WBC coordinator, fill in the first two columns..

dy know about What I would like to find What I learnt about fresh-	. water (complete during the pro-	gramme)
What I would like to fi	out about freshwater	
What I already know about	freshwater	

Stage Five — Explore and Discover

Field Trip Two	

Stage Five — Explore and Discover

Write a summary of field trip experiences below including what you did, what you learnt, what the results of the tests were and what you enjoyed the most and found interesting...

Field Trip One:		

Stage Two — Strengthening Connections

Draw your number on the values cont	tinuum belo	w
$oldsymbol{1}$ (don't value freshwater and knowingly pollute it)	5	(Regularly take action to avoid pollution) 10
Explain your rating below	W	
Draw your number on the continuum ter in your catchment is	below to sh	ow how healthy you think the freshwa-
1 (so polluted that it's dead)	5	(Place a lot of value on freshwater) 10
Explain your rating below	W	

Choose the correct name of the habitats pictured below from the following list:

Lake Stream River Pond









Stage Four — Diving Deeper

Te Reo Maori—He Timatanga

Using what you've learnt from the WBC identification charts and the 'Guardians of the Mauri' DVD, fill in the blanks in the table by choosing the right translation from the list below...

Waiora	Eel
Mauri	Mayfly
Wai Maori	Guardian
Akoranga	Water
Kutai	Crayfish
Whenua	Principle

Wai		
	Life-force	
Piriwai		
	Living Water	
Tuna		
	Mussel	
Koura/Kewai		
	Freshwater	
Kaitiaki		
	Investigating	
Kaupapa		
	Land	

Stage Four — Diving Deeper

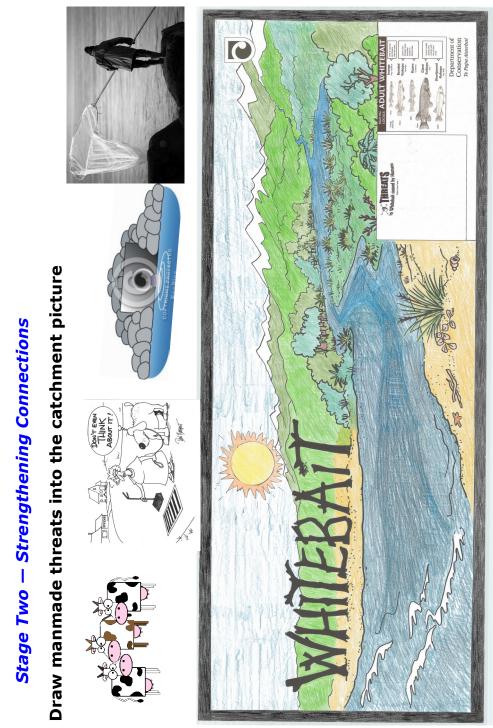
The effect of land use on waterways and food webs...

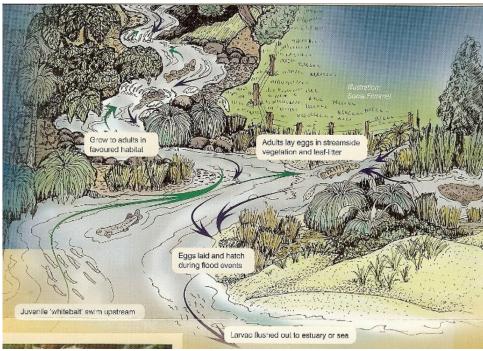
What would happen to the Whitebait Connection food web if...

1.) Lots of trees were cleared from the land around a stream...

2.) Toxic pollution entered the stream from the storm water drains ...

3.) Farm effluent entered the stream...





Explain the lifecycle of the Whitebait below...

Stage Four — Diving Deeper

Three things that live in freshwater are...

- 1.)
- 2.)
- 3.)

Three things that I learnt about studying freshwater are...

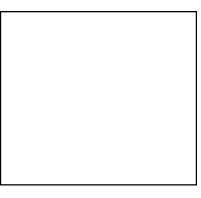
- 1.)
- 2.)
- 3.)

I would like to find out more about.....

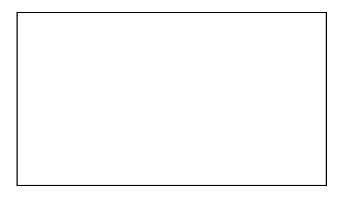
Stage Four — Diving Deeper

Label the following equipment with their correct names and explain what they are used for ...













Stage Two — Strengthening Connections

Food Webs—The Whitebait Connection

Draw arrows from one organism to the next to show what eats what.

















After the Whitebait Connection Freshwater Biodiversity and Threats Workshop...

Match the words with the correct definition by drawing a line between them...

Catchment Belonging exclusively or confined to a particular place. Is

native and also not found anywhere else in the world.

Biodiversity Cause (someone or something) to be vulnerable or at risk;

endanger

Habitat The variety of plant and animal life in the world or in a

particular habitat, a high level of which is usually consid-

Native the natural home or environment of an animal,

plant, or other organism.

Endemic An area of land where all of the water drains into one

collection point.

Threatened a person or thing likely to cause damage or danger.

Lifecycle An organism indigenous (found naturally in)

to a particular region or country.

Mauri The small silvery-white young of herrings, sprats, Galaxi-

ids and similar marine fish, eaten in numbers as food.

Threats the presence in or introduction into the environment

of a substance which has harmful or poisonous ef-

Whitebait The series of changes in the life of an organism including

reproduction.

Runoff (in Maori culture) life force or essence

Pollution The terrestrial zone that fringes the edges of an aquatic

habitat.

Riparian the draining away of water (or substances carried in it)

from the surface of an area of land, a building or struc-

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Stage Four — Diving Deeper

Write down the plans for your class field trip in the space below including the date, time, what to bring, where you're going, what the main objective and tasks are and what you're looking forward to most...

Stage Three — Dive In!

Now that learnt heaps about freshwater and your local freshwater environment you might have some 'big questions' that you would like to get answered by getting out for a field trip with your WBC coordinator. Some examples of big questions are: how healthy is the water in my local waterway? What lives in my local waterway? Write down your questions below...

Stage Two — Strengthening Connections

How much is fresh?



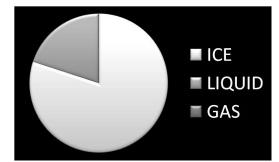
How much of the water the world is fresh? _____%

How much of the water in the world is salt? _____%

What are the 3 different forms that water takes?

 I_{-} G_{-} L_{--}

Of the small % of our world's water that is fresh how much is in each of the forms you listed above?



Only a small amount of the world's water is in a

liquid form and available (not underground) and clean enough for us to drink (not polluted). How much?

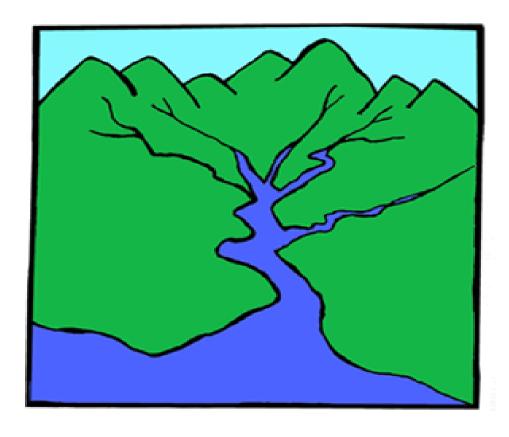
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Below is a picture of a C _ _ _ _ . Everybody lives in one of these.

Draw in the different parts of the water cycle in the picture below..

Evaporation Condensation

Precipitation Collection



What sort of catchment do you live in?

Stage Two — Strengthening Connections

Go for a walk with your class to view your catchment...

Is the shape of your catchment a 'V', a 'U' or a wide flat 'U'?

What is the name of the main river in your catchment?

What are the main land uses in your catchment?

Sketch a picture of your catchment below...

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