



**maitland**  
city council

**Discovered  
Walka Water Works**

**WALKA DISCOVERY TRAIL RESOURCES FOR STAGE 2 (YEARS 3 AND 4)**

# ECOLOGY TRAIL BLOOMS MATRIX : STAGE 2 (YEARS 3 AND 4) WALKA WATER WORKS

## EXCURSION AND IN-CLASS ACTIVITIES TO SUPPORT THE TEACHING OF HISTORY, SCIENCE AND GEOGRAPHY SYLLABUSES

MULTIPLE INTELLIGENCES	KNOWING	UNDERSTANDING	APPLYING	ANALYSING	CREATING	EVALUATING
<b>VERBAL</b> I enjoy reading, writing and speaking	Make a list of animals and birds that can be found at Walka Water Works. What parts of the environment do they need to survive?	Write about the differences in lives between resident and migratory birds.	Imagine you live in 1888 when the Walka Water Works began. To pump water. Handwrite a letter about how your life changed after water was pumped to your home.	Write about changes that have occurred at Walka Water Works as a result of human activity.	Use word art to describe three different living things at Walka Water Works. Use word art to describe three non living things at Walka Water Works.	Describe the different types of bird habitat at Walka Water Works.
LEARNING OUTCOMES	ST1-11LW GE2-1	ST-1-11LW	GE2-2	ST2-8ES GE2-1	ST2-10LW GE2-1	ST1-11LW GE2-1
<b>MATHEMATICAL</b> I enjoy working with numbers and science	Do birds congregate in a particular part of the reservoir? How would you design an experiment to test whether this hypothesis is true or not?	Describe different parts of a map that would be useful when you are exploring Walka Water Works.	Using the Walka Water Works Map use the scale to measure distances between each view point.	Construct a map with a legend showing birds you might see at viewpoints shown on the Walka Water Works map. Tip: make a symbol for each bird and show these on the map, then in a legend with their name	Construct a graph using the Walka Bird list showing birds that live at Walka Water works, and where they can be seen.	Estimate the height of different plants and trees you see at Walka Water Works. Write a description of what they look like and draw a diagram to show their different sizes.
LEARNING OUTCOMES	ST2-11LW GE2-4 GE2-2	GE2-4	GE2-2	GE2-1 GE2-2	ST2-10LW GE2-1	ST2-10LW GE2-4
<b>VISUAL</b> I enjoy painting, drawing and visualising	Choose a bird that lives at Walka Water Works and make a detailed drawing of its life cycle.	Make a list of some of the ways you can recognise different types of birds.	Cut out pictures of birds from the bird list and paste them on drawings of their habitats at Walka Water Works.	Draw features of Walka Water Works that help birds and other animals survive.	Create a poster that promotes the environmental values of Walka Water Works to local residents	Make a pictogram using drawing of birds you saw at Walka Water Works and from what Location View Point.
LEARNING OUTCOMES	ST1-10LW GE2-1	ST1-10LW	ST1-11LW GE2-2	ST1-11LW GE2-1 GE2-2	ST1-10LW GE2-3	GE2-1

MULTIPLE INTELLIGENCES	KNOWING	UNDERSTANDING	APPLYING	ANALYSING	CREATING	EVALUATING
<p><b>KINAESTHETIC</b></p> <p>I enjoy doing hands on activities</p>	<p>Take close up photos or draw textures of different plants at Walka Water Works. Paste them in a journal workbook.</p>	<p>Try to watch a bird for a while. Look at what it is doing – is it hiding, resting or looking for food? Write down what you observe. Identify any mutually beneficial relationships which you observe.</p>	<p>Create a board game based on birds, animals and predators along the ecology trail. Use the distances between the Viewing Points.</p>	<p>Use nature Journaling to record your observations at Walka Water Works. Tip: Discovery Journal Activity Sheets.</p>	<p>Make a model of the environment at Walka Water Works and show some different parts of its habitat for birds and animals. Use colour to show living and non living things.</p>	<p>Use an aerial photograph of Walka Water Works. Identify and mark different types of habitat on the photograph.</p>
<p>LEARNING OUTCOMES</p>	<p>ST1-10LW GE2-1</p>	<p>ST2-11LW GE2-2</p>	<p>ST2-11LW</p>	<p>ST2-11LW GE2-4</p>	<p>GE2-1</p>	<p>ST2-11LW GE2-4</p>
<p><b>MUSICAL</b></p> <p>I enjoy making and listening to music</p>	<p>Make a list of different sounds you can hear at Walka Water Works and where you hear them. If you have a suitable device, make sound recordings of what you hear.</p>	<p>Research a song that has been inspired by a bird song. Describe the instruments that have been used.</p>	<p>Listen to a bird song on line, and describe how it makes you feel. If you have a device capable of recording the bird calls, create a digital recording.</p>	<p>Research the differences between bird calls and bird songs.</p>	<p>Using Garageband, prepare a soundscape that uses the recordings that you collected at the Walka site.</p>	<p>In a small group listen to the songs of 3 birds and take turns at imitating them.</p>
<p>LEARNING OUTCOMES</p>	<p>GE2-1</p>			<p>ST2-11LW</p>		
<p><b>INTERPERSONAL</b></p> <p>I enjoy working with others</p>	<p>As a class group, tally the number of different birds you saw at Walka Water Works and in what location they were seen.</p>	<p>As a group chose an animal or bird that we know probably live at Walka, but you can't see. Where could they be? Why are they hard to see? Report back to the class.</p>	<p>In a small group draw diagrams that show some features of plants and animals that help them survive at Walka Water Works,</p>	<p>As a group, discuss how could we encourage more birds and animals to live at Walka Water Works.</p>	<p>As a small group, plan and prepare a video that will be used to advertise the attractions that are available at Walka Water Works. Develop a script, come up with storyboards and plan the types of images that you need.</p>	<p>As a group, prepare a critique of another group's video idea. Present back to the class.</p>
<p>LEARNING OUTCOMES</p>	<p>GE2-4</p>	<p>ST1-11LW GE2-2</p>	<p>ST1-11LW</p>	<p>ST2-11LW GE2-3</p>	<p>ST2-11LW GE2-3</p>	<p>GE2-3</p>

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<p><b>INTRAPERSONAL</b> I enjoy working by myself</p>	<p>Take rubbings of different textures you find at Walka Water Works. Paste them in your journal workbook and describe what they were, and if they were living or non living things.</p>	<p>Imagine you are a park ranger working at Walka Water Works. What jobs might you do to look after birds and animals.</p>	<p>List some differences between bush birds and water birds and their habitats.</p>	<p>Use Nature Jounalling to record your observations at Walka Water Works. Tip: Use Discovery Journal Activity Sheets.</p>	<p>Using an electronic device, create a slide a slide show of what you saw at each view point along the Ecology trail.</p>	<p>Describe changes that have been made at Walka Water Works since it was a natural lagoon. Have these been positive or negative for the environment?</p>
	ST2-10LW	ST2-11LW GE2-4	ST1-11LW GE2-1	ST2-10LW GE2-4	GE2-1	GE2-3