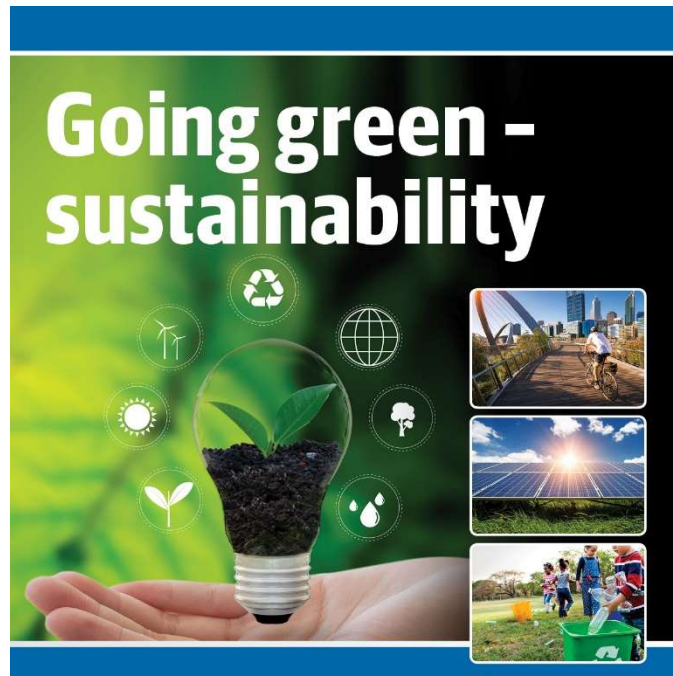


ANSWER GUIDE:

Going green - Sustainability



Term 1, 2020

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Part 1: Sustainable Earth

PAGE 1

Activity title	Answers
Successful sustainability	

PAGE 2

Activity title	Answers
Getting hot, so what?	
What about waste?	<p>Possible answers:</p> <p>Liquid waste – storm water, pond clean outs</p> <p>Non-recyclable solid rubbish – wax paper, Styrofoam, window glass</p> <p>Organic waste – food scraps, grass clippings, garden waste</p> <p>Recyclable rubbish – aluminium cans, glass jars, plastic bottles, steel cans</p> <p>Hazardous waste – weed killer, medical waste, paint</p>

Activity title	Answers									
Evaluate	<p>Students' own response, possible answers are:</p> <table><tr><th></th><th>Pros</th><th>Cons</th></tr><tr><td>Bottled</td><td><ul style="list-style-type: none">• Convenient and portable• Widely available in shops• Healthier choice than soft drink</td><td><ul style="list-style-type: none">• Manufacture of the bottle uses a lot of water• When you've finished drinking it you have waste• Costs more• Chemicals in the plastic can seep into the water over time and in hot conditions</td></tr><tr><td>Tap</td><td><ul style="list-style-type: none">• Widely available from public taps, drink fountains, cafes/restaurants• Free when out, very cheap at home• Can be portable if put in a reusable drink bottle</td><td><ul style="list-style-type: none">• Some say they don't like the taste</td></tr></table>		Pros	Cons	Bottled	<ul style="list-style-type: none">• Convenient and portable• Widely available in shops• Healthier choice than soft drink	<ul style="list-style-type: none">• Manufacture of the bottle uses a lot of water• When you've finished drinking it you have waste• Costs more• Chemicals in the plastic can seep into the water over time and in hot conditions	Tap	<ul style="list-style-type: none">• Widely available from public taps, drink fountains, cafes/restaurants• Free when out, very cheap at home• Can be portable if put in a reusable drink bottle	<ul style="list-style-type: none">• Some say they don't like the taste
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A sea of plastic	Students' own response									
What is 'bioplastic'?	Bioplastics are plastic materials made from renewable natural sources, such as vegetable oil, recycled food waste, straw, corn starch, woodchips etc, and are biodegradable (able to decompose back into its basic components and blend back into the earth).									

Activity title	Answers
Go governments!	<p>Zimbabwe Hamburg, Germany Taiwan Kenya France United Kingdom Malibu, California Norway</p>
Sharing solar	Possible answers: heating water, outdoor lighting, transportation, portable equipment such as torches and calculators, light up road signs...

Part 2: Sustainable community

PAGE 1

Activity title	Answers
Community effort	Students' own response

PAGE 2

Activity title	Answers
Recycling in WA	Students' own response
Can it be recycled?	Yes: aluminium cans, steel cans, glass, cardboard, some plastic containers (no meat trays), paper No: plastic bags – take to REDcycle batteries – take to local battery collection point aerosol cans – take to local hazardous waste collection point bottle lids – take to Greenbatch or local collection point
Is FOGO the future?	Students' own response factoring in that the cost to the environment of not doing it has a longer lasting effect than the monetary cost of doing it.

PAGE 3

Activity title	Answers
Businesses taking responsibility	Answer depends on location. E.g. Oral care - Australian Dental Association WA, 54-58 Havelock Street West Perth Writing instruments - Cambridge library, 99 The Boulevard Floreat
Out with the old	Student's own response. Possible answers: make a variety of products so people will buy more items, provide technology upgrades for a fee, customers who like the long lasting products will tell their friends to buy them or buy them for friends as gifts...
Wetland warriors	Students' own response
Future leaders	Kid members 10 – 24, adult members 25+






Activity title	Answers
Wind power	<p>They are all located on the coast.</p> <p>Wind speeds are usually higher over the ocean than over land, so wind farms on the coast get the benefit of strong winds coming off the sea.</p>
Green energy projects	<div> <div> <p>Project aim</p> <p>Kwinana Waste to Energy (WA) – thermally treat solid waste to produce steam for generating electricity</p> <p>Garden Island Microgrid (WA) – use the ocean to produce both power and desalinated water</p> <p>Residential Heat Pump Study (NSW) – measure the cost benefits of using ground power to heat and cool homes</p> <p>Advanced Compressed Air Energy Storage (SA) – improve the way that energy created by moving water is preserved for later use</p> <p>Synergy and Western Power's PowerBank trial (WA) – use community batteries to store excess green energy generated so it can be used later, rather than wasted</p> </div> <div> <p>Energy type</p> <p>Geothermal</p> <p>Hydropower</p> <p>Tidal energy</p> <p>Solar energy</p> <p>Bioenergy</p> </div> </div>


Part 3: Sustainable me

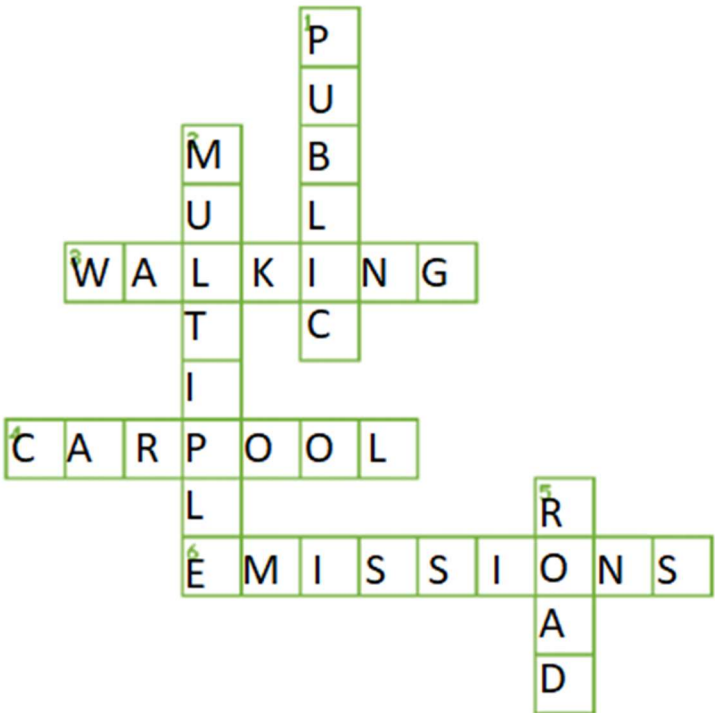
PAGE 1

Activity title	Answers
Children making change	Students' own response

PAGE 2

Activity title	Answers
The Five Rs	<div> <div>5</div> <div>  ROT </div> <div>Compost it, if you can</div> </div> <div> <div>4</div> <div>  RECYCLE </div> <div>Send items to have materials recovered to make something new</div> </div> <div> <div>1</div> <div>  REFUSE </div> <div>Say "no thanks" to items you don't need</div> </div> <div> <div>2</div> <div>  REDUCE </div> <div>Choose to get less</div> </div> <div> <div>3</div> <div>  REUSE </div> <div>Use it again, for the same or a different purpose</div> </div>

Activity title	Answers										
Food for thought	9. plants, 2. season, 4. processed, 3. plan, 8. list 5. farming, 7. community, 1. locally, 6. packaging										
Gorgeous gardens	 <p>Building a frog pond, bug hotels, bird bath or nest boxes for birds or bats</p> <p>Maintaining large trees</p> <p>Using native plants</p> <p>Composting or having a worm farm</p> <p>Using a broom instead of a leaf blower or hose</p> <p>Pulling weeds by hand</p> <p>Installing solar lights</p>										
Say “no” to single-use plastic	<table border="1"> <thead> <tr> <th></th><th>Possible answers</th></tr> </thead> <tbody> <tr> <td>Having a drink of water</td><td>bring a reusable drink bottle from home; public drink fountain</td></tr> <tr> <td>Picking up takeaway dinner e.g. Chinese</td><td>BYO containers for them to put your food in, BYO cutlery if you will be eating it away from home, have dine in instead, skip the bottled drink and use your own water bottle instead</td></tr> <tr> <td>Eating a meal in a food court</td><td>Choose a store that has reusable plates and cutlery, BYO cutlery set and food container, skip the bottled drink and use your own water bottle instead</td></tr> <tr> <td>Drinking a milkshake or soft drink</td><td>Order it dine in with no straw, BYO travel cup, BYO reusable straw</td></tr> </tbody> </table>		Possible answers	Having a drink of water	bring a reusable drink bottle from home; public drink fountain	Picking up takeaway dinner e.g. Chinese	BYO containers for them to put your food in, BYO cutlery if you will be eating it away from home, have dine in instead, skip the bottled drink and use your own water bottle instead	Eating a meal in a food court	Choose a store that has reusable plates and cutlery, BYO cutlery set and food container, skip the bottled drink and use your own water bottle instead	Drinking a milkshake or soft drink	Order it dine in with no straw, BYO travel cup, BYO reusable straw
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Activity title	Answers
Getting around	 <p>A crossword puzzle grid with the following words filled in:</p> <ul style="list-style-type: none"> 1 Down: PUBLIC 2 Down: MULE 3 Across: WALKING 4 Across: CARPOOL 5 Across: EMISSIONS 6 Down: ROAD
Energy saving tips	Student's own response based on suggestions from synergy.net.au/Your-home/Energy-tips/Energy-saving-tips