

ANSWER GUIDE: Going green: sustainable energy



Term 1, 2019

Part 1: New power generation

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Activity title	Answers				
What am I?	The old East Perth Power Station , which is still visible across the river from Optus Stadium. To find out more about its history and future plans, search online for 'East Perth power station' .				
Nuclear power	Students will have own responses.				

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Activity title	Answers				
Renewable v non-renewable	Three: wind, solar and water are renewable energy sources. Fossil and nuclear				
	energy is non-renewable.				
Sustainable energy jargon	A) Solar; B) Hydro; C) Bio; D) Geothermal; E) Ocean; F) Wind.				
Pros and cons	Students will have own responses.				
Jobs in the energy sector	Students will have own responses. Some examples include:				
	Process Engineer, Energy Analyst, Meter Reader, Underground Mine Operator,				
	Environmental Officer, Offshore Driller				
True or false?	True. It is also one of the cheapest renewable forms of creating electricity.				

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Activity title						Ans	wers					
Wind farm word search												
		1	R	R	Α	В	L	Α	K	J	N	
		Т	С	н	т	R	С	U	Q	þ	R	
		М	Α	Н	N	Ε	D	K	S	s	R	
		Р	С	0	Н	M	Н	Р	E	X	A	
		х	R	s	Р	E	E	A	X	4	Р	
		L	K	L	В	R	Х	М	В	z	Т	
		Р	Т	Υ	A	В	L	A	R	0	С	
		0	Т	N	G	A	N	V	K	1	s	
			C	J	G	Y	R	ı	С	D	U	
		Œ	H	0	Р	Е	Т	0)	N	V	
What is the common factor?	They are all on the	coas	t, ta	king	full a	adva	ntag	e of	winc	l roll	ing in	from the
Warradarge Wind Farm	Near Eneabba											

Part 2: Powering the home

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Activity title	Answers
Crossword challenge	Across: 3. Toaster; 7. Charger; 9. Dishwasher; 11. Fan; 12. Freezer.
	Down: 1. Iron; 2. Vacuum; 4. Oven; 5. Television; 6. Lamp; 8. Kettle; 10. Heater.

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Activity title	Answers								
No power, no problem	Possible answers:								
	Task	Modern day – with	Olden days – without						
		electricity	electricity						
	Cook a meal	Microwave, electric stove	Wood BBQ, wood fired stove						
		top	top						
	Wash clothes	Washing machine	Hand wash on a scrubbing board						
	Have a hot bath	Shower/ bathtub with hot	Use cold water or boil water						
		and cold taps	over a fire and bring it to the						
			tub						
	Light the house	Flick on a switch	Use candles or kerosene						
	at night		lamps						
	Be entertained	Computers, gaming consoles	Board games, crafts, outdoor play						
- 1									
Easy alternatives	Possible answers:								
	Cool off: use a hand-held fan, take off unnecessary clothes, have a cool shower,								
	have a cold drink, plant trees to create shade around your house.								
	Warm up: put on a blanket or extra clothes, have a warm drink, exercise, close windows and cover gaps that let in cold draughts air.								

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Activity title	Answers			
Reduce your carbon footprint	Some possible answers:			
	Wash clothes in cold water and line dry them			
	Switch off appliances at the wall			
	Turn off lights when leaving a room			
	Carpool when possible			
	Plant local, native trees			
	Buy locally grown produce and compost food waste			
	Reuse and recycle as much as possible			
	Buy second hand items			
	Switch to LED lightbulbs			
	Reduce water use – shorter showers, turn the tap off when brushing teeth			
	etc.			
Fill in the missing vowels	Switch to efficient lighting			
	2. Get a home assessment			
	3. Install solar power			
	4. Improve heating and cooling at home			

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