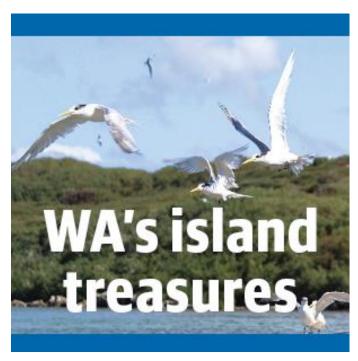
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ANSWER GUIDE

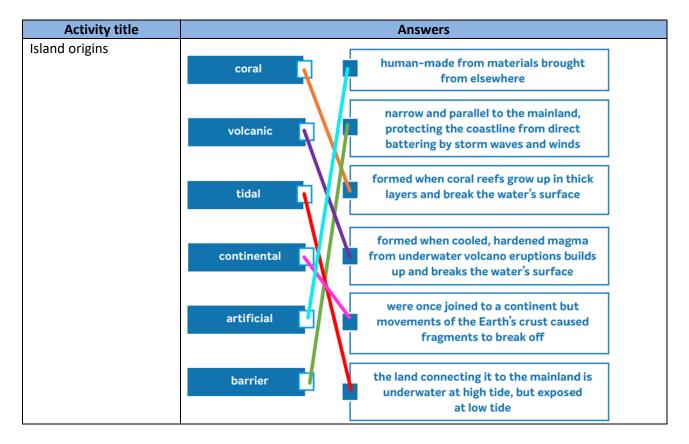


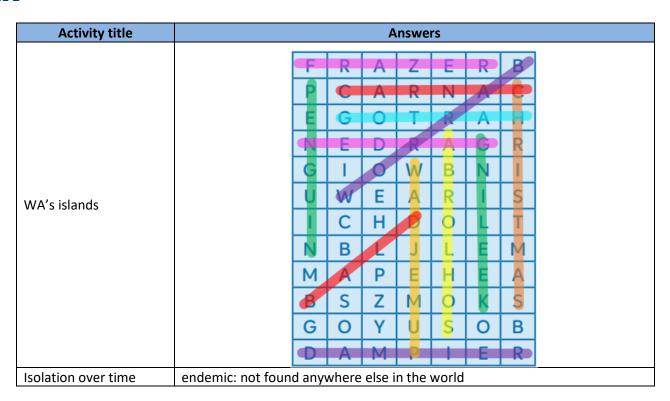
Term 3, 2021

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Part 1: Island life

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Activity title	Answers
Island inhabitants	all correct
True or false	bus and bicycle are the main modes of transport
	as cars are rarely used
	foxes were introduced here visitors can view Osprey nests which are over
	70 years old
	135 species of fish live in the surrounding waters few people live on the island, most workers
Evaluate	commute each day from the mainland student's own response

Activity title	Answers
Penguin Island: Explore	Penguin Island: tidal
Penguin Island: Explore	student's choice of accurate fact
Seal Island: Explore	endangered species: species of animal or plant that is seriously at risk of extinction
Seal Island: Explore	possible answers: sea lions have an external ear vs seals have an earhole; sea lions can move their hind flippers under their body to 'walk' on land vs seals cannot and scoot on their belly on land; sea lions have a long neck, allowing head to turn vs seals have a short neck with limited head movement; sea lions have larger front flippers without claws or fur vs seals have smaller front flippers with claws and fur.
Investigate	Threats: human disturbance (divers, boat traffic); entanglement in gillnets and debris; climate change affecting their feeding and breeding sites and food supply; pollution – oil spills; historic hunting for oil and fur also drastically reduced the population. What is being done: have been legally protected in WA since 1892; protected under national legislation since 1975; in 2018 WA government established sea lion protection zones around breeding colonies – use of gillnets is prohibited here
Water babies	Possible answers: tracks in the sand, a body pit (indentation in sand in the shape of a turtle), evidence of digging in sand, evidence of disturbed vegetation, a nest mound

PAGE 3 CONT.

Activity title	Answers									
Plenty of pincers	M									
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		Т		В			D		R	
				Ε						
	1	Р	U	R	Р	L	Ε			
Aquatic attractions	left to right: MOON	WR	ASSE,	ZEBI	RA SH	IARK,	SPAI	NGLE	D EM	PEROR

Activity title	Answers
Inland island	Kulijak Island
	Ron Courtney Island
Creating isolation	Students own response. Most begin 1 metre underground to prevent being
	dug under, have an overhanging hood at the top to prevent climbing over and
	the mesh has very small holes to prevent being stretched to a large enough
	size to fit through.
Island home	Student's own response. Consider how cats are effective hunters and how
	feral cats have impacted wildlife.
Inselberg 'islands'	Possible answer: different habitat conditions are suitable to different species.
	Having a variety of habitats (or microhabitats) close together means you can
	have a wider variety of species in a smaller area.
Build it and they will	student's own response
come	

Part 2: Islands under pressure

PAGE 1

Activity title	Answers
Perilous predators	BOODIE DIBBLER
	MULGARA WOYLIE
	HEATH MOUSE CHUDITCH

Activity title	Answers
Introduced threats	What does 'locally extinct' mean? A species is no longer found in an area it
introduced timeats	once inhabited, but is still found elsewhere in the world.
	feral cat - 4
	goat - 5
Unwelcome guests	weeds - 6
and a second garages	Black Rat - 1
	European Fox - 2
	rabbit - 3
	White-winged Fairy-wren - Barrow Island
	Spinifexbird - Mainland Australia (WA, NT, SA, QLD) and many WA islands
Landa Barba	(Muiron Islands, Peak Island, Serrurier Island, Bessieres Island, Thevenard
Local extinction:	Island, Doole Island, Roberts Island, Hermite Island (reintroduced), Barrow
Explore	island, Montebello Islands, Lowendal Islands, Passage Islands, Delambre
	Island, Dixon Island, West Moore Island, Sandy isdland, East Moore Island,
	Depuch Island, Ronsard island, Reef Island, Little Turtle Island)
	Possible answers include: ensure there are no rodents, insects or pests in
Local extinction:	your boat, check your clothing, footwear and camping equipment for soil or
Explore	seeds, check your food is free of insects and pests, do not bring pets, adhere
	to Parks and Wildlife Service guidelines
	1979 - D
	1998 - F
	2005 - B
Gone forever	2009 - E
	2010 - H
	2012 - A
	2014 - C
	2017 - G

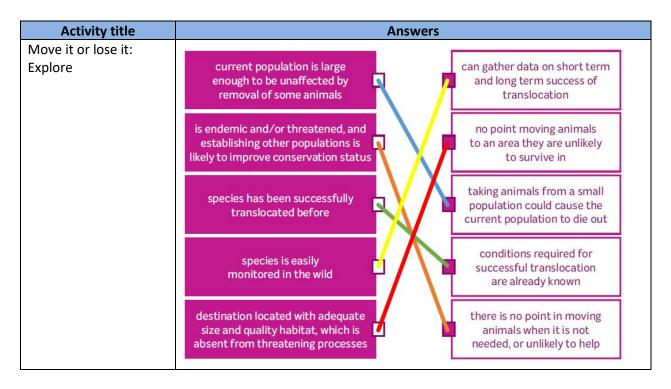
Activity title	Answers
In the poo	 Land was cleared for <u>construction</u> of buildings, jetties and tramlines. Feral <u>cats</u> which were brought by miners to control rat numbers thrived and <u>preyed</u> upon native birds, deterring those which may still
	 have been able breed in the <u>altered</u> habitat. Feed given to horses assisting miners included <u>seeds</u> which lead to exotic plants being introduced. The removal of native <u>vegetation</u> allowed introduced weed species to
	 thrive. Sheep brought as a food source for miners <u>overgrazed</u> vegetation removing cover for nesting birds and causing erosion.
Garden Island	 Visitors arrive by private boat only- Reduces the number of visitors as people without their own boat cannot go, no vehicles outside of the naval area. Lighting fires prohibited- Reduced risk of bushfire No animals or plants can be brought- Wildlife safe from introduced diseases and attack by pets, non-native plants and animals will not be introduced All rubbish must be taken home with you- Wildlife safe from accidentally eating rubbish or becoming entangled in it
	 feeding wildlife prohibited- Wildlife safe from eating food that is bad for them or not part of their usual diet, retain their wild behaviours for finding own food and do not become reliant to humans
True or False	 false true false true
Island industry: Explore	almost 400 species of plant 13 terrestrial native mammal species more than 110 bird species 44 terrestrial reptile species 1261 species of terrestrial invertebrates 24 species and subspecies are endemic to Barrow Island
Island industry: Discover	PERENTIE

Activity title	Answers					
A 'hot' topic	Climate- any long-term trends in weather over many decades					
Changing climate changing islands	rising sea levels sea turtle eggs impacted • warmer sand leads to mostly female hatchlings • extreme heat causes eggs not to hatch at all – threatening the species' survival					
	increase in wildfires • islands that don't burn often will end up with larger, more intense burns, causing severe damage • can be difficult to put out fires due to remoteness and/or lack of roads • destruction of habitat and loss of life					
	increased water temperature flood low-lying islands • some islands will disappear, along with the terrestrial species on them • migrating species may lose resting points and would need to find another route					
	increased air temperature slow the growth of coral reefs and lead to coral bleaching unlikely coral islands will be able to continue growing to keep up with rising sea levels coral reefs will erode, cannot support coral islands fish species lose coral habitat					
	changed fire regimes beaches will reduce in size or disappear loss of breeding sites for sea turtles and seabirds					
Warm women:	Possible answer: females need males to breed with to keep the species going.					
Evaluate	If there are not enough males, the species might become extinct					
Warm women: Explore	Loggerhead Green Hawksbill					
Vanishing islands: Evaluate	Student's own response					
Vanishing islands:	possible answers include: swap some car rides for walking/cycling/scootering,					
Explore	carpool with others going to the same place, turn off					
	lights/heating/cooling/electronics when not in use, turn off appliances at the					
	wall, reduce your use of single use plastics and over packaged products (as the					
	production of these causes emissions), don't run the washing					
	machine/dishwasher until it's full (less cycles needed), reduce your waste –					
	donate, recycle or repurpose what you can to save the resources from being wasted					

Part 3: Island havens

PAGE 1

Activity title	Answers										
Extinct on the											
mainland							D				
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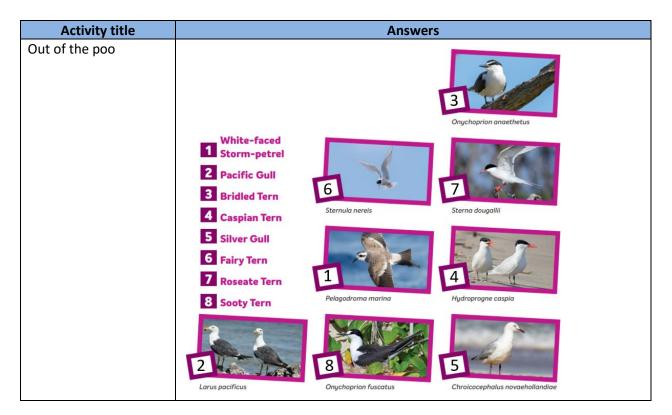


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Activity title	Answers			
Move it or lose it: Evaluate	 ✓ evidence the species previously lived there good café close by ✓ threatening processes are either not present or adequately managed ✓ site has suitable areas of habitat to support a growing population has lots of weeds ✓ site is monitored and managed after translocation 			
Collection methods	A B B B B B B B B B B B B B B B B B B B			
Helping hand (ranking)	Student's own response			
Helping hand	Possible answers include: volunteers feel like they are 'doing good', learn more about a topic that interests them, make new friends, find people with similar interests, develop new skills			

Activity title	Answers
Christmas miracle: Explore	Captive breeding is the process of breeding animals outside of their natural environment, for example in a zoo. Captive breeding programs target specific species and use human intervention as required to ensure breeding is successful.
Christmas miracle: Evaluate	It creates a backup population – if anything happens to the collection on Christmas Island there are some at Taronga Zoo that could continue the breeding program.
WA's largest island	Q1: It was night, because this species is nocturnal Q2: Dark cloth bags used. Keeping the animals contained in a soft, dark space reduces their stress when being transported, and is easy for them to get out of upon release.
Lancelin Island Skink: Explore	Any correct fact. Possible answers: lifespan in the wild is 6-7 years; Perth Zoo has an 18+ year old Lancelin Island Skink named Lance; Critically Endangered due to changes in habitat, and being restricted to only one population; Perth Zoo and Department of Biodiversity Conservation and Attractions were involved in the breeding program
Lancelin Island Skink: Evaluate	They didn't want to risk getting it wrong after taking Critically Endangered animals from the wild. By practicing with a similar species, they had a head start on knowing what conditions were most likely to result in successful breeding.

PAGE 3 CONT.



Activity title	Answers
Flourishing flora	White-winged Fairy-wren
From island to arid	Students' own response. Consider that this leaves a breeding population in a
inland	managed area, to top up the wild population outside the fence as needed.