

ANSWER GUIDE: Desert dwellers



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Part 1: Life in the desert

PAGE 1

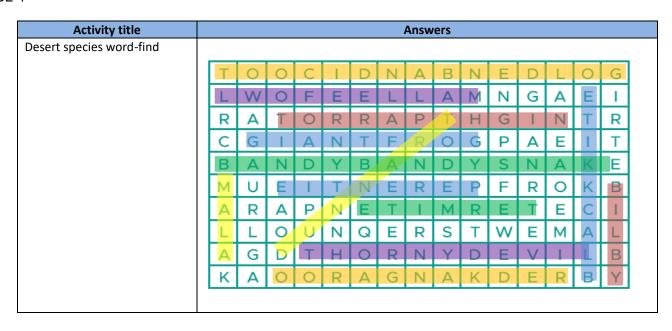
Activity title	Answers
Defining a desert	Australia's deserts are subtropical.
	Antarctica is the driest continent and is a polar desert.

PAGE 2

Activity title	Answers						
Desert country	3 - Gibson Desert						
	4 - Great Sandy Desert						
	5 - Tanami Desert						
	2 - Great Victoria Desert						
	1 - Little Sandy Desert						
What's in a name?	All of them are correct.						
Where's the water?	Possible answers: Morrissey Creek, Lake Disappointment, Lake Dora, Rudall River,						
	Nullagine River, Lake Mackay, Lake Gregory, Jubilee Lake and more.						
Duck's in a desert?!	Oasis - a fertile spot in a desert where water is found.						

Activity title	Answers					
Focus on flora			1- 1			
	leaves hang vertically		F C			
	plant drops its leaves in dry spells	plant drops its leaves in dry spells				
	waxy coating on leaves		E			
	leaves are tough, spiky and indigestible		В			
	shallow root system		D			
	grow far apart		G			
	live for one season, produce seeds, then o	die	Α			
True or False						
	during their first dry season, the leaves	True – this reduces				
	curl inwards creating a hollow tube	water loss as water				
	shape	inside the tube t	akes			
		longer to evapor	rate			
	each shoot has its own water supply	True				
	leaves are very bendy in the wind	False - they are	covered			
		in silica to prevent				
	bending in the wind					
	termites are the only animal that eat it	True				
	their roots hold the soil/sand together	True				
	and prevent it from blowing around					

Short and sweet					
	a long tap root	Yes – tap root is able to reach			
		water deep in the soil			
	seeds have a protective coating	Yes - retain moisture and make			
		them tough to eat			
	seeds can grow after years of dry	Yes – long after the original plant			
	conditions	has died, once conditions are			
		good, the seeds are able to start			
		growing a new plant thus			
	red colour of flower	continuing the species No – not all Sturt's Desert Peas are			
	l red colour of flower	red			
	leaflets (small leaves)	Yes - lose less moisture by having			
	leanets (smail leaves)	a smaller surface area			
	downy hairs on stem	Yes - hairs protect plant from frost,			
		wind and sun			
	named after explorer Captain Charles No				
	Sturt who found them in 1844				
Match the adaptation type	burrows underground to avoid extreme heat long front claws for digging burrows easier licks forearms to cool themself by evaporation dry poo reduces water loss large ears to assist heat loss structure adaptation	light coloured skin/fur reduces heat absorbed gets enough water from the food they eat active at night to avoid extreme heat aestivates – dormant			



Finding frogs	Desert Spadefoot Large frog with very short legs. Can be dull orange, olive-grey or brown, with raised black dots. Shelter in burrows over one metre deep during the day but are active on the surface at night.			
	Giant Frog Large frog with a triangular head and long limbs. Adults tend to be brown with stripes on each side of their head. Can be confused with the invasive Cane Toad. Burrow about 10cm into the ground for shelter during the day, active on the surface at night.			
	Western Water-holding Frog Large frog with a flattened appearance. Can be pale grey to dark brown. Likely to be a predator to other frog species. Can 'cocoon' itself by shedding its skin while in its burrow and then aestivate until rain comes.			
Meaning of aestivate	A state of dormancy, similar to hibernation, but takes place in summer rather than winter.			
Xerocole	xēros means 'dry'			
	col(ere) means 'to inhabit'			

Part 2: Night and day

Activity title	Answers						
When is bedtime?							
	Nocturnal	Active by night					
	Diurnal	Active by day					
	Crepuscular	Active at dawn and dusk					
	Black Kite – diurnal Red Kangaroo – crepuscular Bilby – nocturnal						
Nature's balancing act	,	nsectivore herbivore omnivore carnivore Red Kangaroo Red Kangaroo Bilby Wedge-tailed Eagle					
Underground mansions	Possible answers desert frog speci	s: Bilby, Spinifex Hopping Mouse, Thorny Devil, Perentie, various es					
Mighty Mice							

Activity title	Answers						
Night vision							
	Hearing		ents of predators and prey, even if				
	- "	they can't see the					
	Smell	Can sniff out food	-				
	Touch	Can feel for thing:	2				
	Woonlight	Moonlight Provides a light source to assist with vision.					
Remote reptiles	might use to k move to change to pant and burrow to move so lick them	shady areas their scales to a lid/or sweat underground, or unterground they have less because to cool by	use other animals' burrows oody parts touching the hot ground				
Who's who? What the devil?!	Woma Python Smooth Knob-ta Desert Death Ad Perentie						
Time the dethi.	Adaptation		How it helps				
	Has a syster between its	n of grooves spikes that allow er on its back into	Allows it to drink more water as it can drink any water droplets that land on its back.				
	Can tuck its head down and expose a 'false head', a spiky lump of soft tissue between its shoulders Protects its head by confusing predators into biting the false head.						
	Covered in spikes Discourages predators from trying to eat it as it is painful to bite and difficult to swallow. The texture assists camouflage so it can hide better.						
	Can change its shade to a lighter/darker colour absorption. Once it has warmed up enough it can reduce heat absorption by turning a lighter shade.						
			1				

Activity title	Answers				
Desert icon	Bilbies are well adapted to life in the desert. Read the statements below and decide whether they are true or false. True Fal				
	1. Store water in their tail		✓		
	2. Large ears assist cooling	✓			
	3. Claws for digging burrows	✓			
	 Backwards facing pouch to allow mothers to dig with a baby in the pouch 	1			
	5. Change colour to camouflage		✓		

Part 3: Challenges and champions

PAGE 1

Activity title	Answers
Rocky future	Possible answers: A national recovery plan has been produced for five species of rock wallaby. Recommended actions are: control feral predators, manage feral herbivores, manage habitat, captive breeding programs to supplement existing populations or establish new ones, survey and monitor populations. There are also many organisations working to help, for example Australian
	Wildlife Conservancy has predator-free fenced areas, and the Department of Biodiversity, Conservation and Attractions has a Rock Wallaby Recovery Team.

Activity title	Answers
Feasting ferals	They will eat all except for the plants (Spinifex and Hairy Mulla Mulla).
Hard to find	The spots break up their outline in the moonlight so it is harder for predators to notice them as they move at night.
Feral cat research	Student's own response.
Remote cat removal	Explore: Search "Kiwirrkurra community" on Google maps.
	Evaluate: By studying the stomach contents, ecologists can see what that feral cat had recently eaten. By recording the stomach contents of all cats caught in the area, they can collect data on which native species are being preyed on by feral cats.
Feral proof fencing	 Some possible answers: Access to a reliable water source within the fenced area (while also ensuring there are other reliable water sources close by outside the fence for other wildlife). Make sure the right plant species grow there to be a food source for the animals inside the fence. Choose an area that is not regularly frequented by large herbivores who could easily damage the fence. Regularly check the fence structure and make repairs as needed to keep feral predators out. Consider how to prevent burrowing under the fence. Ensure both males and females of each species are brought inside the fence to allow breeding. Ensure the size of the fenced area is suitable for the species that will be inside.

Activity title		Answers										
Fighting fire with fire	condition	An intentional and controlled fire which is applied under specific environmental conditions to a predetermined area. The time, intensity, and rate of spread is planned and controlled to achieve a desired outcome.										
Burning biodiversity	Central R Chuditch Night Par Mala Bilby											
Malleefowl	All are tr	ue.										
Non-native invaders	A	G	т	F	G		Р		Α	R	E	F
	N											
	G B R D Q G D D F D R A											
	Y	Y L I S D S K A N S H										
		G	R	D	E	1	E	0	I	Z	Х	K
	K	A	С	K	L	R		X	М	В	R	Н
	N	D	R	D	A	1	G	W	I	Е	W	U
	O Z P I N J B R R A											
	D M B C A M E L E W M											
	С	C A B R P D A H P Q F V										
		A	A	Q	Q	Υ	Α	Т	X	С	Р	E
	R	K	S	Z	F	W	S	В	W	Т	С	F

Activity title	Answers							
Camel calamity	Foot	Buckley for making						
	A complete desire to 1501 of	Problem for natives A group of camels can literally drink a						
	A camel can drink up to 150L of water at one time. Although they can	small waterhole dry, removing a water						
	last long periods of time without	source natives could have used.						
	water they will drink if it is available.	Source natives could have used.						
	Camels are unhygienic at waterholes,	The waterhole becomes unsuitable for						
	fouling the water with their waste	native animals to use.						
	and trampling.							
	Camels will eat almost any	Being willing and able to eat any plant						
	vegetation. Their thick lips mean	means camels can easily survive in any						
	they can eat prickly plants that other	area. They will compete with natives						
	animals might avoid and will eat all	for plant food sources and also reduce						
	of their favourite plants until there	available habitat for natives who						
	are none left.	shelter in plants.						
		They eat plants which are usually safe						
		from predators due to protection of						
		prickles.						
		They have caused local extinction of						
		plant species, meaning that type of						
		plant will not naturally grow in that						
		area again. Any animals who used						
		those plants as a food source or for						
		shelter are also impacted.						
	They are large animals with big feet	They trample on plants and cause						
	and walk wherever they like.	erosion which effects the ability of						
		plants to grow.						
	In Australia, camels have no natural	Without human intervention their						
	predators. Most die of old age	numbers will not reduce.						
	(around 50 years) or after extended							
	periods of drought. They often live in	Moving in large groups also means that						
	groups of up to 30 individuals.	their impact is increased as groups will						
		drink more water, eat more plants and						
		cause more erosion than an individual						
		camel.						
		1						
Plant pests	When introduced plants compete with native plants for areas to grow often this							
	leads to native plants dying off. If nothing is done to stop the spread of invasive							
	and could face extinction.	plants, more and more native plants will be unable to grow in their usual habitat and could face extinction.						
Breeding bilbies	It takes time and money to research wh	at different species needs are in order to						
	successfully breed in captivity. Not all at							
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