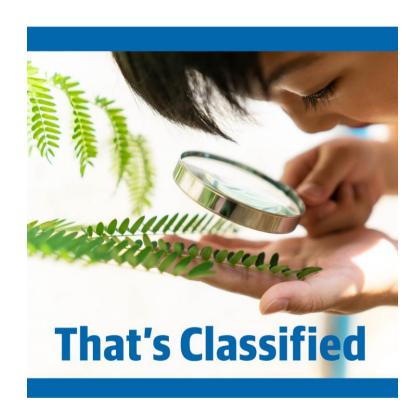


# **ANSWER GUIDE:** That's classified



Term 3, 2020

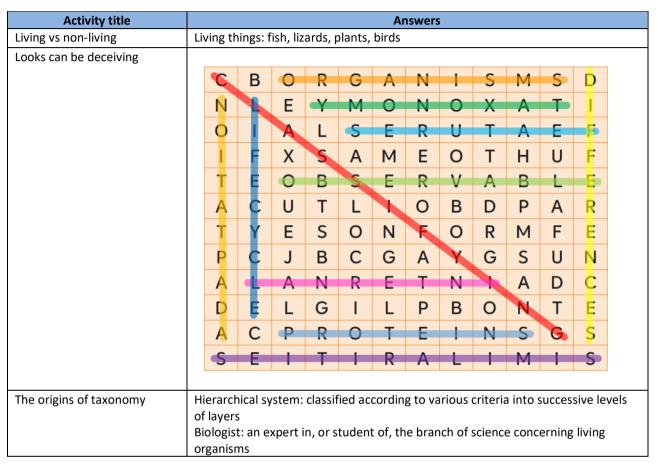
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# Part 1: Understanding taxonomy

#### PAGE 1

Activity title	Answers	
Same but different	Possible answers include: colour, body shape, shell/no shell, number of legs,	
	tail/no tail, antennae/no antennae, wings/no wings	

#### PAGE 2



Activity title	Answers
What's in a name?	Mottlecah (Eucalyptus macrocarpa) — Illyarrie (Eucalyptus erythrocorys) Red-flowering gum (Corymbia ficifolia) — Marri (Corymbia calophylla)
Flowering plant's lifecycle	G B F A A

### **PAGE 3 continued**

Genus to species	Banksia littoralis only:	
	<ul> <li>Leaves have soft, irregular teeth</li> </ul>	
	<ul> <li>Leaves are shorter (up to 20cm)</li> </ul>	
	<ul> <li>Shorter and wider flower spike (up to 20cm long, 7cm wide)</li> </ul>	
	Fruiting cones look hard and woody because they rapidly shed dead	
	flowers so look different	
	Flowers late summer to winter	
	Grows only in winter-wet swampy areas	
	, , , , , , , , , , , , , , , , , , ,	
	Banksia attenuata only:	
	Leaves have fine serrated edges	
	<ul> <li>Leaves are longer (up to 27cm)</li> </ul>	
	<ul> <li>Longer and narrower flower spike (up to 25cm long, 5cm wide)</li> </ul>	
	<ul> <li>Fruiting cones look fuzzy because they keep remains of dead flowers</li> </ul>	
	which look like old netting between the fruits	
	Flowers from spring to summer	
	Grows in sandy soils	
	Both:	
	Leaves are leathery	
	Flowers are yellow	
	<ul> <li>Fruiting cones remain on the tree for several years</li> </ul>	
	Small tree, up to 10m	
	Rough, crumbly bark	
	Note: In the images used, B. littoralis appears longer than B. attenuate. This is	
	good example of why classification goes deeper than the appearance of one	
	example.	
Namesake	Which eucalyptus tree was named after Joseph Banks?	
	B) Tenterfield woollybutt ( <i>Eucalyptus banksii</i> )	

Activity title	Answers				
No bones, no worries	Hydrostatic skeleton: bodies have cavities filled with fluid surrounding the				
	muscles				
	Exoskeleton: rigid outer casing that covers the body protecting the organs; has				
	joints to help the animal move				
Mighty macroinvertebrates	Inverts key suggestion: https://www.uwa.edu.au/science/-				
<i>5</i> ,	/media/Faculties/Science/Docs/Aquatic-macroinvertebrate-Identification-				
	key2.pdf				
Go with the flow	No Does it have a shell?  Yes No Snail  Does it have exactly 6 legs?  Yes No Snail  Does it have exactly 6 legs?  Yes No Snail  Does it have exactly 6 legs?  Yes No Snail  Does it have more than 8 legs?  Yes No Sentipede Spider				

# Part 2: Warm wonders

### PAGE 1

Activity title	Answers	
Hot or cold?	1. B, 2. A, 3. D, 4. E, 5. C	

Activity title			Answers		
Colourful creatures	They change colour so females know they are males looking to breed, but then they change back so that they can camouflage to avoid predators  If people see the males when they are colourful not knowing they can change they might think they are a different species to the females.				
Focus on feet	Common name	Eastern osprey	Australian Shelduck	Great crested grebe	Red-tailed black cockatoo
	Sketch of foot shape	1			
	How this foot shape helps	Strong foot with long talons helps to catch and carry prey. Can move one front talon to have two rear facing and two forward to help pick up fish.	Assists swimming as feet are like paddles, not suited for walking so ducks will usually swim or fly for longer distances.	Separated toes make running easy, webbing assists walking in boggy areas, folding toes together creates a paddle to assist swimming.	Two forward facing and two rear facing toes assists climbing and grasping.
Beak business		Pointed beak used li spear to catch fis spear to catch fis set into cracks in bar catch insects  Wide-based bill swe through water stirrin aquatic insects, crusta fish and mollusc:  Long, slender, down ci bill reaches inside flow get nectar  Strong beak breaks chard fruits or seed cor get to seeds inside	ke a h ak can rk to P	Western Spineb Aconthorhynchu Supercifiosus Carnaby's Cockat Coluptorhynchu Intirest ris Wedge-tailed Eag Aquilo audox Australasian Dari Anhingor novoehollondiou Varied sittella Daphoenosisto chripoptera	oo s

Activity title	Answers		
Mammal myth or fact?	1 are the only animals with hair or fur 2 all live on land 3 humans are classified in this group 4 all give birth to live young 5 have large brains for their size	True  ✓	False  V
Mammal lifecycles	Find out how these mammals reproduce them tick to show what type they are.  Black-fining flock Wallary Petropole Journal		

Activity title	Answers			
Marine mammals				
	Scientific name	Dugong dugon		
	Diet	Herbivore – sea grasses		
	<b>Size</b> 2.5-3m, 300kg			
	Lifespan 70 years			
	<b>Reproduction</b> Have one calf after a 12 month pregnancy. Give birth			
	underwater and guide newborn to the surface to breathe			
	Location of fur Whiskers on snout			
	Interesting fact	act Student's own choice		
That's batty	They all have a similar shape for the arms and wrist. Humans and bats have five fingers			

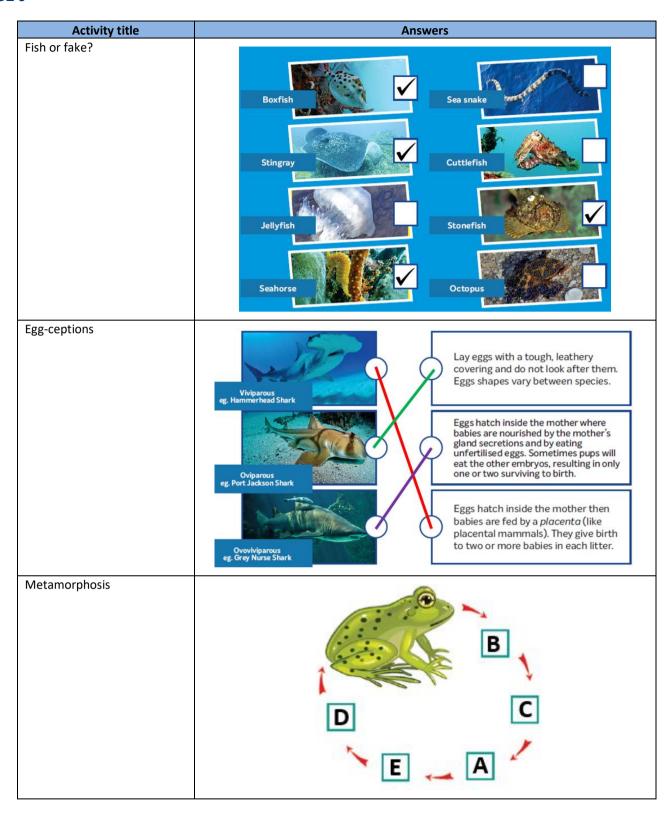
# **Part 3: Cool creatures**

#### PAGE 1

Activity title	Answers		
Changing temperature		warm up	cool down
	move to shady areas		
	change their scales to a darker colour	$\checkmark$	
	burrow underground or use other animals' burrows	$\checkmark$	$\checkmark$
	move so they have less body parts touching hot ground		abla
	go into water		$\checkmark$
	lay on a hot rock	$\square$	

Activity title	Answers		
Scaly skin	C P R O T E C T I V E R K B E M Q S S N S L O E P S U D E B P E I C R T I R K S V J L T O A F A A H E R O A P D T Z N G O L A W C E I S U S E T U C S R N O Z L D R H A X O E C C G K Y U S O I K N O I T A T P A D A		
Sss-snakes	Venomous: bite their prey, injecting venom (poison) into it to prevent prey moving and cause death. Snakes are usually able to control how much venom they release so as not to waste it by using more than needed.  Constrictors: bite their prey to hold it, then wrap their body around prey slowly squeezing it until it can no longer breathe. These snakes do not produce venom.		
Snakes v lizards	Some possible answers Similarities		
Native or not?			

#### PAGE 3



Activity title	Answers
DNA sequencing	В