

8th Grade

Life Science Ch. 4 Lesson 2

Page	Question	Answer(s)	Links/Sources
130	What do you see?	Answers may vary.	
130	Can you see anything else besides bark?	Answers may vary.	
130	Have you found it yet?	Answers may vary.	
130	How does this adaptation help the individual animal?	It helps it hide from predators.	
130	What animals do you think might be around you on the playground that you can't see?	Answers may vary.	
130	What are some physical adaptations that you have?	Answers may vary. Response to extreme environment and high attitudes.	https://www.britannica.com/science/climatic-adaptation
130	How do they help you live in your environment?	Answers may vary. They help humans survive and thrive in various climates.	https://www.britannica.com/science/climatic-adaptation
131	How does this kind of adaptation help an animal?	It helps it hide from predators and from its prey so it can catch it.	
131	How do you think camouflage is evidence of God's careful Design plan?	Answers may vary. He gave animals survival mechanisms so they can survive and the ecosystem may continue.	
131	What are some brightly colored organisms that you avoid?	Answers may vary. Coral snakes and bees.	
133	Have you ever quickly pulled your finger from a hot object without thinking about it?	Answers may vary.	
133	Why did that happen?	Answers could include: You felt pain, it was an involuntary reaction.	
133	Did you have to learn to do that?	No.	
133	How does this response help you survive in your environment?	It prevents you from getting hurt.	
133	What innate behaviors were you born with?	Running away from danger, blinking to protect the eye, putting your hand up to protect your face when something is thrown at you.	
133	What types of reflexes do humans exhibit?	Answers may vary. Swatting something that is standing on your skin.	
134	How do you think climate change is affecting the timing of bird migration?	Answers may vary. It can affect their ability to "know" when to migrate. It may confuse them.	
134	What are the advantages and disadvantages to this adaptation?	Answers may vary. They can avoid predators but they need energy for those long range distances.	
134	How do these animals find enough food to survive?	Hibernation.	

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134	What happens to processes in the animal's body during hibernation?	The processes slow down.	
134	How does hibernation solve the problem of not being able to find enough food?	The animal doesn't need to be out hunting, it can just sleep.	
134	What is one way that they might reduce their energy need?	Lowering body temperature.	
134	Why is the body temperature of a dormant animal lower than normal?	Less energy is needed to maintain lower body temperatures.	https://www.britannica.com/science/dormancy/Dormancy-hibernation-and-estivation-in-warm-blooded-vertebrates
134	What conditions might trigger these periods of arousal?	Stimulation.	https://www.britannica.com/science/dormancy/Dormancy-hibernation-and-estivation-in-warm-blooded-vertebrates
134	Why might arousal be important?	To keep the animal safe from harm.	https://www.britannica.com/science/dormancy/Dormancy-hibernation-and-estivation-in-warm-blooded-vertebrates
134	How might this arousal be dangerous?	The animal may fully awaken and use its energy.	https://www.britannica.com/science/dormancy/Dormancy-hibernation-and-estivation-in-warm-blooded-vertebrates
135	Why do you think some behaviors are innate while others are not?	(Answer is in Teacher edition, margin).	
135	How is the success of social insects related to their innate behaviors?	(Answer is in Teacher edition, margin).	
136	However, after a while, you stop noticing smells. Why?	Habituation, the person gets used to it.	
136	What are other examples of this kind of learned behavior?	Answers may vary. Getting used to an alarm sound after a while.	
136	Why is habituation an important behavior adaptation?	So that we can remain responsive to sporadic stimuli, typically of greater significance.	https://www.sciencedirect.com/topics/medicine-and-dentistry/habituation
136	How do horse trainers use operant conditioning?	To get the horse to obey commands and allow riders to ride safely.	
136	What other animals can be trained this way?	Answers may vary. Any domesticated animal like a dog, cat or a bird.	
138	But can these adaptations help animals survive an ecosystem changed by human activity?	Probably not.	
138	Why do you think imprinting is an important adaptation?	They follow parent's behaviors that helped them survive.	