ACTIVITY ANSWER KEY

Chapter 5, Section 3

Check your answers from the Answer Key.
Correct all errors, then complete your next goal.



Lesson 11: *Biology*
Mammals

1. ___ Mrs. Murphy used special milk . . .
   _X_ Both the map and the ferry . . .
   _X_ Although the thunder hole near . . .
   ___ The items stolen from the . . .
2. milk, milk products
3. Lactose, energy
4. lactase, lactose
5. (wording may vary) nourished with mother's milk
6. smarter, healthier, diseases
7. _b_ Human
8. _d_ Seals
9. _a_ Caribou
10. _c_ Horses
11. amino acids
12. eleven
13. nine, essential amino acids
14. (a) True
15. (b) False
16-21. (see page 62 in this activity key)
22. (wording may vary) The female provides milk for her offspring
23. (d) It provides milk for its offspring.
24. two, 5,000
25. (c) 2:5000
26. (d) He agreed to help them if a certain condition was met.
27. "*Milk the cow which is near. Why pursue the one that runs away?*"



Lesson 12: *Biology*
Kangaroos and Other Marsupials

1. (c) By working hard and not arguing or taking offense at the ranger's grouchiness, the boys proved their worth. Now the ranger knew he could trust them.
2. (a) True
3. ___ running out of flashlight batteries
   _X_ safety issues for explorers
   _X_ disruption of small animal life
   ___ getting lost
4. (wording/order may vary) non-native species introduced by humans, loss of habitat, over-hunting by humans, and competition with other species
5. (a) True

6. 7.

Characteristic	Mammals	Marsupial	Comparison	Contrast
gives live birth	x	x	x	
offspring requires further development, in mother's pouch		x		x

8. a marsupial
9. marsupial, Australia
10. _c_ ***kangaroo***
11. _e_ ***rat kangaroo***
12. _b_ ***wallabies***
13. _a_ ***savanna***
14. _d_ ***joey***
15. cats, dogs, humans
16. (b) False
17-21. (see page 62 in this activity key)
22. opossum
23. opossum, South America
24. (any order) plant, animal

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25. playing possum
26. (c) They made their own path because there was no marked trail to follow.
27. (wording may vary) between the oak tree and the ravine wall
28. "*The closer we get to know the creatures around us, the clearer is the understanding we obtain of (Nature's) harmony and system.*"



Lesson 13: *Biology*
Kangaroos and Other Marsupials

1. (b) the boys may have a hard time finding what they are looking for
2. (c) Tom needed energy for the physical exertion and to keep warm
3. caver
4. ___ search for food during the day
   _X_ active at night
   _X_ bats
   ___ cows
   _X_ opossums
5. opposable, prehensile
6. _b_ ***placental***
7. _a_ ***umbilical cord***
8. _c_ ***placenta***
9. _d_ pregnant
10. (b) False
11. HIV
12. (b) nicotine, cocaine, speed, ecstacy and heroine taken by the mother can harm her baby
13. fetus
14. ___ short, blunt snout
    _X_ weighs less than half an ounce
    ___ between three and five feet long
    ___ breaks down food slowly to provide energy
    _X_ faster heart rate than any other creature
    ___ sleeps constantly, rarely hunts
15. (d) velvety soft-brown fur
16. insects
17. (c) echolocation
18. (a) crickets
19. (b) They emit a foul odor.
20. (c) 14 to 18 months
21. (wording may vary) They saw an ancient Viking ship.
22. "*Without observation and experiment, the mind goes astray after phantoms and appearances.*"



Lesson 14: *Biology*
Bats

1. _3_ James Olsen struck the block . . .
   _5_ Bryan and Tom stared up at a . . .
   _2_ The man in the rubber boat . . .
   _4_ Bryan and Tom scrambled into . . .
   _1_ The cave explorer worked around . . .
2. _X_ constantly needs food to maintain . . .
   ___ rests during the day and hunts at . . .
   _X_ powerful, shovel-like front feet
   _X_ weak eyes, detects danger by . . .
   ___ clawless
   _X_ lives in a sub-terranean environment
3. vibrations
4. (a) The upper tunnel is used to search for food, and the lower tunnel is used to escape predators.
5. marmot
6. _X_ vertebrates
   ___ internal temperature depends on . . .
   _X_ females provide milk for the young
   _X_ lungs
   ___ two-chambered heart
   ___ hairless as adults
   _X_ birth live young . . .
7. (c) South American bat
8-13. (see page 62 in this activity key)
14. (c) the human heart beats more in a lifetime than the hearts of other mammals
15. _d_ polar bear
16. _f_ camel
17. _b_ mountain goat
18. _e_ sperm whale

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19. _a_ mole
20. _c_ bat
21. (any order) fruit, meat
22. (c) they see well in dim light
23. (b) False
24. "*Life is as the flash of the firefly in the night, the breath of the buffalo in winter time.*"



Lesson 15: *Biology*
Whales, Rodents and Carnivores

1. (b) fear
2. (c) most of the ship's contents were probably on the cabin cruiser
3. digits
4. (b) broad shoulders
5. _2_ phylum
   _5_ family
   _1_ kingdom
   _7_ species
   _3_ class
   _6_ genus
   _4_ ***order***
6. Stereoscopic vision
7. _X_ live entire lives in water
   ___ give birth on land
   _X_ babies called calves
   ___ breathe through gills
   _X_ blubber preserves body heat
   ___ cold-blooded
8. energy, float
9. (b) their blood is rich in hemoglobin

	Body Part	Function
10.	liver	helps body digest and store nutrients, stores oxygen rich blood
11.	spleen	reserve supply of oxygen rich blood
12.	arteries	limits flow of blood to organs whose functions can be reduced
13.	sense organs	needed for hunting
14.	muscles	needed for swimming

15. baleen
16. rodents
17. _b_ ***incisors***
18. _a_ ***enamel***
19. _c_ ***dentine***
20. Black Death or bubonic plague, fleas
21. (a) squirrels
22. (a) long tails
23. canines
24. (see page 62 in this activity key)
25. (a) True
26. Europe
27. "*Hard-won victories are sweet.*"

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Lesson 11 ("Xs" in parenthesis are optional)

	Characteristic	All Mammals	Most Mammals	Crocodiles	Birds	Whales	Platypuses
16.	provide milk for young	X				(X)	(X)
17.	have four-chambered heart	X		X	X	(X)	(X)
18.	covered with body hair		X				X
19.	warm blooded	X			X	(X)	(X)
20.	give birth to live young		X			X	
21.	protect, train young	X			X	(X)	(X)

Lesson 12

	Characteristic	Wombat	Koala	Tasmanian Wolf	Dingo	Tasmanian Devil
17.	burrows, eat roots	X				
18.	climbs trees, eats eucalyptus leaves		X			
19.	carnivorous, extinct			X		
20.	wild dog of Australia				X	
21.	carnivorous, bad-tempered scavenger					X

Lesson 14

	Mammals	Characteristics
8.	blue whales	largest mammal, mass of 150 tons
9.	shrews	shortest lifespan of any mammal
10.	rabbits	life span of about 15 years
11.	cats	life span of about 20 years
12.	horses	life span of about 40 years
13.	elephants	life span of about 75 years

24. Lesson 15

	Order	Mammals
(a)	primate	monkeys
(b)	rodent	rabbits
(c)	rodent	mice
(d)	carnivore	dogs
(e)	primate	apes
(f)	carnivore	bears
(g)	rodent	rats
(h)	carnivore	minks
(i)	rodent	squirrels
(j)	carnivore	raccoons

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