ACTIVITY ANSWER KEY

Chapter 5, Section 1

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

Lesson 1: *Biology*
Fish

1. Lemon Stewart
2. (b) impatient and arrogant
3. (c) did not trust the boys
4. vertebrates
5. (b)
6. Fish
   Amphibians
   Reptiles
   Mammals
   Birds
7. vertebra
8. vertebrae
9. spinal column
10. spinal cord
11. skull
12. brain
13. nerves
14. (wording may vary) a vertebrate can grow larger than an invertebrate
15. (a) vertebrates
16. b vertebrae
17. c skull
18. a rib cage
19. Food, Energy, Clothing, Decorations, Pets, Hunters, and Messengers
20. (b) False
21. tail fin, other fins
22. (wording may vary) all vertebrates have four-chambered hearts
23. the gills
24. mouth, gills
25. (any order) sight, hearing, smell, touch and taste
26. (c) lateral line
27. (d) air bladder
28. ___ they have inner ears instead of . . .
    X they have no air bladders
    ___ they make grinding-teeth sounds
    X their skeletons are made of cartilage
29. (b) A person who is trying hard to do . . .
30. *"The most gracious way to disagree with an angry person is to remain silent."*

Lesson 2: *Biology*
Fish and Amphibians

1. (d) sour
2. black
3. sturgeon, Russia
4. 4 male fertilizes eggs
   1 eggs develop in female
   3 female lays eggs
   5 eggs develop further and hatch
   2 female makes "nest" in stream bottom
5. (d) definition 4
6. (b) False
7. spawning
8. (c) They return to the ocean after spawning
9. Freshwater, saltwater
10. (c) gills and kidneys
11. Freshwater, saltwater
12. (b) False
13-17. (see page 112 in this answer key)
18. brackish
19. amphibians, life on both sides
20. (d) none of these
21. (c) much moisture

22. _X_ a tadpole becomes a frog
    ___ a fry becomes a fish
    _X_ a caterpillar becomes a butterfly
    ___ freshwater fish adapt to saltwater and visa-versa
23. (d) mouth
24. (b) False
25. "*The frog does not drink up the pond in which he lives.*"



Lesson 3: *Biology*
Amphibians and Climate Zones

1. _X_ The boys accidentally left the . . .
   _X_ The boys purposely left the . . .
   _X_ The ranger stole the goods, . . .
   ___ An unknown thief broke in and . . .
2. (d) a thing being strongly or clearly evident, as in a pronounced difference between two things
3. (wording may vary) the tilt of the Earth or its axis
4. (b) summer
5. North Pole
6. Arctic Frigid Zone
7. Antarctic Frigid Zone
8. South Pole
9. Equator
10. Tropics
11. Tropic of Cancer
12. Tropic of Capricorn
13. North Temperate Zone
14. South Temperate Zone
15. the Frigid Zones

16-23. (see page 112 in this answer key)

24. (wording may vary) They have to blink their eyes.
25. Salamanders, patterns, colors
26. moist, claws
27. _b_ newt
28. _c_ mud puppies
29. _a_ hellbender
30. ___ their internal design and value . . .
    _X_ water pollution, acid rain
    _X_ loss of wetlands
    _X_ increased disease, infection, parasites
31. six
32. "*Truth is the best response to accusations or questions.*"



Lesson 4: *Biology*
Reptiles

1. an electric generator
2. cold blooded
3. (c) depends upon external conditions to control its body temperature
4. (d) all of these
5. (d) none of these
6. _c_ ***hibernation***
7. _a_ ***torpor***
8. _b_ ***aquatic***
9. (d) dry land

10-11. (see page 112 in this answer key)

12. to keep the eggs from drying out (or to keep them moist)
13. (d) tiny holes
14. after, before
15. Female crocodiles remain near the nests and chase off animals that might eat the eggs.
16. (wording may vary) the young are designed to fend for themselves from the start
17. (a) True
18. (c) the 1800s
19. (c) inventing a new word or expression
20. (b) False
21. (b) paleobotany to pallid
22. Walter Alvarez, meteorite, Italy
23. (order/wording may vary) disease, lack of food, genetic problems, over-hunting, or destruction of habitat/environment
24. fossils, rapidly, mineral-rich
25. flooding, burial

26. (a) True
27. ice age
28. (a) True
29. belief systems, evidence
30. (order/wording may vary) Ice Age, meteorite collision with Earth, dinosaurs evolved into birds, catastrophic worldwide flood
31. James Olsen
32. "*The present is a key to the past.*"

Lesson 5: *Paleotology*



The Scientific Method, Frauds and Fakes

1. (c) an odd manner of walking
2. (b) pseudo science
3. William Gilbert, compass
4. (a) True
5. (a) seek truth
6. (d) not proclaiming mere theories as fact
7. (a) True
8. Piltdown Man, missing link
9. (b) False
10. (b) a hoax
11. b skull
12. c jaw
13. d bones
14. a teeth
15. the man who never was
16. Archaeoraptor, dinosaurs, birds
17. fraud, $80,000
18. (b) scientists who fail to use the scientific method easily deceive themselves and others
19. (b) False
20. "*Truth will ultimately prevail where there are plans undertaken to bring it to light."*

Ask for your QUIZ over Section 1.
Reminder: Students who score 85% or higher on the three section quizzes may be exempt from the chapter test!

Lesson 2

	Characteristic	Salmon	N. A. Eel	Comparison	Contrast
13.	migrates to spawn	X	X	X	
14.	lives in saltwater, spawns in freshwater	X			X
15.	lives in freshwater, spawns in saltwater		X		X
16.	swims upstream to spawn (**review** question)	X			X
17.	swims downstream to spawn (**inference** question)		X		X

Lesson 3

	Characteristics	Frogs	Toads	Comparison	Contrast
16.	Classification	amphibian	amphibian	X	
17.	Early life	water	water	X	
18.	Skin	smooth, moist	dry, worty		X
19.	Hind legs	longer	shorter		X
20.	Climate of adult habitation	moist, humid	dry		X
21.	Teeth	in upper jaw	none		X
22.	Coloration	protective	protective	X	
23.	Tongue	long, sticky, curled up	long, sticky, curled up	X	

Lesson 4

	Characteristic	Reptiles	Fish/Amphibians
10.	texture	tough or hard	soft
11.	covering	skin or shell	no shell