ACTIVITY ANSWER KEY

Chapter 2, Section 2

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

Lesson 6: Physics

Darkness

1. (a) outside on the deck
2. system
3. rotation, revolves
4. spinning (or turning in a circle)
5. (d) axis
6. axis, revolves
7. (b) Copernicus developed a theory that the Sun was the center of the universe and that Earth and other planets revolved around the Sun. Scientific opinion at that time was that Earth was the center of the universe and that the Sun, planets and stars revolved around the Earth.
8. (b) False
9. day, 24
10. Daytime, nighttime
11. dawn, twilight, dusk
12. Francis Scott Key
13. The Star Spangled Banner
14. (d) all of these
15. 12, 1/12
16. seven, nine
17. (c) extremely tired
18. *"The night is darkest just before dawn."*

Lesson 7: Biology

Night Life

1. (a) two men visited the Jackson's property
2. (b) active during the night
3. salamander
4. lizard
5. salamander
6. lizard
7. (a) salamander
8. (a) True
9. eyes
10. ears
11. feathers
12. talons
13. beak
14. (a) carnivores
15. (f) only c and d
16. heads, barbels, mouth
17. (wording may vary) ponds in which catfish are bred and raised for the purpose of selling to suppliers of restaurants
18. (b) False
19. mammals
20. echolocation
21. (d) A bat sends out a pulse of sound toward the intended prey. The sound bounces off the prey and back to the bat. When the bat hears the echo, the bat knows exactly where the prey is located.
22. (c) omnivores
23. Caves, abandoned buildings
24. *"Variety is the mother of enjoyment."*

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Lesson* 8: *Physics
Motors

1. (c) footprints at the back of the cabin
2. magnetism
3. (any order) south, north
4. attract
5. repel
6. (d) above and below the armature
7. (a) connected to the armature
8. (a) They turn on the electromagnets.
9. (c) on the armature
10. (a) True
11. brushes, electricity
12. (b) armature
13. _6_ The rod turns the gears of any . . . .
    _3_ The like poles in the . . . .
    _2_ Brushes touch electrical wires . . . .
    _5_ The spinning armature turns . . . .
    _1_ Electricity is sent to the . . . .
    _4_ The armature spins.
14. (c) combustion
15. (b) An actual explosion takes place.
16. _4_ Sparks from the spark plug . . . .
    _5_ Combustion occurs.
    _1_ Gasoline and oxygen are mixed.
    _7_ The driveshaft is turned.
    _2_ Fuel is pumped into the . . . .
    _3_ The piston compresses and . . . .
    _6_ An explosion pushes down . . . .
17. (c) an internal combustion engine
18. (b) oil
19. (b) Gasoline (fuel) will not flow to the motor.
20. (d) garage
21. *"Successful people are self-starters who keep moving."*



Lesson* 9: *Physics
Moonlight

1. (c) both a and b
2. (b) False
3. (a) True
4. (a) True
5. phases
6. (b) orbit
7. half
8. sunlight
9. (d) as invisible
10. (c) as a half-circle
11. (b) as a circle
12. (a) more visible
13. (b) less visible
14. _X_ There are four . . .
    ___ There are eight . . .
    _X_ Each main phase . . .
    _X_ "Waxing" and "waning . . ."
15. new moon
16. waxing crescent
17. first quarter
18. waxing gibbous
19. full moon
20. waning gibbous
21. third quarter
22. waning crescent
23. waxing crescent, waning crescent
24. first quarter, third quarter
25. waxing gibbous, waning gibbous
26. a full moon
27. *"Truthfulness is a light that helps you overcome a dark past."*



Lesson* 10: *Biology
Legs

1. black widow spider
2. harmful (or poisonous), fatal
3. Yes; (wording may vary) Spiders eat flies, mosquitoes and other types of insects that destroy crops.
4. arthropods
5. arachnids
6. (a) an arthropod
7. (b) False
8. (c) They both belong to the arthropod classification.
9. cephalothorax

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10. abdomen
11. legs
12. spinneret
13. head
14. antennae
15. thorax
16. legs
17. abdomen
18. wings
19. _d_ ***spinneret***
20. _c_ silk from spiders
21. _a_ black widow spiders
22. _b_ black widow's web
23. hourglass, abdomen
24. less likely
25. more likely
26. less likely
27. more likely
28. more likely
29. less likely
30. less likely
31. more likely
32. (a) After mating, the black widow kills her mate and eats him for nourishment.
33. violin, cephalothorax
34. medical
35. papain, (or papaya)
36. protein, neutralize (or digest or dissolve)
37. (a) a pair of legs wearing boots you recognized
38. *"Treat the unknown with caution."*

Ask for your QUIZ over Section 2.
Reminder: Students who score 85% or higher on the three section quizzes may be exempt from the chapter test!

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