ACTIVITY ANSWER KEY

Chapter 2, Section 3

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



Lesson 11: *Meteorology*

Seasons

1. (c) Mr. Russell
2. (c) summer; winter
3. (b) the angle of the Sun's rays hitting the Earth
4. (a) True
5. (a) True
6. (b) False
7. (b) direct sunlight
8. (any order) the angle of sunrays, the tilt of the Earth, the motion of the Earth
9. (d) equator
10. (a) summer
11. summer, longest
12. (c) winter; summer
13. winter, shortest
14. (c) The spring equinox occurs on or about March 21 when the Sun's rays shine directly on the equator.
15. spring, fall
16. Northern Hemisphere, Southern Hemisphere
17. September 21, fall, Southern Hemisphere
18. December 21, summer
19. (a) True
20. (answer must be in this order) spring, summer, fall
21. (c) stolen gold coins
22. *"Truth will be revealed in due season."*
23. (any order) North America, Europe, Asia
24. Australia
25. South America, Africa



Lesson 12: *Chemistry*

Golden Touch

1. (a) last name as the man who had visited Mr. Jackson the day before
2. metals
3. malleable, hammered
4. ductile
5. conductors
6. tensile strength
7. aluminum; (any order) soft drink cans, foil wrap, siding for houses
8. gold
9. gold
10. (b) False
11. (b) False
12. (any order) beauty, rarity, resistance to corrosion, ability to be hammered, pressed or pulled into various shapes
13. gold rush
14. (d) panning
15. (c) forms of money
16. (any order) copper, silver, gold
17. (any order) coins, jewelry, cooking utensils, ornamental objects
18. (b) Copper is a good conductor of electricity and is very ductile.
19. (d) Copper is strong and resistant to corrosion.
20. bats
21. *"All that glitters is not gold."*

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Lesson* 13: *Astronomy

Bright Lights

1. (a) the conditions surrounding the sale of the cabin
2. gases
3. sphere (or ball)
4. light
5. (d) spectroscope
6. (b) spectrum
7. (c) hydrogen and helium
8. temperature
9. _c_ red stars
10. _b_ yellow stars
11. _a_ bluish-white stars
12. (c) core
13. size, brightness
14. (b) The magnitude of a star is its brightness and is determined by the star's size, temperature and distance from Earth.
15. actual
16. (a) True
17. _c_ red giant star
18. _b_ white dwarf star
19. _a_ black dwarf star
20. _f_ supernova
21. _d_ neutron star
22. _e_ black hole
23. (any order) fascination, inspiration, assistance
24. (a) groups of stars that resemble historical and mythical figures
25. (c) He described the optical principles of the telescope.
26. (b) Hans Lipperhey
27. (c) It was a refracting telescope that used concave and convex lenses in a tube to bend light rays.
28. (a) The first telescope was used for military purposes of detecting the advancing enemy on a battlefield.
29. (c) Galileo
30. Galileo's; (order/wording may vary) 4 of Jupiter's moons, craters on our moon, rings of Saturn, dark spots on the Sun
31. (d) James Gregory
32. (b) A reflecting telescope brings light rays to a focus by reflecting the light rays off a curved mirror.
33. (a) Isaac Newton
34. bats
35. *"Your life can be like a bright light in a world of darkness."*



Lesson* 14: *Geology

Exploring

1. (b) returned from an all-night fishing adventure
2. _e_ ***spelunker***
3. _a_ ***speleologist***
4. _d_ geologist
5. _b_ archaeologist
6. _c_ biologist
7. (b) geologist
8. (d) biologist
9. (c) archaeologist
10. (a) spelunker
11. New Mexico
12. (d) a 23-25 story building
13. (c) awesome
14. ___ Guano is a sticky substance . . .
    ___ Guano is an instrument . . .
    _X_ Guano is rich in nitrogen . . .
    _X_ Guano is food for beetles . . .
    ___ Guano rich in vitamin D . . .
15. _3_ Carbon dioxide mixes . . .
    _1_ Rainwater falls . . .
    _5_ Water continues to . . .
    _2_ Rain absorbs carbon . . .
    _4_ Carbonic acid tunnels . . .
16. longest, the world
17. _c_ stalactite
18. _d_ stalagmite

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19. _e_ column
20. _a_ lava cave
21. _b_ sea cave
22. (d) the hiding place of the stolen gold
23. *"You will never find treasure . . . unless you hunt for it."*



Lesson* 15: *Meteorology

The Right Stuff

1. (c) wooden pole
2. (a) notified law enforcement authorities
3. (b) hot and humid
4. (a) The lighter particles become positively charged and drift to the top of the cloud. The heavier, negatively charged particles fall to the bottom of the cloud.
5. (a) attracts the charges from the cloud
6. (a) True
7. 100
8. 40%, forest fires
9. (a) pushes away from the bolt, creating a vacuum
10. (b) the air rushes back together
11. (c) the robbers
12. *"Knowing what is right is good; doing what is right is better."*
13. (b) 2
14. (d) 1:15 p.m.
15. (b) June 5
16. (d) Dallas and Tulsa
17. (b) St. Louis
18. (a) Tulsa
19. (c) Thunderstorms often occur in the afternoon.

Ask for your QUIZ over Section 3.
Reminder: Students who score 85% or higher on the three section quizzes may be exempt from the chapter test!

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