# ACTIVITY ANSWER KEY

## Chapter 12, Section 2

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



### Lesson 6: *Geology*

*Pressure and Density*

1. (c) photographer
2. (a) True
3. hour (or 30 minutes to 90 minutes)
4. eruptions
5. (b) cooler
6. (c) below sea level such as in Death Valley
7. (b) a decrease in pressure changes hot water to steam
8. gases
9. 1.0
10. 1.0
11. (a) buoyancy
12. (b) less than the density of a solid
13. force
14. (wording may vary) her weight rests on a much smaller area
15. The volume of a gas is inversely proportional to the pressure
16. (a) expands
17. contracts
18. (d) lines on weather maps
19. (a) clear
20. *"The man who doesn't read good books has no advantage over the man who can't read them."*



### Lesson 7: *Light & Sound*

*Wave Motion*

1. (b) sound
2. wave
3. (b) longitudinal
4. (c) transverse
5. (b) light
6. electromagnetic
7. (b) light
8. (c) steel
9. (a) a vacuum
10. (b) 24 hours
11. vacuum
12. (a) sound
13. (a) frequency
14. (b) long
15. (c) short
16. (c) **So**und **Na**vigation and **R**anging
17. (b) short
18. reflect (or echo) back
19. (c) sound waves
20. (b) False
21. (b) False
22. (a) ultrasound
23. *"Listen to advice and accept instruction, and in the end you will be wise."*



### Lesson 8: *Light & Sound*

*Light*

1. (c) radiation
2. (b) False
3. spectrum
4. (b) manufacturer and type of product
5. (c) frequency
6. (c) shorter
7. _2_ FM radio and television
8. _7_ gamma rays
9. _4_ infrared
10. _3_ microwaves
11. _1_ radio band
12. _5_ visible light

13. _6_ X-rays
14. electromagnetic
15. (d) sunlight
16. frequency
17. (a) True
18. Doppler
19. The greater the distance of a galaxy, the faster it is receding
20. Edwin Hubble
21. (d) vibrate in only one plane
22. proportions
23. (b) False
24. polarized
25. isomers
26. (b) False
27. *"There is always room at the top."*



**Lesson 9: *Energy***
*Electricity*

1. (d) Thomas Jefferson
2. static
3. (a) negative
4. repel
5. (b) attract
6. (a) Benjamin Franklin
7. (a) insulators
8. (b) conductors
9. (c) light falls on them
10. (b) lost
11. (d) melting them
12. electrostatic
13. (c) light
14. generates
15. (d) photocells
16. (c) coming into greater use
17. expensively
18. (c) 5,500
19. electricity
20. (b) coulomb
21. _b_ *meter*
22. _g_ *second*
23. _d_ *kilogram*
24. _f_ *Kelvin degree*
25. _e_ *mole*
26. _a_ *candela*
27. _c_ *ampere*
28. derived
29. (b) derived
30. *"True science supports absolutes."*



**Lesson 10: *Inventions & Discoveries***
*Series and Parallel Circuits*

1. (a) flat
2. (b) series
3. (c) have the same voltage
4. positive
5. (d) the wires are attached to the same pole
6. (a) increases
7. drop
8. (a) $V_T = V_1 + V_2 + V_3 + V_4$
9. six (6)
10. connected
11. resistance
12. load
13. Current that flows through a conductor is directly proportional to the voltage and inversely proportional to the resistance
14. (d) $I = V/R$
15. (a) send twice as much current through
16. (c) cuts the current flow in half
17. voltage
18. series circuit
19. (d) sum
20. (a) True
21. *"Fear of failure is the father of failure*."

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!