ACTIVITY ANSWER KEY

Chapter 4, Section 2

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



Lesson 6: *Scientific Laws*

Gases and Diffusion

1. "Pressure on a fluid confined in a container acts throughout the fluid in all directions and at right angles to the surfaces it contacts."
2. (a) True
3. "An immersed body is buoyed up by a force equal to the weight of fluid it displaces."
4. liquids, gases
5. (c) equals
6. (b) rise
7. (d) sink
8. (b) equal to
9. (b) False
10. (b) False
11. 1,700 times less
12. (b) grams per liter
13. (a) one thousand
14. easy
15. "The volume of a gas is inversely related to the pressure acting on it."
16. absolute
17. diffusion
18. less
19. square root
20. more
21. (b) False
22. *"Although we are not responsible for all of the things that happen to us, we are responsible for the way we react to them."*



Lesson 7: *Energy*

Fluid Flow

1. (b) False
2. hydrostatics
3. hydrodynamics
4. (b) False
5. (a) opposite
6. friction
7. more
8. more
9. Cohesion
10. (b) less
11. turbulence
12. teardrop
13. laminar
14. (d) increases
15. terminal velocity
16. *"I have always found, when I was worrying, that the best thing to do was to put my mind upon something, work hard and forget what was troubling me."*



Lesson 8: *Scientific Laws*

Bernoulli's Principle

1. "The apparent loss in weight of a body in a fluid is equal to the weight of the fluid the body displaces."
2. balloon
3. (c) hot air
4. (b) False
5. scientist
6. (b) False

7. piloted
8. "The velocity of a fluid and its pressure are inversely related."
9. (b) narrower
10. (d) Bernoulli's Principle
11. air pressure
12. hook, slice
13. (b) Bernoulli's Principle
14. (c) motion
15. (b) pressure
16. (a) laminar
17. (d) Turbulent
18. predict, aircraft
19. *"As I grow older, I pay less attention to what people say. I just watch what they do."*



Lesson 9: *Energy*
Changes of State

1. (c) motion
2. (a) heat energy
3. (b) False
4. (d) *heat capacity*
5. 1.00
6. (b) False
7. (b) specific heat
8. (b) 1.00
9. (b) False
10. Crystalline
11. Amorphous
12. melts
13. (b) False
14. (c) latent heat of fusion
15. 80
16. (d) latent heat of vaporization
17. 540
18. vaporization
19. (b) steam
20. Dry ice
21. (a) fastest
22. (a) True
23. *"Anger is one letter short of danger."*



Lesson 10: *Energy*
Heat

1. (b) lower temperature
2. (b) False
3. total
4. average
5. temperature
6. (a) True
7. (energy out)/(energy in)
8. 12
9. temperature
10. (d) heat engine
11. form
12. (b) low
13. (c) difficult
14. (d) disorganization
15. (b) increasing
16. (a) work must be done
17. (b) False
18. (a) cooler
19. *"Our patience will achieve more than our force."*

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!