ACTIVITY ANSWER KEY

Chapter 1, Section 3

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

Lesson 11: *Compounds*
Learning Chemical Formulas

1. (a) True
2. (a) True
3. destroyed
4. (a) same weight
5. (a) are identical in all aspects
6. atom
7. molecule
8. (b) False
9. (a) True
10. atoms
11. molecules
12. (b) 100,000,000
13. (b) C_2H_4
14. (b) False
15. (c) twice as much hydrogen gas as oxygen gas is produced
16. (a) True
17. (c) Law of Combining Volumes
18. (a) number of particles regardless of the gas
19. (a) is mostly empty space
20. (a) True
21. *"Give yourself a choice and not a change. Give 100% to your school work and 100% to your sport . . . then when the time comes, you are able to make your choice about what you wish to do in life."*

Lesson 12: *Compounds*
Chemical Shorthand

1. (b) False
2. (b) 92
3. (a) figures enclosed in circles
4. (b) False
5. (c) letters
6. (a) True
7. (a) always capitalized
8. (b) False
9. carbon
10. chlorine
11. iron
12. hydrogen
13. mercury
14. nitrogen
15. oxygen
16. phosphorus
17. lead
18. sulfur
19. tin
20. *Al*
21. *Ar*
22. *Be*
23. *B*
24. *Cu*
25. *F*
26. *Au*
27. *He*
28. *Li*
29. *Mg*
30. *Si*
31. *Ag*
32. *Na*

33. (b) False
34. atoms
35. CO_2
36. equation
37. (c) Conservation of Matter
38. (b) False
39. products
40. *"Things turn out best for the people who make the best of the way things turn out."*



Lesson 13: *Elements*
Atomic Weights

1. (b) False
2. (b) isotopes
3. (a) True
4. (b) neutrons
5. electrons
6. protons
7. (a) element
8. (b) isotope of the same element
9. (a) True
10. 1.000
11. (a) True
12. (b) False
13. (b) neutrons
14. (a) atomic mass
15. (b) *carbon 12*
16. (a) True
17. 5
18. 14.001
19. 24.312
20. 35.453
21. 70.906 (35.453 * 2)
22. 95.218 (24.312 + 70.906)
23. *"You cannot tailor make your situations in life, but you can tailor make your attitudes to fit those situations."*



Lesson 14: *Energy*
Heat

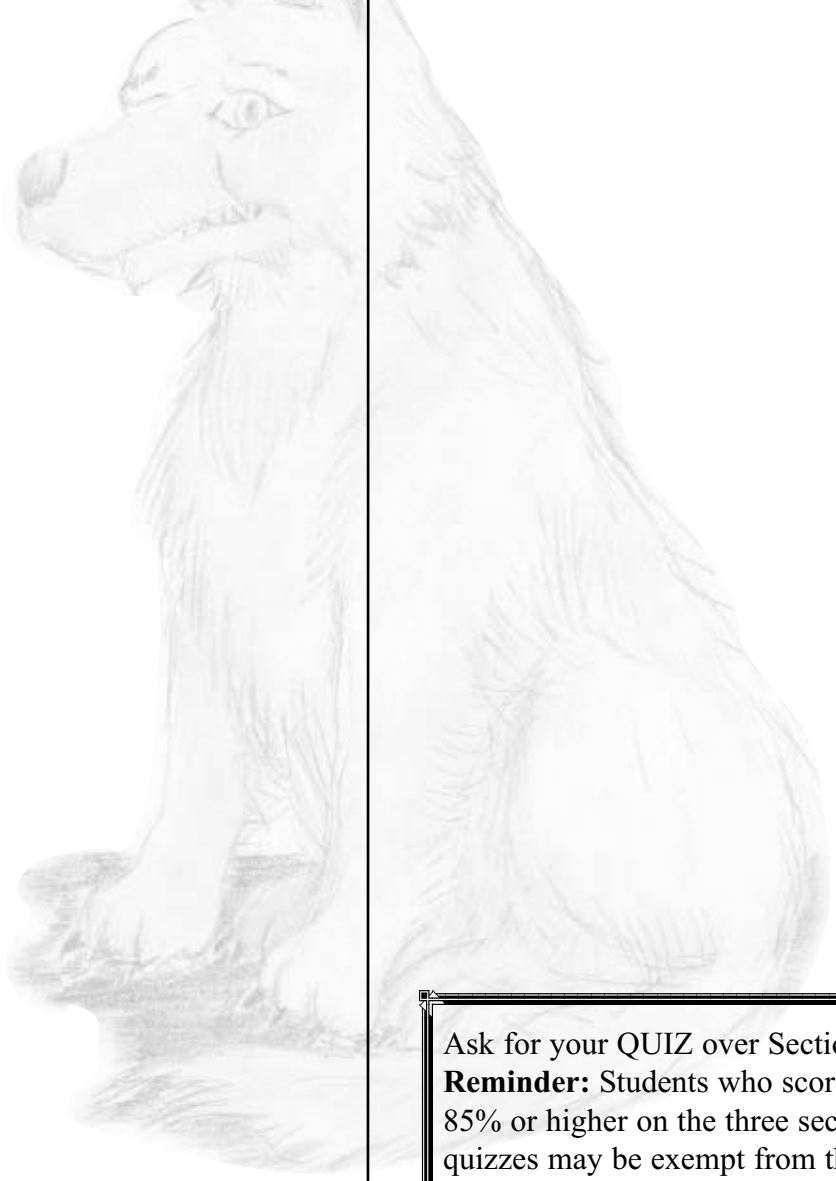
1. (a) True
2. (c) expand
3. (c) the United States
4. (a) True
5. (a) form of energy
6. (b) False
7. (b) more rapidly
8. (a) motion
9. total
10. average
11. (b) False
12. (b) size
13. (a) expand
14. (a) expand
15. (a) expand
16. (a) air
17. (a) True
18. calorie
19. 1,000 or (one thousand)
20. *"There is nothing you can't do, if you set your mind to it. Anything is possible."*



Lesson 15: *Energy*
Measuring Temperature

1. (a) True
2. (a) True
3. (a) air pressure
4. (c) a lower temperature
5. (b) False
6. (a) boiling, 100, freezing, 0
7. (c) "100 steps"
8. (a) decreases
9. (b) False
10. (c) increases
11. 1/273
12. (b) False

13. (b) False
14. (a) helium
15. (a) move more slowly
16. absolute
17. (c) Kelvin
18. (a) True
19. 273
20. *"The heights by great men reached and kept were not attained by sudden flight, but they, while their companions slept, were toiling upward in the night."*



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!