ACTIVITY ANSWER KEY

Chapter 11, Section 3

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

Lesson 11: *Energy*
Energy and Chemical Reactions

1. (a) a chemical reaction
2. reduction
3. aluminum
4. Thermite
5. water
6. (b) releases
7. (b) False
8. oxygen
9. (c) exothermic
10. (c) warm
11. (a) oxidation of iron
12. endothermic
13. (a) cool
14. endothermic
15. (a) lowers
16. (d) when they came in contact with one another
17. (d) nitrogen tetraoxide (NO_4)
18. activation
19. spontaneous
20. (b) False
21. *"The secret of friendship is to build bridges instead of walls."*

Lesson 12: *Energy*
Oxidizers

1. (a) oxidation
2. (c) increases
3. (a) nitrogen
4. (d) pure oxygen
5. (a) directly
6. (d) all of these
7. (a) accept
8. (c) release
9. (c) increases
10. (b) increases
11. (a) faster
12. little
13. (a) True
14. (a) True
15. (b) speeds
16. (a) catalyst
17. (b) enzymes
18. surface area
19. *"The way for a young man to rise is to improve himself in every way he can."*

Lesson 13: *Motion*
Physical Equilibrium

1. (b) False
2. (c) at the ***geometric center*** of the object
3. (a) bottom
4. gravity
5. (b) False
6. center of gravity
7. (d) raised
8. (d) return to its original position
9. (c) stable
10. (b) remain in its new position
11. (a) ball rolling across the floor
12. unstable
13. (c) coin on its edge

14. (a) dynamic
15. difficult
16. *"If God had issued an eleventh commandment, it would be: 'Thou shalt have balance'."*



Lesson 14: *Compounds*
Chemical Equilibrium

1. accelerating
2. (c) stay the same
3. (c) reactant
4. (c) reverse
5. reverse
6. equilibrium
7. (b) False
8. stress
9. (a) endothermic
10. (a) cools
11. (b) reactants
12. (any order) temperature, pressure, concentration
13. (b) False
14. high
15. (b) exceptionally high
16. ammonia
17. (b) catalyst
18. *"Every strike brings me closer to the next home run."*
19. Hydrogen, (hydro-gin), d
20. Helium, (heal 'um), j
21. Barium, (bury 'um), k
22. Boron, (bor-on), c
23. Carbon, (car-bond), b
24. Fluorine, (flooring), f
25. Silicon, (silly con), a
26. Argon, (are gone), i
27. Silver, (Silver), h
28. Copper, (copper), g
29. Nickel, (nickel), e



Lesson 15: *Motion*
Is a Career in Chemistry for You?

1. Forensic
2. (b) forensic chemist
3. carbon
4. (c) more than a hundred people
5. (b) more
6. (a) biochemist
7. (b) False
8. petroleum
9. (d) rocks and minerals
10. organic
11. organic
12. inorganic
13. organic
14. inorganic
15. inorganic
16. inorganic
17. organic
18. organic
19. organic
20. inorganic
21. (c) chemists studying artifacts
22. (c) pursue a broad education
23. increase
24. enjoy
25. *"Character and reputation are easier kept than recovered."*

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!