ACTIVITY ANSWER KEY

Chapter 3, Section 3

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



Lesson 11: *Scientific Laws*

Henry Cavendish and Hydrogen

1. (a) product of their masses
2. (c) mass of the earth
3. (c) density
4. (d) 5.52
5. (d) shape
6. (c) is very weak
7. (a) Henry Cavendish
8. (b) twisted a wire
9. weakest
10. (b) False
11. (b) False
12. (b) False
13. he enjoyed doing them
14. (a) hydrogen
15. hydrogen
16. (d) water
17. hydrocarbon
18. hydrogen
19. (a) ***electrolysis***
20. hydrogen
21. (a) electron
22. (a) True
23. helium
24. *"Defer no time, delays have dangerous ends."*



Lesson 12: *Compounds*

Joseph Priestley and Oxygen

1. (b) minister
2. (d) help the colonists seek relief from taxes
3. (a) True
4. fermentation
5. (a) True
6. carbon dioxide
7. (a) True
8. (c) water-soluble
9. (c) produce heat
10. (d) oxygen
11. (c) burst into flames
12. (a) carbon dioxide
13. (b) oxygen
14. (b) carbon dioxide
15. (b) False
16. (d) the United States
17. (a) True
18. (b) False
19. (c) algae in the ocean
20. slow
21. spontaneous
22. rapid
23. pure
24. (b) nitrogen
25. (a) hydrogen
26. (a) oxygen
27. *"This is an exciting world. It is cram-packed with opportunity. Great moments wait around every corner."*



Lesson 13: *Elements*
Nitrogen

1. (b) False
2. (b) steam engine
3. carbon dioxide or oxygen
4. (b) False
5. different
6. fusion
7. (b) ***vaporization***
8. (c) burn brightly
9. (d) go out
10. (b) nitrogen
11. (d) go out
12. *N*
13. gas
14. convection
15. conduction
16. radiation
17. (a) cold liquids
18. (b) False
19. ammonia
20. NH_3
21. (d) inert
22. (a) increase
23. catalyst
24. (c) ammonia
25. *"Do not settle for second best when a little more effort could make you a first class person."*



Lesson 14: *Compounds*
Nitrogen in Fertilizers and Explosives

1. nitrogen
2. (b) ***trace elements***
3. (d) soil
4. (a) True
5. (c) peanuts
6. (c) both plant and animal life
7. (b) False
8. nitrogen
9. phosphorus
10. KNO_3
11. (a) the Haber Process
12. gases
13. (b) False
14. gunpowder
15. (c) damp
16. smoke
17. (d) in the walls of plant cells
18. (c) explosive
19. (d) explodes too easily
20. (a) hydroxyl group (OH)
21. (a) True
22. (b) liquid
23. (b) False
24. *"There is never a better measure of what a person is in than what he does when he's absolutely free to choose."*



Lesson 15: *Compounds*
Nitrogen in Dynamite and Laughing Gas

1. (b) False
2. force
3. (b) the Nobel family
4. (c) might be useful for construction projects
5. (c) his own factory exploded and killed his brother
6. (c) diatomaceous earth
7. (b) False
8. (a) physics
9. all countries
10. (b) False
11. Nitroglycerin
12. (a) debt
13. N_2O
14. (d) *laughing gas*
15. disabled
16. *"I make the most of all that comes and the least of all that goes."*

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!