ACTIVITY ANSWER KEY

Chapter 11, Section 2

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

Lesson 6: *Compounds*
Silicon

1. oxygen
2. silicon
3. SiO_2
4. four (4)
5. (c) silica
6. (a) silica
7. *SiC*
8. (a) True
9. (d) is transparent to ultraviolet light
10. (d) quartz
11. metals
12. (c) silicates
13. sand (or silica, or quartz, or silicon dioxide)
14. (b) False
15. cobalt
16. (c) float the glass on molten metal
17. (b) False
18. "*Quality is never an accident; it is always the result of intelligent effort.*"

Lesson 7: *Compounds*
Silicon Compounds

1. (a) carbon
2. silicon, oxygen, metals
3. (b) its beauty
4. (a) True
5. (b) False
6. (b) False
7. (d) silicon carbide
8. (c) Fe_2O_3
9. (d) to polish
10. (b) False
11. laser
12. frequency
13. (c) light
14. (a) True
15. (d) oxygen
16. (a) oil
17. (b) False
18. extreme
19. (d) silicones
20. *"Like rough gemstones, we must submit to the shaping, grinding and polishing processes of life to bring forth our true beauty and worth."*

Lesson 8: *Compounds*
Gems

1. (a) more
2. (b) hot water
3. (b) False
4. impure
5. (d) silicate
6. Opal
7. (c) third
8. aluminum oxide
9. (c) ruby
10. beryl
11. emerald
12. (d) using the hardness test
13. different
14. Polarized

15. (a) a synthetic
16. can
17. synthetic
18. rubies
19. ruby rods
20. *"Success comes not by a single great leap, but by persistent small steps toward a goal."*



Lesson 9: *Elements*
Boron and its Family of Elements

1. Effect: Napoleon gave money to Joseph Gay-Lussac to support his chemical researches
2. electrolysis
3. (b) to the left
4. *B*
5. *Al*
6. (c) shiny
7. (c) ductile
8. (b) give up
9. (a) bases with hydroxide
10. (b) readily conduct
11. (a) sodium
12. consistent
13. (b) nonmetal
14. (a) metal
15. (c) silicon
16. bases, acids
17. (a) True
18. (d) type of borosilicate glass
19. *Ga*
20. (d) all of these
21. Mendleev
22. liquid
23. *In*
24. (a) fire sprinkler systems
25 *Tl*
26. (b) rat poison
27. *"Chance favors only the prepared mind."*



Lesson 10: *Elements*
Aluminum

1. (b) False
2. (b) False
3. (a) aluminum
4. (b) False
5. Al_2O_3
6. (c) element
7. (a) element
8. (b) carbon
9. (b) Hans Christian Oersted
10. (b) he discovered many of the important properties of aluminum
11. (a) aluminum
12. cheaper
13. cryolite
14. (b) False
15. aluminum
16. Aluminum
17. (c) iron
18. (a) aluminum
19. copper
20. (b) aluminum
21. (c) reflects infrared heat rays
22. 20 (twenty)
23. (c) purify water
24. *"Development of the periodic table enlightened man's understanding of the design of life as scientists identified and predicted existence of undiscovered elements."*

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!