ACTIVITY ANSWER KEY

Chapter 5, Section 3

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

Lesson 11: *Elements*
Beryllium and Magnesium

1. gemstones
2. beryllium
3. *Be*
4. difficult, time consuming
5. (b) False
6. calcium
7. least
8. X-rays
9. magnesium
10. (b) False
11. (a) True
12. magnesium
13. (d) water
14. magnesium oxide
15. $Mg(OH)_2$
16. (b) base
17. magnesium
18. (d) seawater
19. $MgCl_2$
20. *"Ideas without action are worthless."*

Lesson 12: *Elements*
Magnesium and Calcium

1. Asbestos
2. (b) soft and feels slick
3. (c) magnesium
4. (d) gold is found in the native or free state while calcium is combined with other elements
5. (d) Ca^{++}
6. (c) calcium carbonate
7. (d) limestone
8. $CaCO_3$
9. (a) True
10. be highly polished
11. Cement
12. (a) True
13. (b) cement
14. concrete
15. lime
16. (b) +2
17. +1
18. +2
19. –1
20. –2
21. –1
22. –1
23. –2
24. –2
25. *"The more we learn of science, the more we see that its wonderful mysteries are all explained by a few simple laws so connected together and so dependent upon each other, that we see the same mind animating [giving life to] them all."*

Lesson 13: *Elements*
Calcium, Hard Water and Strontium

1. (b) False
2. plaster of Paris
3. (a) pearls are made by living organisms

4. calcium carbonate
5. (b) False
6. compounds
7. Rainwater
8. acid
9. (d) settles out as a solid
10. Permanent
11. (b) False
12. *Sr*
13. (c) Scotland
14. $SrCO_3$
15. $SrSO_4$
16. (a) calcium
17. underground
18. calcium, barium
19. (d) of its distinctive scarlet color
20. *"Do not let a pat on the back cause your head to swell."*



Lesson 14: *Elements*
Barium and Radium

1. (b) False
2. *Ba*
3. (b) heavy
4. dense
5. *BaO*
6. $BaCO_3$
7. $BaSO_4$
8. *Ra*
9. radioactive
10. (b) False
11. (b) False
12. healthy tissue
13. _d_ most of its uses are because it is heavy
14. _a_ has the lowest atomic weight
15. _e_ found in bones and teeth
16. _b_ symbol is *Mg*
17. _f_ naturally radioactive
18. _c_ symbol is *Sr*
19. protons
20. atomic number
21. 1
22. 92
23. radium
24. whole number
25. (b) False
26. *"The greater the difficulty the more glory in surmounting it. Skillful pilots gain their reputation from storms and tempests."*



Lesson 15: *Scientific Laws*
Periodic Laws

1. (b) False
2. summarized
3. (a) finished at the top of his class
4. 1860s
5. 60
6. hydrogen
7. oxygen
8. lithium
9. beryllium
10. boron
11. carbon
12. nitrogen
13. oxygen
14. fluorine
15. sodium
16. magnesium
17. aluminum
18. silicon
19. phosphorus
20. sulfur
21. chlorine
22. (c) the ***Periodic Law***
23. period
24. family
25. (a) True
26. zero
27. (d) all of the above
28. (b) False
29. *"The most important thing of all, as one approaches the end, is to be able to say, 'I have done what I could.'"*

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!