ACTIVITY ANSWER KEY

Chapter 1, Section 1

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



Lesson 1: *Elements*

Putting Together the Pieces

1. (b) False
2. (b) False
3. (answer may vary) The course will explain what kind of "stuff" scientists think makes up the world.
4. (a) True
5. (c) a prediction of the answer to a scientific question
6. (b) experiments
7. (1) Observation—observe something in the material world
   (2) Question—ask questions about the thing observed
   (3) Hypothesis—predict what the answer will be to the questions
   (4) Method—experiment to see if the hypothesis is correct
   (5) Results—record the results of the experiments
   (6) Conclusion—conclude if the experiments prove the hypothesis to be correct
8. Geology, Physics, Chemistry
9. (a) ball
10. (b) the force used to throw a ball
11. (b) False
12. elements
13. (any five) radios, televisions, computers, cars, jets, CD's, processed food, microwaves, plastics, synthetic clothing
14. You can be like a scientist by becoming more aware of the things and the events around us.
15. *"Most people are drifting along in a childish sleep. To live our dreams, we must wake up."*



Lesson 2: *Elements*

Chemists Who Wanted to Make Gold

1. (b) chemistry
2. (b) *mixture*
3. (c) mixture
4. (c) mixture
5. (b) compound
6. (b) compound
7. (a) True
8. (b) False
9. (b) False
10. (b) *malleable*
11. (a) is too soft and will wear away
12. (a) True
13. (b) 14 carat
14. (c) chemist
15. (a) True
16. *"All who have thought about the art of governing are convinced that the fate of empires depends on the education of youth."*



Lesson 3: *Elements*
The Man Who Defined an Element

1. (c) 600 A.D. and 1400 A.D.
2. (b) after the Middle Ages
3. (b) False
4. (b) Greek natural philosopher
5. element
6. (a) True
7. compound
8. (a) compound
9. (a) True
10. (b) False
11. (b) members of the Royal Society
12. (a) True
13. P
14. (c) the first match
15. (c) make fireworks
16. *"The superior woman stands erect by bending above the fallen. She rises by lifting others."*



Lesson 4: *Elements*
The Money Metals

1. *Au*
2. (a) *metal*
3. malleable
4. ductile
5. (a) True
6. silver
7. (c) more wear resistant
8. 2
9. (b) sulfur
10. silver
11. *Cu*
12. gold
13. (b) electrical applications
14. silver
15. (c) cheaper than silver
16. (c) green
17. (b) False
18. (a) copper
19. *"The will to win, the desire to succeed, the urge to reach your full potential . . . these are the keys that will unlock the door to personal excellence."*



Lesson 5: *Elements*
The Working Metals

1. (a) True
2. (b) iron in combination with other elements
3. *Fe*
4. (a) True
5. (b) False
6. (b) False
7. oxygen
8. (a) ***sulfide***
9. (b) fool's gold
10. (a) True
11. (c) ***reduction***
12. (b) carbon
13. (c) tempered steel
14. (b) concrete
15. (b) False
16. (a) *oxidation*
17. (b) False
18. *Sn*
19. (b) tin
20. (b) False
21. (c) recovery from scrap
22. (a) True
23. *"Earn as much as you can. Save as much as you can. Invest as much as you can. Give as much as you can."*

Ask for your QUIZ over Section 1.
Reminder: Students who score 85% or higher on the three section quizzes may be exempt from the chapter test!