ACTIVITY ANSWER KEY

Chapter 10, Section 1

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

Lesson 1: *Energy*
X-rays

1. (a) from Copernicus to Galileo
2. Copernicus
3. human body
4. Planetary
5. blood, blood
6. Robert Boyle
7. 1895
8. radioactivity
9. Albert Einstein
10. (d) the discovery of X–rays
11. 50
12. (a) electrons
13. X-rays
14. (a) heavy metal and bone
15. (b) False
16. (b) medicine
17. Nobel Prize
18. (c) electrons traveling at high speed are stopped by a metal target
19. (d) X–rays
20. accumulate, harmful, tissue
21. *"In the middle of difficulty lies opportunity."*

Lesson 2: *Energy*
Radioactivity

1. Poland
2. (c) uranium
3. Phosphorescence
4. (b) his father
5. ultraviolet
6. (d) crystals
7. (b) False
8. (d) Marie Curie
9. Nobel Prize
10. Piezoelectricity
11. (c) ***thorium***
12. (a) True
13. (d) her native country of Poland
14. *Po*
15. (a) radioactive
16. (b) lead
17. electricity
18. (c) conduct away accumulations of static electricity
19. polonium
20. *"One never notices what has been done; one can only see what remains to be done."*

Lesson 3: *Energy*
The Electron and Proton

1. (a) negative
2. (d) electron
3. (c) hydrogen atom
4. positive
5. (a) Ernest Rutherford
6. (b) positive
7. (a) True
8. proton
9. charged
10. (c) less
11. (d) helium
12. (d) ***protons***

13. two
14. 92
15. (c) number
16. (c) whole number
17. (b) False
18. eight
19. 16
20. *"Do you love life? Then do not squander time, for that is the stuff life is made of."*



Lesson 4: *Energy*
The Neutron

1. (b) facing into the wind
2. (c) show the direction of the wind
3. cloud chamber
4. negative
5. positive
6. (d) neutral
7. (d) neutron
8. protons
9. (b) False
10. hydrogen
11. (b) number
12. (b) electron
13. protons
14. protons
15. (c) ***nuclear***
16. (b) neutrons
17. (a) atomic mass
18. (a) True
19. (d) 1/10,000
20. *"The best way to get something done is to begin."*



Lesson 5: *Elements*
Isotopes

1. (a) protons
2. (d) protons and neutrons combined
3. *Am*
4. isotopes
5. protons
6. isotopes
7. 10
8. 10
9. (a) neon-20
10. (a) protons
11. (b) it is radioactive and 243 is its most stable isotope
12. (c) the planet Uranus
13. Polonium
14. (b) False
15. radium
16. calorie
17. (a) ***calories***
18. 181
19. radium
20. *"Even if you're on the right track, you'll get run over if you just sit there."*

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!