ACTIVITY ANSWER KEY

Chapter 6, Section 2

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

Lesson 6: *Energy*
Electric Transformers

1. contract
2. Michael Faraday
3. mechanical
4. generator
5. (b) False
6. (a) electricity
7. batteries
8. transformer
9. magnetic
10. (b) False
11. step down transformer
12. electrocution
13. 2,400
14. 750,000
15. current
16. high, low
17. (a) True
18. greater
19. (a) 110 volts
20. *"Life is no brief candle to me. It is a sort of splendid torch which I have got a hold of for the moment, and I want to make it burn as brightly as possible before handling it on to future generations."*

Lesson 7: *Energy*
From Electromagnetism to Light

1. perseverance
2. (b) False
3. (c) Queen Victoria
4. (b) False
5. (b) False
6. electromagnetic
7. electromagnetic
8. smaller
9. (c) ***ultraviolet light***
10. energy
11. speed
12. electromagnetic radiation
13. infrared
14. microwave electromagnetic
15. all
16. White
17. balanced
18. (b) incandescent light bulbs
19. blue tinge
20. *"Genuine humility is a mark of true greatness."*

Lesson 8: *Inventions & Discoveries*
Color Vision

1. Photography
2. (c) white
3. (a) ***additive***
4. (b) False
5. Vision
6. (b) rods

7. (a) three
8. red, green, blue
9. (b) about 50 millionths of a centimeter
10. green
11. (b) False
12. (c) an endless number of
13. (a) ***complementary***
14. bluing
15. subtract
16. (a) artist
17. (b) False
18. (a) black
19. (a) True
20. *"Cherish your visions and your dreams . . . they are the blueprints of your ultimate achievements."*



Lesson 9: *Energy*
Light Traveling in Straight Lines

1. sight, sound, smell, taste, touch
2. optical
3. (b) False
4. mirage
5. (c) ***reflection*** and ***refraction***
6. (a) can expand freely in all directions
7. (a) True
8. "The intensity of light is inversely proportional to the square of the distance from the light source."
9. (b) an automobile headlight with its built in reflector
10. (c) ***transparent***
11. transparent
12. (c) transparent
13. opaque
14. (b) False
15. translucent
16. diffuse
17. (b) False
18. (a) True
19. (b) False
20. *"Seeing is not always believing."*



Lesson 10: *Inventions & Discoveries*
Mirrors and Telescopes

1. (b) reflection
2. "The angle of incidence equals the angle of reflection. The incident ray, the normal ray and the reflected ray all lie in the same plane."
3. (b) virtual
4. convex
5. (d) all of these
6. convex, concave
7. (a) True
8. (a) True
9. (b) concave
10. concave
11. focal point
12. focal length
13. (b) False
14. (b) concave
15. (a) diameter of the main mirror
16. convex
17. Mount Palomar
18. (c) reduce air and light pollution
19. (b) in orbit, 600 miles above the earth
20. *"While reflecting the best light, we see ourselves most clearly."*

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!