ACTIVITY ANSWER KEY

Chapter 9, Section 3

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

Lesson 11: *Inventions & Discoveries*
Radio

1. electricity
2. (b) False
3. amplified
4. (a) True
5. filament
6. plate
7. diode
8. (b) False
9. (c) *rectified*
10. semiconductors
11. (b) False
12. LED
13. (a) True
14. (c) lower
15. (a) longer
16. (d) Hertz
17. (b) Guglielmo Marconi
18. (b) False
19. Modulation
20. *"Teamwork is the fuel that allows ordinary people to produce uncommon results."*

Lesson 12: *Inventions & Discoveries*
Amplifying Electric Signals

1. (a) Morse code
2. sound (or sound waves)
3. (d) the telephone
4. (b) False
5. (d) a small electric current
6. modulate
7. (a) *Amplitude*
8. (a) kiloHertz
9. 1920s
10. (a) True
11. (b) frequency
12. (c) FM
13. (a) AM
14. (b) False
15. triode
16. (b) triode
17. (a) amplify electric currents
18. inventor
19. (a) True
20. *"Motivation is the art of getting people to do what you want them to do because they want to do it."*

Lesson 13: *Inventions & Discoveries*
Semiconductors

1. (d) 1,000,000
2. (a) True
3. (c) vacuum tubes
4. (a) True
5. (c) light
6. (d) frequency
7. (a) True
8. (a) lambda, λ
9. (a) True
10. (d) multiplying
11. (b) False
12. electrons
13. Demodulation

14. (a) True
15. (b) False
16. (a) True
17. SiO_2
18. flint
19. (a) True
20. *"The first requisite for success is the ability to apply your physical and mental energies to one problem incessantly without growing weary."*



Lesson 14: *Inventions & Discoveries*
Transistors

1. 4
2. atoms
3. (b) False
4. 5
5. (b) extra
6. 3
7. (b) too few
8. plate
9. transistor
10. Nobel
11. emitter
12. collector
13. (a) True
14. (b) False
15. microchips
16. (a) True
17. transistors
18. (d) 100 million
19. (a) True
20. *"No act of kindness, no matter how small, is ever wasted."*



Lesson 15: *Inventions & Discoveries*
Series and Parallel Circuits

1. AAA
2. positive
3. series circuit
4. (a) one
5. (d) the batteries were lined up so the positive end of one touches the negative end of the other
6. the current that flows through an electric circuit is directly proportional to the voltage and inversely proportional to the resistance
7. (c) voltage
8. (a) resistance
9. reduces (or decreases)
10. (b) sum
11. series
12. (c) sum
13. (a) True
14. (c) the same along either path
15. parallel
16. electricity
17. (b) does not change the voltage
18. (b) two
19. resistance
20. (a) True
21. *"Ask and it will be given to you; seek and you will find; knock and the door will be opened to you."*

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!