ACTIVITY ANSWER KEY

Chapter 6, Section 1

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



Lesson 1: *Compounds*

Making It Shine

1. (b) ***chromium***
2. Michael Faraday
3. (c) an apprentice for a bookbinder
4. Humphry Davy
5. injured
6. (b) False
7. electrolysis, electrode
8. chemistry
9. "The amount of an element transformed at each electrode is proportional to the amount of electricity."
10. electricity
11. chemical
12. (b) I
13. (d) V
14. (c) VI
15. "Electrolysis releases elements proportional to their equivalent weight."
16. valence
17. 8
18. (a) + 3
19. 9
20. (b) False
21. three
22. electrolysis
23. atomic
24. *"Success is the result of perfection, hard work, learning from failures, loyalty, and persistence."*



Lesson 2: *Inventions & Discoveries*

An Attractive Subject

1. (b) False
2. Thales
3. (c) magnetite
4. lodestone
5. poles
6. (c) iron
7. (c) induced
8. (b) repelled
9. (a) repel; attract
10. (b) down to the earth
11. different
12. declination
13. (a) magnet
14. (a) True
15. "The force of attraction between two magnetic poles is directly proportional to the product of their strength and inversely proportional to the square of the distance separating them."
16. Inverse Square
17. (b) False
18. (b) False
19. south pole
20. *"Great things are not done by impulse, but by a series of small things brought together."*



Lesson 3: *Inventions & Discoveries*

Picking Up Paperclips

1. (a) True
2. induction

3. (a) a small elementary magnet in a ferromagnetic substance
4. (b) False
5. (a) act together
6. (b) False
7. magnetism
8. magnets
9. (c) steel
10. (b) steel
11. (a) stroking the needle in the same direction with a magnet
12. (b) weakened
13. (b) weakens
14. magnetic
15. (b) False
16. electrons
17. Ferromagnetic
18. electric
19. always
20. *"Unlike magnetic poles and personalities, our character is like a magnet that attracts people like us and repels people not like us."*



Lesson 4: *Inventions & Discoveries*
From Magnets to Mars

1. electromagnet
2. electromagnets
3. electric
4. (b) parallel
5. reversed
6. (a) current
7. concentric
8. solenoid
9. electromagnet
10. (b) Michael Faraday
11. education
12. scientists
13. seven
14. (a) increasing the number of turns of wire
15. (b) False
16. (a) True
17. relay
18. telegraph
19. more
20. *"Action may not always bring happiness; but there is no happiness without action."*



Lesson 5: *Energy*
Force Fields

1. (b) False
2. (b) False
3. (c) work until you succeed
4. (c) deaf children
5. telephone
6. (b) False
7. simplicity
8. compressed
9. iron lung
10. (b) the region in which a magnet exerts its influence
11. stronger
12. (c) the lines of force of the magnetic field
13. (a) current electricity
14. (a) it carries an electric current
15. magnetic
16. (c) generate electricity using magnetism
17. galvanometer
18. induction
19. motion
20. *"The heights by great men reached and kept, Were not attained by sudden flight, But they, while their companions slept, Were toiling upward in the night."*

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!