ACTIVITY ANSWER KEY

Chapter 4, Section 1

Check your answers from the Answer Key.
Correct all errors, then complete your next goal.
Answers separated by commas may be in any order.
Answers separated by semicolons must be in stated order.

Alexander Graham Bell

1. (c) Scotland
2. brothers
3. (b) False
4. (h) only d and e
5. (c) allowed him to become a serious student
6. speech defects
7. mathematical
8. March 10, 1876
9. (b) False
10. Centennial Exhibition; Philadelphia
11. Bell's father, Professor Henry, Thomas Watson, Dom Pedro, Thomas Edison
12. (c) He invented a microphone
13. (b) False
14. challenges; Supreme Court
15. 3 (a) Bell discovered that each sound had its own mathematical frequency
    1 (b) Bell's brothers died in Scotland
    2 (c) Bell learned acoustics from his father
    5 (d) Bell exhibited his telephone in 1876
    4 (e) Bell acquired mathematical skills
    6 (f) Bell won court battles to prove that he invented the telephone
16. (a) True
17. "*Sometimes we stare so long at the door (of opportunity) that is closing that we see too late the one that is opening.*"

Eli Whitney

1. business; need; profit
2. (a) True
3. (a) **Fact**
4. (f) only b and d
5. Yale; tutor
6. honesty; manners
7. farmers; bowls
8. (b) an engine
9. (a) a document that shows ownership
10. (c) stealing concepts
11. (b) False
12. rifles (muskets); individually; hand
13. parts
14. Congress; rifles (muskets)
15. (b) Industrial
16. (c) He pirated patents
17. "*If once you forfeit the confidence of your fellow citizens, you can never regain their respect and esteem.*"

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Elias Howe

1. thorns; bones
2. (a) True
3. (d) labor intensive
4. (a) **Fact**
5. (b) physics
6. shingle; 16
7. (d) steam tractors
8. (a) **Fact**
9. (c) awkward
10. (a) True
11. Poverty
12. (a) friend
13. _3_ (a) Went to England to visit textile factories

    _2_ (b) Sewed garments for free to expose his machine to Americans

    _1_ (c) Obtained free housing and finances from a friend

    _4_ (d) Sold his machine design to a British textile owner who proved to be dishonest

    _5_ (e) Borrowed money to send his family back to America

    _6_ (f) Elias worked as a mechanic while he built another mechanical sewing machine
14. (c) is broke
15. pirated; inventor
16. 250,000
17. (c) clothing
18. (a) True
19. "*The man who can keep a secret may be wise, but he is not half as wise as the man with no secrets to keep.*"

Robert Fulton

1. mechanical; steam
2. (a) True
3. (a) France
4. Hudson; New York; current
5. (b) steam-powered boats
6. paddle wheels; steam
7. (b) boats
8. (d) machine
9. (b) False
10. (b) False
11. (a) one-third
12. (c) implement your dreams in spite of criticism
13. (g) only b and d
14. (a) **Fact**
15. "*Show me your hands. Do they have scars from giving? Show me your feet. Are they wounded in service? Show me your heart. Have you left a place for Divine love?*"

Thomas Edison

1. distracted; manage
2. school; mother
3. (a) had a huge appetite for book learning
4. (c) a driving need
5. (b) False
6. (d) New Jersey
7. (b) Morse Code

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8. (d) all of these
9. (c) filed applications for his inventions in the US Patent Office
10. inventor
11. (c) Henry Ford
12. (a) WWI
13. 1879; New York City
14. (a) True
15. General Electric
16. (c) jobs
17. (b) False
18. (d) all of these
19. "*Our greatest weakness lies in giving up. The most certain way to succeed is always to try just one more time.*"

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ACTIVITY ANSWER KEY

Chapter 4, Section 2

Check your answers from the Answer Key.
Correct all errors, then complete your next goal.
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Answers separated by semicolons must be in stated order.

Henry Ford

1. ship
2. (a) True
3. (b) put America on wheels
4. (a) True
5. (c) Thomas Edison
6. (b) putting into action
7. (a) **Contrast**
8. (a) True
9. (b) **Opinion**
10. (a) **Fact**
11. (b) False
12. (g) only a, c, and e
13. court battles
14. (production) costs
15. million
16. covers; horns, tires
17. (a) True
18. schools; mathematical
19. (b) lower their prices
20. (a) Free enterprise
21. industrial expansion
22. "*Obstacles are those frightful things you see when you take your eyes off your goal.*"

Samuel Morse

1. pigeons, horsemen
2. communication
3. telegraph
4. (d) Benjamin Franklin
5. (b) False
6. electricity
7. (b) False
8. alphabet; dots, dashes
9. communication
10. (b) False
11. (a) **Fact**
12. (b) Congress
13. "What hath God wrought?"
14. telegraph; Pony Express
15. Europe; transatlantic
16. (a) True
17. "*Every child has a dream; to pursue the dream is in every child's hand to make it a reality.*"

Theodore Judah

1. crazy; railroads
2. (b) **Opinion**
3. (b) to build a railroad
4. (a) moved away

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5. California; Mississippi
6. **Fact**
7. (c) Abraham Lincoln
8. (c) interested entrepreneurs
9. (b) **Inferred**
10. (d) completion
11. (d) Irish/Chinese
12. mountains; canyons; bandits; Indians
13. (g) only c and d
14. weather; thieves; buffalo
15. golden
16. (b) False
17. livestock; people; antelope
18. (d) all of these
19. "*If at first you don't succeed, try, try, try again.*"

William E. Boeing

1. stepfather; boarding
2. (b) **Conjecture**
3. stepfather; College; timber
4. (a) True
5. inquisitive; airplane; California
6. US Navy
7. (a) True
8. passengers (people)
9. (c) aluminum
10. 1,000
11. (b) False
12. (b) United
13. leadership; financial
14. B-17; B-52 bombers
15. atomic; Japan
16. passenger
17. military, civilian
18. (b) Bomber
19. "*No one is to dismiss any novel idea with the statement that 'it can't be done!'*"

The Wright Brothers

1. aviation; helicopter
2. (a) True
3. (b) False
4. finances; aviation (flying)
5. (c) gliders
6. wings; flight
7. experimenting
8. (d) two wings
9. five; bones; wings
10. controls; crashed
11. control; speed
12. (b) False
13. (b) False
14. (b) doubt
15. France; heroes
16. _2_ (a) experimented with kites and gliders

    _1_ (b) Mrs. Wright had tuberculosis

    _3_ (c) tinkering with and making bicycles in Ohio

    _5_ (d) included a woman in a motorized, bi-wing flight in France

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_4_ (e) suspended experiments due to criticism

_6_ (f) returned to the United States as heroes.

17. (g) all except c

18. **Inference**

19. (a) accelerated

20. aviation; speeds

21. "*Do not let yourself be forced into doing anything before you are ready*."

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