ACTIVITY ANSWER KEY

Chapter 9, Section 1

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



Lesson 1: *Planets*

Keeping Time—Years and Days

1. (a) calendar
2. (b) orbit once around the Sun
3. June 21
4. (c) North Pole
5. December 21
6. (d) year
7. (b) False
8. (c) Sirius
9. short
10. (b) False
11. (b) False
12. (d) summer
13. (c) the tilt of the Earth on its axis
14. south
15. (b) opposite
16. toward
17. equinox
18. March 21
19. September 23
20. *"The future will belong to those who do the most for suffering humanity."*



Lesson 2: *Inventions & Discoveries*

Keeping Time—The Calendar

1. (b) False
2. (a) *almanac*
3. (b) False
4. observatory
5. (c) to mark various astronomical events
6. (c) England
7. (b) False
8. (a) True
9. (a) eclipses
10. (b) has many other numbers that can divide it
11. (d) the time the Earth goes around the Sun once
12. (c) 365 ¼ days
13. Julius
14. August
15. (b) False
16. (a) Gregorian
17. (b) False
18. before Christ
19. after
20. *"Change is not made without inconvenience, even from worse to better."*



Lesson 3: *Inventions & Discoveries*

Keeping Time—Sundials and Hourglasses

1. year
2. revolve
3. 72
4. day
5. meridian, same
6. Solar
7. (c) taking an average
8. moon
9. (d) the moon completes one orbit around the Earth
10. (a) True
11. 1600s
12. (c) toward the celestial North Pole

13. (a) slowly
14. (d) it was the most accurate way to measure time
15. (b) an ***hourglass***
16. clocks, large
17. hour
18. (b) catch and release gears
19. escapements
20. pendulums
21. *"It is the supreme art of the teacher to awaken joy in creative expression and knowledge.*"



Lesson 4: *Inventions & Discoveries*
Keeping Time—Clocks

1. (b) False
2. (a) time
3. (b) Christiaan Huygens
4. (c) had only hour hands
5. pendulum
6. (a) became known as grandfather clocks
7. (b) at the invitation of King Louis XIV
8. (b) fit in a cabinet
9. hairspring
10. (a) True
11. (c) kilogram
12. 4ºC
13. (d) ***meter***
14. derived
15. (c) time
16. (d) seconds in a day
17. (b) False
18. water (or oceans)
19. (c) both a and b
20. *"It is good to remember that the tea kettle, although up to its neck in hot water, continues to sing."*



Lesson 5: *Inventions & Discoveries*
Keeping Time for Navigation

1. (c) John Harrison
2. instruments
3. Latitude
4. (b) at Greenwich, England
5. Prime Meridian
6. fifteen (15)
7. (b) False
8. (a) True
9. (a) True
10. (a) hoped some of their scientist friends would win the prize
11. 1/14th
12. (b) King George III
13. Neil A. Armstrong
14. chronometer
15. 60
16. synchronous
17. (b) ***quartz crystal***
18. (b) False
19. main spring
20. *"The only place where success comes before work is in a dictionary."*

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!