ACTIVITY ANSWER KEY

Chapter 4, Section 1

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



Lesson* 1: *Astronomy
Far Away Distances

1. (a) pride and prejudice
2. (b) basic
3. (c) study the stars
4. (b) telescopes
5. time (or hours); (any order) miles, kilometers
6. Canada, Mexico, oceans (or water)
7. (d) all of these
8. time = distance/speed
9. kilometers
10. 0.62
11. (d) division
12. (b) False
13. 93 million miles (or 93,000,000 miles)
14. 149,600,000 kilometers
15. (c) enormous/immense
16. (b) vast distances in space
17. 1 AU
18. Mercury
19. Pluto
20. Jupiter
21. 108,200,000
22. (c) the planet closest to the Sun listed first
23. (b) in person and by phone
24. *" 'Tis distance lends enchantment to the view, and robes the mountain in its azure hue."*
25. (b) 6
26. (a) 50
27. (b) 2 (Shown work: 100/50 = 2)
28. (b) 6 hours (Shown work: 360/60 = 6)
29. (a) 350 miles (Shown work: 70x5 = 350)



Lesson* 2: *Astronomy
The Sun

1. (c) both a and b
2. (c) the Earth is spinning
3. (a) The Earth revolves around the Sun.
4. (a) True
5. (c) the Sun
6. photosynthesis
7. (c) It is much closer to Earth than any other star.
8. 71% hydrogen and 27% helium
9. (a) Nuclear energy is produced.
10. (a) True
11. (a) at the core
12. (a) center
13. (c) sunspot
14. core, radiation zone, convection zone, photosphere, chromosphere, corona
15. (b) False
16. (d) sunspots
17. (c) photosphere
18. (b) False
19. (a) cooler gas shines less brightly than hotter gas
20. Galileo, sunspots
21. (any order) magnetism, electric power transmissions
22. (b) The Sun rotates.
23. (a) True
24. (any order) skin cancer, heat exhaustion, heat stroke, dehydration
25. (d) tired and inattentive to your surroundings
26. *"Like a ray of sunshine, a cheerful word can brighten your day."*

27. (c) Energy From the Sun
28. Necessary for ***photosynthesis***
29. (d) 1968, 1969, 1970
30. (b) 1979, 1980, 1981



Lesson* 3: *Astronomy
Mercury

1. (b) False
2. Mercury
3. Pluto
4. 29.79
5. 47.89
6. (any order) Mercury, Venus, Earth, Mars
7. (b) size and composition
8. 100º, 0º
9. 212º, 32º
10. Mercury
11. (d) 425º to -175º
12. 600, 1,100
13. rotation (or rotate); revolution (or revolve)
14. 58 days
15. 24 hours
16. Mercury
17. Earth
18. (c) pitted with craters
19. (b) an unmanned spacecraft passed by the planet in 1974 and 1975 and sent back photographs
20. shooting stars
21. (d) a liquid iron compound in its outer core
22. (c) Mercury is the second-smallest planet
23. (a) little or no atmosphere exists to hold in the heat
24. ice
25. 4,879
26. 12,756
27. (c) Earth is a baseball and Mercury is a golf ball.
28. (a) larger
29. (c) humans could not survive on Mercury
30. (d) were a very fast runner
31. (a) True
32. *"Know what you're running towards if you expect to reach your destination."*



Lesson* 4: *Astronomy
Venus

1. (c) a thick layer of clouds
2. (c) a cloud that forms close to Earth's surface
3. (d) permanent
4. (b) False
5. (c) high above the planet
6. (a) dense atmosphere near the planet's surface on Venus
7. (b) heat building up in a parked car with its windows up and doors closed
8. hottest planet
9. (a) True
10. greater
11. from east to west
12. (wording may vary) Most other planets rotate from west to east.
13. (b) mountains, valleys and possible volcanoes
14. sister planet
15. (b) astronomer
16. (c) a computer disk with special project data
17. *"Do not let worries cloud your view of life."*
18. Venus
19. Earth
20. Earth
21. Earth
22. 243 days
23. Venus



Lesson* 5: *Astronomy
Earth

1. Anthropic Principle
2. average

3. 12,756
4. Jupiter
5. Pluto
6. Venus
7. Saturn
8. Mars
9. (any order) Mercury, Venus, Mars, Pluto
10. (any order) Mercury, Venus
11. (b) it is flattened at the poles
12. (a) True
13. (b) False
14. (b) The Earth is closest to the Sun on that date.
15. 365.26 days
16. 365
17. 23 hours, 56 minutes
18. 24 hours
19. period of revolution
20. day and night, winds
21. _c_ Evidence that Earth rotates
22. _b_ Crust plus upper shell of the mantle
23. _a_ Center of the Earth
24. _d_ 78% nitrogen, 21% oxygen, 1% other
25. (b) a complex plan and purpose
26. (any order, wording may vary) division between night and day; precise positions of the Sun, Moon and stars; global winds
27. (a) contented
28. increased your jogging distance
29. *"Nature is the art of God."*

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!


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