

World Geography

Chapter 2 – The Earth in Space

Unit Objectives

- Introduce Geography as a field of study.
- Explain the earth's position in space.
- Be able to explain the many factors that shape of physical world.
- Analyze the interrelationship of the earth, the sun, and all plant and animal life found on earth.
- Examine the processes that shaped the world as we know it.
- Describe the expansion, migration, and development of culture and people.
- Explain how the five themes of Geography can be used to describe human interaction on earth.

Chapter Objections and Skills

- * Describe Earth's Position in the Solar System.
- * Explain how Earth's rotation on its axis and revolution around the sun affects the planet.
- * Explain how the earth different amounts of heat from the sun and why the amounts differ.
- * Distinguish between a solstice and equinox, and their relationship to the four seasons.
- * Explain how time zones developed and determine the current time in different areas of the world.
- * Identify the earth's four spheres.
- * Analyze how earth's environment is unique in our solar system.
- * Explain how the earth can be described as a physical system thought plate tectonics.

Meeting Indiana Academic Standards for Geography and History of the World

In this chapter we will cover material that will focus on the following Indiana standards: GHW 1.1, GHW 5.5, GHW 8.3 GHW 9.1, GHW 9.2, and GWH 9.3. Chapter one covers textbook pages 28 through 47 in the adopted textbook Geography and History of the World©2010 McGraw-Hill.

Additional Help

All classroom activities are available online at

http://www.fdbond.com/Index-World_Geo_Physical.htm

Also, the publisher of the textbook (Glencoe) has the textbook and review activities available at their web site at

http://glencoe.mcgraw-hill.com/sites/0078799899/student_view0

Vocabulary and Terms From Chapter Two

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|----------------------|----------------|--------------------|
| 1. Atmosphere | 11. Magma | 22. Water Cycle |
| 2. Biosphere | 12. Subduction | 23. Evaporation |
| 3. Hydrosphere | 13. Accretion | 24. Condensation |
| 4. Lithosphere | 14. Spreading | 25. Precipitation |
| 5. Continental Shelf | 15. Fold | 26. Desalinization |
| 6. Core | 16. Fault | 27. Groundwater |
| 7. Mantle | 17. Faulting | 28. Aquifer |
| 8. Crust | 18. Weathering | |
| 9. Continental Drift | 19. Erosion | |
| 10. Plate Tectonics | 20. Glacier | |
| | 21. Moraine | |

Other Terms

The Solar System

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|----------------------|-----------------------|-------------------------|
| 26. <i>Aphelion</i> | 31. <i>Perihelion</i> | 36. <i>Solar Energy</i> |
| 27. <i>Astronomy</i> | 32. <i>Planets</i> | 37. <i>Solar System</i> |
| 28. <i>Moons</i> | 33. <i>Rotation</i> | 38. <i>Spring Tide</i> |
| 29. <i>Neap tide</i> | 34. <i>Revolution</i> | 39. <i>Telescope</i> |
| 30. <i>Orbit</i> | 35. <i>Satellite</i> | 40. <i>Tilt</i> |

Earth-Sun Relationships

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|-----------------------------|----------------------------|-----------------------------|
| 41. <i>Meridian</i> | 48. <i>GMT</i> | 58. <i>Time Zone</i> |
| <i>Conference</i> | 49. <i>Leap Year</i> | 59. <i>Tropic of Cancer</i> |
| 42. <i>Angle of</i> | 50. <i>Polar Regions</i> | 60. <i>Tropic of</i> |
| <i>Inclination</i> | 51. <i>Prime Meridian</i> | <i>Capricorn</i> |
| 43. <i>Antarctic Circle</i> | <i>Conference</i> | 61. <i>Tropics</i> |
| 44. <i>Arctic Circle</i> | 52. <i>Seasonality</i> | 62. <i>UTC</i> |
| 45. <i>Autumnal</i> | 53. <i>Solar Time</i> | 63. <i>Vernal Equinox</i> |
| <i>Equinox</i> | 54. <i>Solstice</i> | 64. <i>Winter Solstice</i> |
| 46. <i>Circle of</i> | 55. <i>Standard Time</i> | 65. <i>Zulu Time</i> |
| <i>Illumination</i> | 56. <i>Summer Solstice</i> | |
| 47. <i>Equinox</i> | 57. <i>Temperate Zone</i> | |

The Earth System

- 66. *Abiotic*
- 67. *Biotic*
- 68. *Ice Age*

Identify on the map provided the following locations.

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|----------------------|----------------------|-----------------------|
| 1. Isthmus of Panama | 7. San Andreas Fault | 13. Indian Ocean |
| 2. Sinai Peninsula | 8. Ring of Fire | 14. Arctic Ocean |
| 3. Mount Everest | 9. Antarctica | 15. Mediterranean Sea |
| 4. Dead Sea | 10. Greenland | 16. Gulf of Mexico |
| 5. Mariana Trench | 11. Pacific Ocean | |
| 6. Himalaya | 12. Atlantic Ocean | |

Questions to Answer

1. Explain the rotation of the moon around the earth and the creation of tides.
2. Define a galaxy and a Universe.
3. What are terrestrial planets? List them.
4. What are gas planets? List them.
5. What planets have a detectable atmosphere? List them.
6. Define the word equinox. When do the equinoxes occur?
7. Define the word solstice. When do the solstices occur?
8. What is the shape of the earth's orbit?
9. Place the planets in order from the sun.
10. Rank the planets in order according to size.
11. What is a solar calendar length of a year?
12. What is a lunar calendar length of year?
13. Describe the earth in its travel around the sun and as it turns on its axis.
14. Define perihelion. When does it occur?
15. Define aphelion. When does it occur?
16. During the equinoxes, what direction does the earth axis point?
17. During the solstices, what direction does the earth axis point?
18. How does the hydrosphere, lithosphere, atmosphere, support the biosphere?
19. Explain plate tectonics.
20. Be able to diagram the makeup of the earth from inner-core to lithosphere.
21. Explain how the water cycle works. How does it support life?