

## World Geography Ch. 2 Guided Reading

**2.1 READING THE SECTION** Complete the following outline by supplying the main idea and the missing subtopics and supporting details. Include page numbers of all answers.

### **The Solar System**

**Main Idea:** \_\_\_\_\_

**Topic I:** Planets are major bodies that orbit a star.

**Detail A:** There are four inner and five outer planets in the solar system.

**Detail B:** \_\_\_\_\_

**Topic II:** \_\_\_\_\_

**Detail A:** The diameter of the Sun is more than 100 times greater than that of Earth.

**Detail B:** \_\_\_\_\_

**Detail C:** The Moon is about 240,000 miles from Earth and is about one fourth of Earth's size.

**Topic III:** Rotation, revolution, and tilt affect the amount of solar energy received at different locations on Earth.

**Detail A:** A rotation, which takes 24 hours, is one complete spin of Earth on its axis.

**Detail B:** \_\_\_\_\_

**Detail C:** \_\_\_\_\_

**POST-READING QUICK CHECK** Identify the four inner planets and the five outer planets in the solar system. Include page numbers of all answers.

1. Inner Planets: \_\_\_\_\_

2. Outer Planets: \_\_\_\_\_

**2.2 READING THE SECTION** Circle the letter of the statement in each pair that is true. Include page numbers of all answers.

1.     a. The polar regions receive the most solar energy throughout the year.  
       b. The tropics receive the most solar energy throughout the year.
2.     a. When the North Pole points toward the Sun, direct rays strike the Southern Hemisphere.  
       b. When the North Pole points toward the Sun, direct rays strike the Northern Hemisphere.
3.     a. There are four general seasons: winter, spring, summer, and fall.  
       b. There are five general seasons: winter, spring, summer, fall, and autumn.
4.     a. The tilt of Earth's axis causes the Northern and Southern Hemispheres to have the same seasons at the same time of the year.  
       b. The tilt of Earth's axis causes the Northern and Southern Hemispheres to have opposite seasons at the same time of the year.
5.     a. Solstices occur each year about December 21 and June 21.  
       b. Solstices occur each year about March 21 and September 22.
6.     a. The Tropic of Capricorn is the parallel located 23 1/2 degrees south of the equator.  
       b. The Tropic of Capricorn is the parallel located 23 1/2 degrees north of the equator.
7.     a. All areas located south of the Antarctic Circle have 24 hours of darkness.  
       b. All areas located south of the Antarctic Circle have 24 hours of daylight.
8.     a. The Arctic Circle is located 66 1/2 degrees north of the equator.  
       b. The Arctic Circle is located 66 1/2 degrees south of the equator.
9.     a. During a solstice, both hemispheres receive 12 hours of daylight.  
       b. During an equinox, both hemispheres receive 12 hours of daylight.

**POST-READING QUICK CHECK** Describe the location and general weather pattern of each latitude shown below. Include page numbers of all answers.

1. Low-Latitude Areas—Location: \_\_\_\_\_  
Weather: \_\_\_\_\_
2. High-Latitude Areas—Location: \_\_\_\_\_  
Weather: \_\_\_\_\_
3. Middle-Latitude Areas—Location: \_\_\_\_\_  
Weather: \_\_\_\_\_

**2.3 READING THE SECTION** For each description below, underline the part of the Earth system being described. Include page numbers of all answers.

1. The solid crust of the planet  
• Atmosphere • Lithosphere • Hydrosphere • Biosphere
2. Includes all life forms, both plants and animals  
• Atmosphere • Lithosphere • Hydrosphere • Biosphere
3. The envelope of gases that surrounds Earth  
• Atmosphere • Lithosphere • Hydrosphere • Biosphere
4. All of Earth's water  
• Atmosphere • Lithosphere • Hydrosphere • Biosphere
5. Includes land and soil  
• Atmosphere • Lithosphere • Hydrosphere • Biosphere
6. Extends from deep ocean floors to high in the atmosphere  
• Atmosphere • Lithosphere • Hydrosphere • Biosphere
7. Protects Earth from the Sun's harmful radiation  
• Atmosphere • Lithosphere • Hydrosphere • Biosphere
8. Covers about 70 percent of Earth's surface  
• Atmosphere • Lithosphere • Hydrosphere • Biosphere

**The Earth System** Complete the graphic organizer by listing the characteristics of each of the four spheres. Note any connections between or among them. Include page numbers of all answers.

NAME OF SPHERE	CHARACTERISTICS	CONNECTIONS TO OTHER SPHERES
<b>ATMOSPHERE</b>		
<b>LITHOSPHERE</b>		
<b>HYDROSPHERE</b>		
<b>BIOSPHERE</b>		