

## Chapter 22

Text Pages 614–621

## STUDY GUIDE

## ● Planet Earth

Use the words in the box to fill in the blanks in the statements.

revolution  
sphere-shaped  
24 hours  
axis

ellipse  
sphere  
365 days

seasons  
center  
rotation

1. A round, three dimensional object is a \_\_\_\_\_.
2. All points on a sphere's surface are the same distance from the \_\_\_\_\_ of the sphere.
3. Images from space probes and artificial satellites show that Earth is \_\_\_\_\_.
4. The North and South Poles are located at the ends of Earth's \_\_\_\_\_, the imaginary line around which Earth spins.
5. The spinning of Earth on its axis that causes day and night is called \_\_\_\_\_.
6. One complete rotation of Earth takes about \_\_\_\_\_.
7. Earth's yearly orbit around the sun is its \_\_\_\_\_.
8. One complete revolution of Earth takes about \_\_\_\_\_.
9. The path of Earth's orbit is in the shape of an elongated closed curve called an \_\_\_\_\_.
10. Earth's tilted axis causes \_\_\_\_\_.

Answer the following questions on the lines provided.

11. What is inclined at an angle of  $11.5^\circ$  to Earth's rotational axis? \_\_\_\_\_
12. What is the sun directly over at the equinoxes? \_\_\_\_\_
13. Which season begins in the northern hemisphere when the sun reaches its greatest distance south of the equator? \_\_\_\_\_
14. On what date does the southern hemisphere begin spring? \_\_\_\_\_
15. At the March equinox, what season begins in the northern hemisphere? \_\_\_\_\_
16. At the summer solstice in the northern hemisphere, at what point is the sun?  
\_\_\_\_\_