

Name: _____ Date: _____
Class: _____ Ch 2 The Earth in Space Study Guide

1. Describe the composition of the hydrosphere, detailing oceans and freshwater.
2. Describe the percent composition of the atmosphere.
3. What is the crust? Describe the different kinds of crust.
4. What is the mantle? Describe the lithosphere and the Asthenosphere. What unique properties does the Asthenosphere have?
5. Describe the earth's core. What distinguishes the inner from the outer core?
6. What are seismic waves? Describe the properties of the P and S-waves. What influence does composition of the material have on these waves?
7. How do seismic waves behave in each layer of the earth?
8. What is the Moho? What are shadow zones? What is responsible for the formation of shadow zones?
9. What is the magnetosphere? What is a possible source of the magnetosphere?
10. Define gravity. Describe the law of gravitation. What is weight and how is it measured? What is mass?
11. Distinguish between revolution and rotation of the earth. How much time does it take for one revolution? One Rotation?
12. What would happen if the rate of revolution was increased? Decreased? What would happen if the rate of rotation was increased? Decreased?
13. Identify Perihelion. When does it occur? Identify Aphelion. When does it occur?
14. Describe the time and characteristics of the Summer and Winter Solstices. What is the length of the daylight hours during each solstice? Where do the sun's rays strike the earth at 90° during each solstice?
15. Describe the time and characteristics of the Autumnal and Vernal Equinoxes. What is the length of daylight hours during each equinox?
16. What influence does the tilt of the earth have on the seasons and the sun's rays striking the earth?
17. Describe precession and its cause.
18. What are time zones? How many degrees of the earth's circumference is covered in each time zone? What determines the middle of a time zone?
19. Define a polar orbit. Define a geosynchronous orbit. How does perigee and apogee relate to their orbits?
20. What is the function of navigation satellites?