

Name: _____

Directions-Use the websites below to help you answer the following questions. Use complete sentences for all but the fill in. Go to <http://missmorrisegeography.weebly.com> and under chapter assignments Chapter 2 click on Ocean tides web-quest.

<http://www.enchantedlearning.com/subjects/ocean/Tides.shtml>

- 1) Give a definition of tides and explain what causes them.

<http://www.physicalgeography.net/fundamentals/8r.html>

14. An ocean _____ refers to the cyclic rise and fall of seawater. Tides are caused by slight variations in _____ between the _____ and the _____ and the Sun in geometric relationship with locations on the Earth's surface. Tides are periodic primarily because of the _____ of the _____.

15. The moon is the primary factor controlling the _____ and _____ of tides. The moon produces _____ somewhere on the Earth through the effects of gravitational attraction. The height of these tidal bulges is controlled by the _____ and the Earth's _____ pulling the water back toward the Earth.

16. At the location on the Earth _____ to the moon, seawater is drawn _____ the moon because of the greater strength of _____. On the opposite side of the Earth, another tidal bulge is produced _____ from the moon. However, this bulge is due to the fact that at this point on the Earth the force of the moon's gravity is at its _____. Considering this information, any given point on the Earth's surface should experience _____ and _____ during each tidal period.

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17. Explain what causes water nearest to the moon to form a bulge? How would we be able to tell here on earth?

18. Where else does the water form a bulge? Why?

19. How many tides are there each day?

20. How much time is there between tides?