Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Chapter 28 – Sun, Earth, Moon Relationships
WebQuest

Day & Night
Before you begin: What do you think causes the different between day and night on Earth?

Now use the internet to answer the following questions:

1. How long does one complete revolution of the Earth around the Sun take? Make sure you include a diagram of the Earth revolving around the Sun. <http://www.geography4kids.com/files/en_geometry.html>

2. How long does one complete rotation of the Earth take? Make sure you include a diagram of the showing how the Earth rotates. <http://www.geography4kids.com/files/en_geometry.html>

3. Explain what you notice about the changes in the day and night patterns as you click on the different “solstice” and “equinox” links below the diagram. Compare the patterns at the poles to those at the equator. Explain the different patterns using either words or pictures. <http://www.timeanddate.com/worldclock/sunearth.html>

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Moon Phases
Before you begin: What do you think causes the moon to be fully lit up some times but only partially lit at others?

Now use the internet to answer the following questions:

1. Why does the moon appear to change over time in our night sky? Explain with words and/or diagrams. <http://earthsky.org/moon-phases/understandingmoonphases>

2. How does the moon affect how tides are formed? Explain with words and/or diagrams. <http://home.hiwaay.net/~krcool/Astro/moon/moontides/>

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Seasons
Before you begin: Why do you think there are different seasons on earth?

Now use the internet to answer the following questions:

1. What is the winter solstice? How does this affect the amount of sunlight that we see in Bettendorf, IA? [http://www.windows2universe.org/the\_universe/uts/winter.html&lang=en](http://www.windows2universe.org/the_universe/uts/winter.html%26lang%3Den)

2. What is an equinox? How does this affect the amount of light that we see in Bettendorf, IA? <http://www.windows2universe.org/the_universe/uts/equinox.html>

1. When does the vernal equinox occur?
2. When does the autumnal equinox occur?

3. Why are there different seasons on Earth? <http://www.windows2universe.org/earth/climate/cli_seasons.html>

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Tides
Before you begin: What do you remember about the causes of tides in the ocean?

Now use the internet to answer the following questions:

1. What causes tides to occur? <http://legacy.mos.org/oceans/motion/tides.html>
2. Using the same website, what is the difference between a spring tide and a neap tide? Make sure to include diagrams that show how the Earth, Sun and Moon are lined up for each of the two types of tides.