**Moon Webquest:**

**Name: Date: Period:**

Link 1: <http://www.windows2universe.org/earth/moon/moon_evolution_overview.html>

1. Describe the three theories on how the moon formed:

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1. Describe the basic history of how the moon formed:

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Link 2: <http://www.youtube.com/watch?v=OZIB_leg75Q>

1. Watch the movie linked above (no sound). Describe how the moon rotates around the Earth?

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Link 3: <http://www.youtube.com/watch?v=nXseTWTZlks>

1. Watch the movie linked above.
2. What are the four main phases of the moon:

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1. Define crescent, gibbous, waxing, waning:

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1. How is the orbit of the moon titled in relation to the Earth:

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Link 4: <http://www.glencoe.com/sites/common_assets/science/virtual_labs/ES22/ES22.html>

1. Go the link above and read the instructions on the left side of the page. Correctly identify each moon phase and diagram/label them below

Link 5: <http://www.youtube.com/watch?v=YS6IqnvnOak>

Link 6: <http://oceanservice.noaa.gov/education/tutorial_tides/tides01_intro.html>

1. Watch the above video (Link 5) then read the article on the second link. Then explain what are tides:

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Link 7: <http://oceanservice.noaa.gov/education/tutorial_tides/tides02_cause.html>

1. Read the article on the above link, then explain what causes the tides:

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1. Click on the image, then explain how much less the Sun’s effect on tides is than the moon and why:

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Link 8: <http://oceanservice.noaa.gov/education/tutorial_tides/media/supp_tide05.html>

1. Go to the above link, read the caption and watch the animation. Identify the length of the lunar day versus the solar day, why there is a difference, and what are the effects on the frequency of tides:

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Link 9: <http://oceanservice.noaa.gov/education/tutorial_tides/media/supp_tide06a.html>

1. Go to the above link and read the caption and watch the animation. In the space below, diagram spring and neap tides. Explain the difference from normal tides in regards to height of high and low tides, and the difference between the two

Link 10: <http://www.youtube.com/watch?v=2iSZMv64wuU>

1. Write down 10 facts:

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Link 11: <http://www.universetoday.com/62140/surface-of-the-moon/>

1. What are three differences between the moon and the Earth and how have they led to the Moon’s surface being relatively unchanged:

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1. What is the moon’s surface heavily cratered:

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Critical Thinking Questions:

1. If the moon and the sun were the same distance apart, which would have the most effect on the tides and why?

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1. Diagram the position of the sun, moon and earth for both a lunar and solar eclipse.
2. Take a look at the following picture: <http://www.relativelyinteresting.com/wp-content/uploads/2011/10/eclipse-from-space.jpg>

Describe what you are looking at:

Done, enjoy the following: <http://www.youtube.com/watch?v=LaqrQyTm9B4>