

Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Station 2: Phases of the Moon Web Quest

## Engage:

1. **Wonderville - Phases of the Moon** (This has sound – you will need headphones. If you do not have headphones go to number 2)

Hayley, Tommy and Proton discover the night sky as they track the moon. Explore why the moon looks the way it does during its different phases and learn the ...

<http://www.wonderville.ca/v1/activities/phases/phases.html>

2. **Lunar Cycle Challenge**

There are three levels in this *Lunar Cycle Challenge*, and after students successfully complete all three levels they can print out a ...

[http://www.sciencenetlinks.com/interactives/moon/moon\\_challenge/moon\\_challenge.html](http://www.sciencenetlinks.com/interactives/moon/moon_challenge/moon_challenge.html)

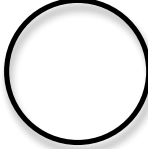
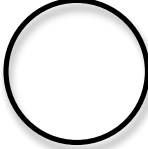
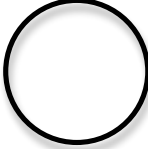
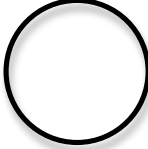
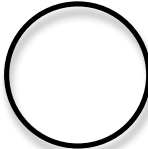
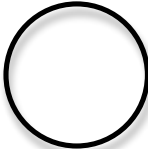
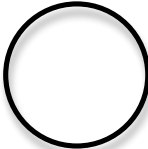
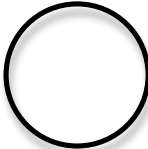
By now, you have already learned a little about the phases of the moon. Using the links page on your computer, answer the following questions to learn more about these phases! Remember to use the back button to get back to the links page when you have finished answering the questions for each link!

**Explore & Explain:** *Write your answers in the space provided.*

Go to: <http://www.murray.k12.ga.us/staci/moonphases.htm>

## Link 1:

1. How does the moon shine? (Scroll down to the Phases of the Moon section) Scroll on down the page to find the names of the eight phases of the moon and draw an illustration of each one looks like from the earth.

Phase: _____ 	Phase: _____ 	Phase: _____ 	Phase: _____ 
Phase: _____ 	Phase: _____ 	Phase: _____ 	Phase: _____ 

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2. What is meant by the term "Blue Moon"?

## Link 2:

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3. How many days are there in the cycle of the moon phases?

4. During the First Quarter phase, how much of the moon appears illuminated?

5. During the Waxing Gibbous phase, is the amount of illumination increasing or decreasing?

6. During the Waning Crescent phase, is the amount of illumination increasing or decreasing?

## Link 3:

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7. Is the phase of the moon different at different places on the earth? Why or why not?

8. When does the full moon rise into the sky?

9. When does the new moon rise?

## Link 4:

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10. On this site, scroll down to the bottom, change the Point of View to "Both", and click the **Animate** button to start the model. This link is mainly just for you to study, but can you figure out what is missing from this illustration? (or what is wrong with it...)

**Extend:**

## Link 5:

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11. On this link, you will see the phases of the moon illustrated for the current month. On the left side of the screen there is a "Moon Phase Calendar". Change the month to the month of your birthday and then click on the "Use Date" button. It will change so that you can see the phases of the moon for that month! What phase will the moon be in on your birthday this year? (As close as you can!) You can also change the year! Check and see what phase the moon was in on the actual day you were born.

**Evaluate:** Write a paragraph summarizing what you learned.