***Earth Moon and Sun Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

*Watch the video and answer the questions:*

<http://lessons.e-learningforkids.org/efk/Courses/EN/S0801/login.htm>

1. How long does it take for the moon to revolve around Earth? 27-29 days (about 1 month)
2. When you look at a full moon how much of it appears lit to us on Earth? All of it
3. When you look at a full moon how much of it is actually lit? ½ of it
4. What do we call it when a SLIVER of the moon is lit? Crescent
5. What do we call it when most, but not all of the moon is lit? Gibbous
6. What do we call it when the lit part of the moon is getting bigger? Waxing
7. What do we call it when the lit part of the moon is shrinking? Waning
8. How many moon phases are there? 8
9. Use the information from the video to label and draw your moon phase handout. (Make sure you start with New Moon) Get a handout
10. Record your score from the quiz: \_\_\_\_\_\_\_/7
11. Did you place the moon phases in the correct location? Yes or No

*Watch the animation and take the quiz.*

<http://www.childrensuniversity.manchester.ac.uk/media/services/thechildrensuniversityofmanchester/flash/earthandbeyond_f.swf>

1. Record your score from the quiz: \_\_\_\_\_\_\_/4

*Play the phases and pattern challenge.*

<http://sciencenetlinks.com/interactives/moon/moon_challenge/moon_challenge.html>

1. Why do we have moon phases?

Phases are caused by the constant changing positions of the sun, Earth, and moon.

Tides

<http://studyjams.scholastic.com/studyjams/jams/science/weather-and-climate/tides.htm>

1. What causes tides? The sun and moon’s gravitational pull
2. What do we call the lowest low tide? Neap tide
3. What do we call the highest high tide? Spring tide

*Look at the simulation below.*

<http://astro.unl.edu/classaction/animations/lunarcycles/tidesim.html>

Advanced

<http://www.artescapesonline.com/movies/Module%20IV_V15.swf>