

Name _____

Moon Phases and Tides

Websites:

US Naval Observatory Portal

http://aa.usno.navy.mil/data/docs/RS_OneDay.php

<http://aa.usno.navy.mil/data/docs/MoonPhase.php>

NOAA National Ocean Service Tides

http://tidesandcurrents.noaa.gov/tide_predictions.html

Activities:

- 1) Explain with a diagram and words what causes the phases of the Moon, especially New Moon and Full Moon.



2A) Use the appropriate link above to find the dates for Moon phases and complete this chart.

Month	New Moon	1 st Quarter Moon	Full Moon	Last Quarter Moon
May 2016				
June 2016				

2B) Sunrise/Sunset/Moonrise/Moonset Data

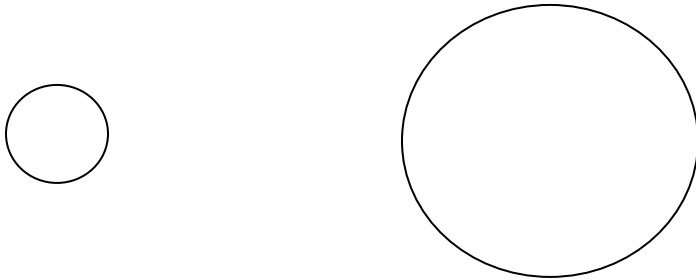
Record the times for Friday, 5/20 sunrise _____ sunset _____

Friday, 5/20 moonrise _____ moonset _____

Record the times for Saturday, 5/21 sunrise _____ sunset _____

Saturday, 5/20 moonrise _____ moonset _____

(3) Explain with a diagram and words how the Moon affects high and low tides.



(4) Explain with a diagram and words how the Sun also influences tide heights.

“Spring” tides (_____ high tides and _____ low tides)



What do you notice about the general pattern for high and low tides during the days of our trip?

(6) Compare your location with two other locations studies

_____ and _____.

What similarities do you observe? What differences? What might explain these?

(7) What other questions/observations can you make using these data?