Name				
	<u> </u>	Moon Phases and Tide	<u>25</u>	
Websites:				
US Naval Observator	ry Portal .mil/data/docs/RS_Or	neDay.php		
http://aa.usno.navy.mil/data/docs/MoonPhase.php				
NOAA National Ocea http://tidesandcurre	an Service Tides ents.noaa.gov/tide pr	redictions.html		
Activities:				
1) Explain with and Full Mod	a diagram and words on.	what causes the pha	ses of the Moon, espe	ecially New Moon
2A) Use the appropr	iate link above to find	the dates for Moon p	ohases and complete	this chart.
Month	New Moon	1 st Quarter Moon	Full Moon	Last Quarter Moon
May 2016				

June 2016

2B) Sunrise/Sunset/Moonrise/Mooset I	Data	
Record the times for Friday, 5/20 sunris	sunset	
Friday, 5/20 moon	moonset	
Record the times for Saturday, 5/21 sur	nrise	sunset
Saturday, 5/20 mooni	moonset	
(3) Explain with a diagram and words ho	ow the Moon affects high and lo	ow tides.
(4) Explain with a diagram and words ho	ow the Sun also influences tide	heights.
"Spring" tides (high tides and	low tides)
/		

"Neap tid	es" (hi	gh tides an	d		lov	w tides)	
Where are	e we today	in these pa	atterns?						
-		the Hudsor ents.noaa.g							
	_	ned one of to answer			-	ed times a	nd heights	for high an	d low
• TI	ne Battery	at the sout	hern tip of	Manhatta	n				
• Ec	dgewater,	NJ/the Geo	rge Washir	ngton Bridg	ge				
• A	pine/Dobb	s Ferry,							
• Ta	arrytown (t	he Tappan	Zee Bridge	e)					
• A	bany.								
Locati	on:								
Friday	Time	Height	Time	Height	Time	Height	Time	Height	notes
Saturday	Time	Height	Time	Height	Time	Height	Time	Height	notes

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?