Chapter 28.2 and 21.3 Moon Phases, Eclipses, and Tides Test: Earth Science, Mr. Traeger

Name:	Period:	Date:
Section	Major Questions to be asked and/or	Where do I find the information and/or where
	tasked to be measured	did we learn this?
28.2	 Movements of the Moon How does the moon orbit the Earth? Does it orbit in a perfect circle or in an elliptical shape? How were your lunar observations evidence of the fact that the Moon orbits the Earth? How were your lunar observations evidence that the Earth rotates (spins on its axis)? How many minutes later does the moon rise each day? WHY does the Moon rise later each day? What are the phases of the moon? Waxing, waning, gibbous, crescent, full moon, new moon, first quarter, third quarter? You need to be able to recognize and name the phases as seen from Earth AND recognize and name the phases being created as seen from a birds eye view above the Sun, the Earth, and the Moon. What are lunar eclipses and how do they form? What two special conditions are required for their formation? Know how to draw the ray path geometry of these eclipses. What are solar eclipses generally more common than solar eclipses and why do they last much longer in duration? 	 Section 28.2 Homework Lunar Calendar made in class Lunar observation sheet done at home Moonog motions lunar pictures activity Various animations available in classwork section of class website. Starry Night lunar phases and eclipses activity done in class.
21.3	 Tides What causes tides? What causes tides to change throughout the day? What causes tides to change over the course of a lunar cycle? What are spring tides and in what phases of the moon do they occur? What are neap tides and in what phases of the moon do they occur? What are neap tides and in what phases of the moon do they occur? Why is it that Earth experiences two tidal bulges in opposite directions? What has more effect on tides? The moon or the sun? Why is this given Newtons Law of Gravity? F_{gravity} = Gm₁m₂/r³ 	 Section 21.3 Homework Various animations available in classwork section of class website. Pilgrim Tides activity done in class