

the **Laboratory Instructions** (in the Syllabus Module) which will tell you how to submit this. Also read through the Midterm Project Rubric linked under Tools, which will tell you how this project will be graded. Be sure to read this full document before starting.

Total Time Required to Complete This Project: 3 weeks at the most. It will be stated in your course Schedule when to begin your observations. (~2 weeks to do observations and 1 week to write the paper portion.) For Exercise 1, each of the 14 observations should take **less than 5 minutes per night**. For Exercise 2, each of the 3 observations will take ~45 minutes which includes making the sketch and researching the features to complete the lab sheet. For Exercise 3, ~30 minutes.

Students Requesting Accommodations: Students requesting accommodations for the observations portion of this lab and to do an alternative assignment need to present a formal Accommodation request.

LATE WORK POLICY: The no late work policy will be strictly followed for this assignment. If you have any issues completing the observations contact your instructor ASAP.

PRE-EXPLORATION STUDY AND INFORMATION

I. EXPLORATION

The Moon is Earth's constant companion. Sometimes it is visible during the day, sometimes at night, and we see it go through various phases: New Moon, Waxing Crescent, First Quarter, Waxing Gibbous, Full Moon, etc. We find that this is all due to the moon orbiting the Earth. This lab should help you understand the Moon/Earth/Sun relationship. This lab will also introduce you to the lunar features (craters, mare, etc.) on the moon's surface along with some of the important missions that have journeyed to the moon.

PROCEDURES

II. ASSIGNMENT:

EXERCISE 1: OBSERVE THE MOON

NOTE: you can start with a hand drawn table IN PENCIL (cells filled in and your moon simple sketches), but then you must type your data for your report and you can include a clear picture of your moon sketches. Please check this before you submit your report.

For 14 consecutive days, observe the Moon at roughly the same time and place each night and record your data. It will be noted in your course Schedule when you are to begin these observations. **You will need to recreate Table 1 in your own document. Be sure to use a blank sheet of paper.** Space out the row heights to allow for the simple sketch required.

NOTE: It is fine for you to hand write this table and use it to make your observations, drawing your simple sketch of the moon. But then for your final report you need to type out the data and submit a clear image of your hand drawn table.

1. Complete all fields in Table 1. The Altitude is the number of degrees that the Moon is above the horizon, this value will be 90 degrees or less (see the end of Exercise 2 for helpful

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