

Name(s): _____

Date: _____ Course/Section: _____

Grade: _____

Observing Lunar Features

Objectives:

The goal of this lab is for students to observe basic features on the Moon, develop a basic understanding of the causes of some features, and learn how to measure the impact crater height on the Moon using basic geometry.

Checklist:

- Complete the pre-lab quiz with your team (if required).**
- Compile a list of resources you expect to use in the lab.**
- Work with your team to complete the lab exercises and activities.**
- Record your results and mark which resources you used.**
- Share and discuss your results with the rest of the class.**
- Determine if your team's answers are reasonable.**
- Submit an observation request for next week (if required).**

Pre-Lab Quiz

Record your group's answers to each question, along with your reasoning. These concepts will be relevant later in this lab exercise.

1.

2.

3.

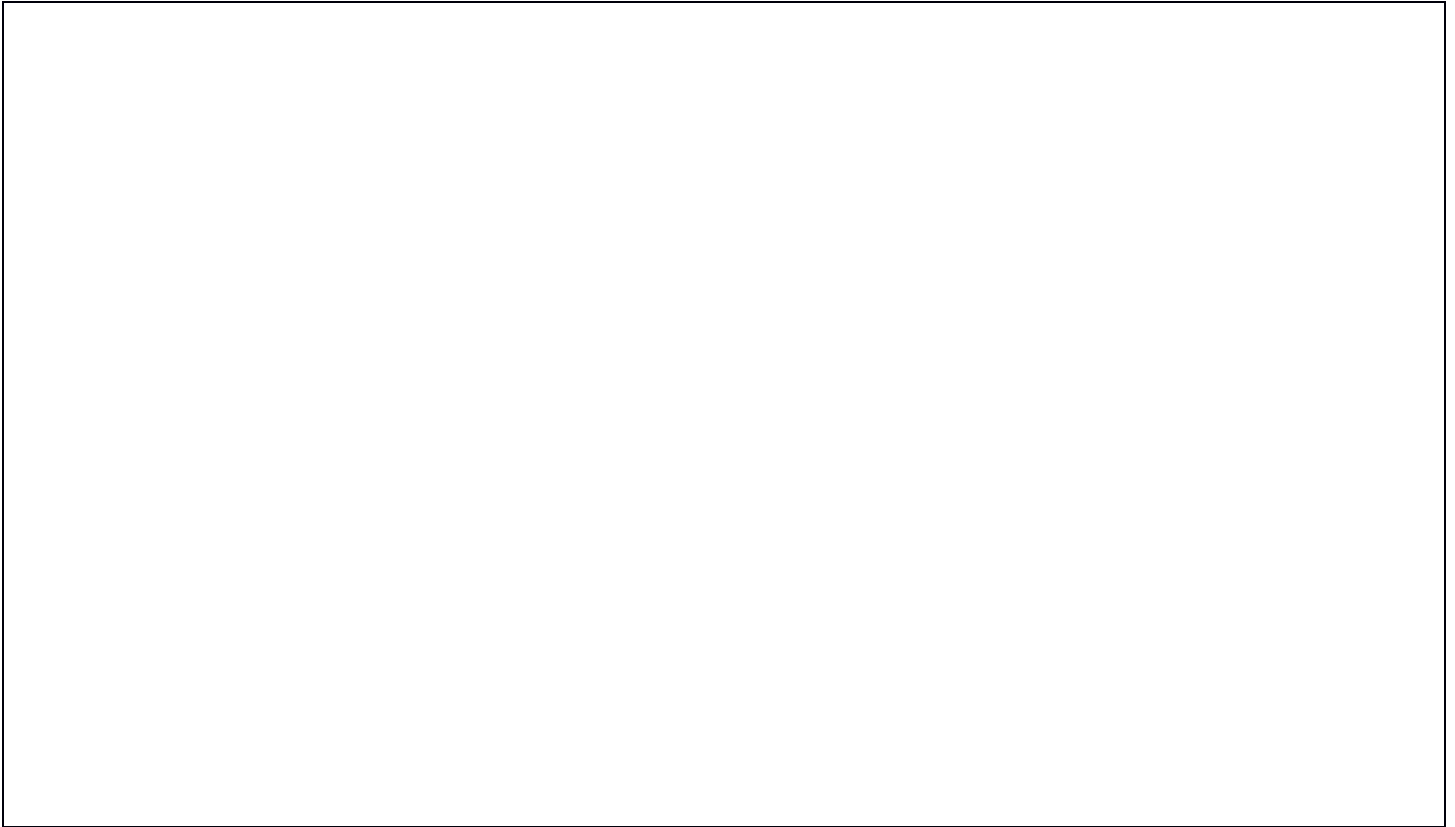
4.

5.

Part 1: Observing Lunar Features

1. Locate the Moon in the night sky. What is the current phase of the Moon? In what direction (N, S, E, W, etc.) and at what elevation (Horizon, Zenith, About half way up, etc.) is the Moon located?
2. Knowing the phase, approximately what time does the Moon rise? What time does it set? Explain your group's reasoning in determining this
3. Observe the Moon through a telescope. What types of features do you see? Describe the types of features you see in detail. How does the Moon's surface differ from Earth's? How are they the same?

4. Sketch a rough map of the lunar surface. Include at least 5 features you can see on the Moon. Also, make sure you mark where the terminator is located. After sketching your map, use the lunar map provided to label the cardinal directions on your Moon map, as well as the names of any features you included in your map.



5. What types of features did you include on your map? (craters, mountains, volcanoes, scarps...

