

Name: _____ # _____

Due date for project: _____



Observing the Night Sky

Full moon on January 16, 2014

For the next 2 months you will observe the night sky each evening after dark and record your findings. We will learn as we go about topics that will help your observations: Phases of the Moon, determining elevation using an Astrolabe, Constellations, etc.

Record the night sky by looking for the moon. Use the 'Astronomy Journal' pages. Look at the night sky and sketch what you see. Complete as much of the Journal entry page as you can.

Recording each night should take no more than 20 minutes. Try this:

- Carry a flashlight or work under an electric light (such as a porch light) to see your page
- Sketch what you see.
- Go inside and check your work, fix your drawing and fill in the sheet.
- This should take no more than 20 minutes (not including the hours and hours you could spend finding out fascinating information available online!)

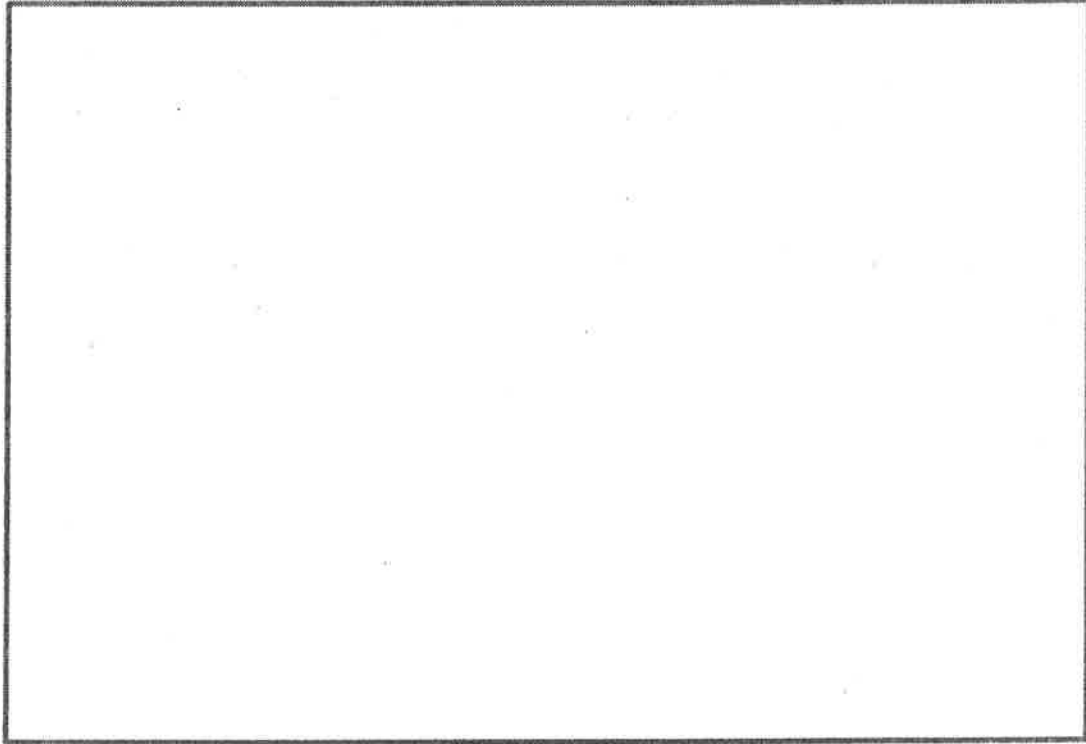
Direction: During the day use a compass or a map, or an online device to find out which cardinal direction you face at your house. Memorize this, "This oak tree is South. My neighbors are to the East..."

Elevation - start recording after our Astrolabe lesson complete.

Exceeds (mountain)	Meets (uphill)	Minimally meets (Straight Ahead)
-all entries are neat and complete + makes me say, "Wow!" -at least 30 entries over 5 weeks - entries show all 8 phases of the moon with accurate gradual changes - Night Sky Study Summary includes research, Bibliography	-all entries neat and complete -at least 20 entries that show all 8 phases of the Moon -shows at least 3 known constellations -shows growth in your powers of observation -includes Night Sky Study Summary (TBA)	-Something missing, such as most phases of moon shown -assignment late -messy -observations show little development in accuracy



My sketch of the night sky on _____ at _____, _____
[date] [time] [location]



Direction: _____

Lunar Phase: _____

Angle of Elevation: [use astrolabe, or hand method] _____

Weather conditions: _____

Constellations: _____

Stars named: _____

Planets [name and appearance]: _____

Other observations: _____

