

Astronomy 120 Spring 2019
Leitner Observatory Observing Exercise
SECTION I: Pre-Assignment (“Lab Ticket”)

NAME _____ DATE _____

Read all of the instructions for this exercise and **complete the lab ticket** before coming up to the observatory on the night you’ve signed up for observing.

The observing session will take place at the **Leitner Family Observatory and Planetarium** at 355 Prospect St, near the Betts House, and just north of Edwards St.
<http://maps.yale.edu/18/41.32115/-72.9222>

You can take the blue, orange, or red campus shuttle up to LFOP, or you can just walk up Prospect St. until you get to the LFOP driveway (just after Edwards St.). Walking from central campus should take 15-20 minutes (<https://goo.gl/photos/Na5JyYTgTSEhcmMR8>)

Lab Ticket: Answer these questions and turn in your answers to a Teaching Assistant when you get to the observatory. You won’t be allowed to complete the observing exercise and your presence will not be counted if you don’t turn in your lab ticket at the beginning of the session.



Go to the Skymaps website and download the Northern Edition sky map for the correct month:

<http://www.skymaps.com/downloads.html>

This sky chart shows the stars and planets visible in the New Haven sky in the early evening.

1. Using the information on the star chart, list the names of any planets above the horizon. Describe the location and phase of the Moon using the information on the left side of the page, plus tonight’s date, and extrapolate if necessary. Also list the constellations that the planets are in front of.

2. List the names of five bright stars that are above the horizon at 8pm on the night of your observing session.

3. How much more light does a 12-inch telescope collect compared to an 8-inch telescope? Explain your answer.