In this lab, you will be observing the motion of the moon over two periods of time. You will need to familiarize yourself with the method of approximating angles using your hand (page 135 of text).

Note the position of the moon relative to two fixed objects on the skyline. Note the time. Repeat the observation hourly for the next two hours. Estimate the angular change in position of the moon each time you make an observation. Record your observations in three diagrams showing the skyline objects and the moon. Repeat the observation for the next two nights at the same time as the first observation. Again measure the change in angle. Record your observation in three diagrams. Note that the first diagram will be the same in both sets. (The timing and angles should be as precise as you can manage).

Use the change in angle of the moon in one hour to calculate the rotation of the Earth. (360 degrees in how much time)

Use the change in angle of the moon over three days to calculate the revolution of the moon (360 degrees in how much time).

Turn in a lab write-up including your labeled diagrams and estimates of the rotation of Earth and revolution of the moon. Any lab write-up should include Purpose, Method, Results, and Analysis. Examples are available for review.