

information). The Azimuth/Direction is the point on the horizon in the direction of the Moon. For this assignment please use compass points for this value, for example, SW, SE, WSW, etc. **(Note: Both your altitude values and directionals should all be estimated by you and should not be gathered from any app or computer program. Any sketches should be done with a pencil).** Here is an example of your "Simple Sketch" that is shaded, and please make sure to include the tilt that you see!



2. When observing:

- a. If the sky is cloudy and you can't see the moon, simply write "CLOUDY" for the exception and put a line through that row and observe for one additional night (add a row) to make up for each night lost. You need to make up each "CLOUDY" night with an actual observation of the moon.
 - b. If you make some of your observations from a location more than 100 miles from where you started, please note the new location in that row. You may note this on the Exceptions line of the table or with each separate observation not made at the primary location.
 - c. If you will need to change the time of your observations when the moon is no longer visible at the the time you were observing. Please note the new time in the first column under the date. Depending on the Moon-rise and Moon-set times, you may need to switch from evening to morning observations.
3. For three of the dates that you make your observations, also make a detailed observation and sketch (using a pencil) of the Moon using binoculars or a telescope (making sure you can see the entire moon through your eyepiece). These observations and sketches may be made at a different time than the observations you make for the table. Try to make these detailed observations several days apart so that you are sketching noticeably different phases of the Moon. For these three observations you may not use an observation of when the moon is a very thin crescent. The phase must be 2 - 3 days before or after a New Moon (Note in your Course Schedule for when you will be asked to start your observations). See Exercise 2 for more details.

Table 1 - Observations of the Moon

Observation of the Moon Data Sheet