

Name _____ Grade Level _____

Teacher _____ School _____

Observing the Changing View of the Moon 4 – 12th Grades 2021/2022

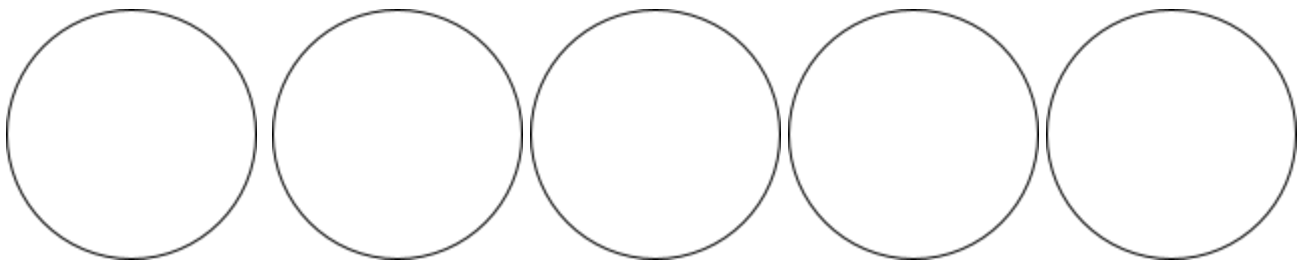
You will need to observe the Moon at the same time for 3 or more evenings within one of the windows below. Your three or more observations need to be within one of the date windows below.

1. Pick a spot facing south where you will go view the Moon **at the same time** each night.
2. On the first night draw how the Moon looks in the first circle and write the date. The lit side (day) of the Moon should be left white. Color in the dark or night side of the Moon. If it is cloudy, you can't record data, so try the next night. You need 3 nights of seeing the Moon.
3. Next, draw a circle on the east-west line to show where the Moon is in the sky and write the date of the observation.
4. Draw how the Moon looks in the next circle and write the date.
5. Observe the Moon on the second night from the same spot, **at the same time**. Draw the Moon on the same east-west line and label it with the date. Did it "move?"
6. Repeat for at least one more night and answer the following questions.
 - Does the Moon seem to move? If so, how?
 - Does the Moon seem to change shape? Why?

Dates to view: Sept 11-20, Oct 11-20, Nov 10- 19, Dec 8-18, Jan 8-17, Feb 6-16, Mar 8-18, or Apr 7-16

These are days in the Lunar Cycle when the Moon is up at a reasonable hour for students to be observing – from about 1st quarter to full. You only need do 3, but may choose to do more.

Time _____



Date _____

East _____ West

You must complete at least 3 sets of data, show the location of the Moon on the chart, and answer the questions above to earn the certificate. **Return to your teacher or email completed sheets to srigsby@bmtisd.com**