

## The Honesty and Burkhart Oreo Lab

Name: \_\_\_\_\_

Materials: Eight Oreos (Original or Cream), Paper Plate, Plastic Fork/Knife

Grouping: 2 Individuals per Lab

Objective: First and foremost...to have a fun lab with Oreos... and..less importantly... learn about the phases of the Moon. Including the New Moon, Waxing Crescent, 1st Quarter, Waxing Gibbous, Full Moon, Waning Gibbous, 3rd Quarter, and the Waning Crescent.

For this lab, the Oreo cream is the lit part of the moon and the cookie part of the Oreo is the dark side of the moon.

*Remember: The Light starts on the right (side of the moon)*

Instructions:

1. Find a partner then grab: four Oreos, a paper plate, and a plastic knife.
2. Create the first phase, the new moon phase, of the Moon and have it checked by Mr. H.
3. Once you have your first phase, the new moon, place it on your plate at the starting point. (the top) Label your new moon phase on/next to your plate.
4. Use the knife is to carve out the second phase of the moon, the waxing crescent. Once you have the outline of the waxing crescent carved out, carefully break the part that isn't dark to expose the cream, a.k.a the lit part. Now place your "waxing crescent" and place it on the plate in a counterclockwise direction.
5. Continue to carve out the six remaining moon phases making sure to leave the appropriate parts lit or dark. Also, make sure that to continue to place your moon phases on the plate in a counterclockwise circle, label the phases, and draw arrows in the direction the moon cycle goes.

### Follow-up Questions:

1. What are two factors that cause the phases of the moon?
2. How long is the average moon cycle?
3. When does a solar eclipse occur? A lunar eclipse? (Feel free to draw a picture)
4. What did the Oreos and the cream depict?

5. Which side of your plate are the waxing and which side are the waning?

*Having issues remembering the order of the phases? Remember "DOC".*

*- The capital "D" has an arch to the right. The right-hand side is illuminated: First Quarter Moon.*

*- The capital "O" represents the full moon.*

*- The capital "C" has an arch to the left. The left-hand side is illuminated: Last Quarter Moon.*