

## Moon Phases: Oreo Lab



### Materials:

Oreo cookies      toothpick      Paper towel

### Precautions:

**DO NOT EAT THE OREOS** unless your teacher tells you to do so.

Clean up all broken or dropped Oreos immediately.

Horseplay will result in the cancellation of this lab and an alternate assignment.

### Laboratory Procedure:

1. Each student will receive only **2** Oreo cookies.
2. Separate each of your cookies carefully, so that one side of the cookie has **ALL** of the frosting and the other side of the cookie has **NO** frosting.
3. The LEADER will make a New Moon and the next phase.
4. The person to the RIGHT of the LEADER will make the next two phases, then the next person will do the next two going clockwise around the moon phase circle (see board for diagram).
5. Leave cookies on your napkin and label the moon phase at the bottom of your napkin.
6. Place all napkins in the center of the table so everyone in your group can see.
7. Draw in the diagram on the back of this sheet.
8. TAKE A PICTURE WITH YOUR SMART PHONE
9. When teacher checks Oreos, you may eat YOUR 2 Oreos.

### Clean Up Procedure:

1. When instructed, you LEADER will collect all of your trash.
2. When finished eating, your teacher will call on table groups to go and get water and come back.
3. Start working on conclusion questions below. One Lab sheet will be turned in for EVERY person.

### Questions: Please use complete sentences.

1. Describe the process that causes the moon to appear as these different phases.
  
  
  
  
  
  
  
  
  
  
2. How does it take the moon to go through one full cycle of phases (use your notes as needed)?
  
  
  
  
  
  
  
  
  
  
3. Why does the same side of the Moon always face Earth?
  
  
  
  
  
  
  
  
  
  
4. Why don't solar and lunar eclipses happen every single month?

**Diagram**

After you complete the lab, draw each phase of the moon. Position 1 would be the new moon, ending with position 8 as the waning crescent.

**Draw the SUN and EARTH.**

**Which direction would the Sun's light be going in this model?**

