

GirlsGotSTEAM: Oreo Cookie Moon Phases

Program:	Moon Phase Delights!
Age Range:	9-11
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Description :	Let's learn about the natural satellite that orbits our planet! Step 1: Gather materials; Step 2: Make shapes in your cookies; Step 3: Learn; Step 4: Eat!

NOTE TO INSTRUCTOR: This lesson plan is an OUTLINE - use it as you will to execute your workshop. Feel free to add and remove material as needed. Attached is a PowerPoint to use during your activity.

The PowerPoint will include pictures, additional information, and instructions. It **SHOULD NOT** be the primary resource to run the workshop. Please refer to the lesson plans for detailed instruction. If you have any questions, comments, or concerns about any information in this workshop, please email girlsgotsteamorl@gmail.com

Time	Objective	Component
Block 1: Introduction	Students should be introduced to the different moon phases and their names.	Activity: Introduction (PowerPoint)
Block 2: Make	Students should use the picture and Oreos to model the moon phases on their plates.	Activity: Make a model
Block 3: Reflect	Students should end by reflecting on the concept of the moon phases.	Activity: Discussion

Materials

NOTE TO INSTRUCTOR: The materials listed below are required to complete this activity. The worksheets can be found in this lesson plan.

Paper Plate • Oreos (8 per child) • Marker • Plastic Knife, Fork, or Spoon



Block 1: Introduction

• Activity: Introduction

- To begin, it is important that you and your students understand what the different moon phases are. Refer to the PowerPoint during this section. We have included a video and a picture for reference. Please watch and learn before you begin this activity for your students!
- Have you ever heard of the different phases of the moon? The phases are Full Moon, Waxing Gibbous, First Quarter, Waxing Crescent, New Moon, Waning Crescent, Third Quarter, and Waning Gibbous.
- Show the video provided on the PowerPoint. If there are other references you would like to show your students, please do so.

At the end of this block, the students should have an understanding of what the moon phases are, what they look like, and how to name them.

Block 2: Make

• Activity: Make a Model

***We recommend you create a model for your students to physically see before they create their own.**

- Open up the pack of Oreos and twist 8 cookies apart carefully
 - Use the edge of a fork to draw a line down the center of the icing, carefully scrape off half of the icing, and set onto the top of the paper plate to begin your first quarter Moon cycle
 - Work from left to right on your moon cycle. Use the fork to draw the line, scrape off the icing, and set on the left of the first quarter Moon.
 - Work your way around: look off of the picture!
 - Once all of the Moons are on the plate in a circle, carefully draw the Earth in the center with markers.
 - Draw arrows to show the flow of the phases in order!
 - Use a marker to write which Moon phase each cookie represents next to each model.
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Block 3: Reflect

This should be the last block in the day. At this point, instructors should start a discussion to hear the student's thoughts and opinions. Furthermore, instructors should once again emphasize the different types of moon phases. We have included sample discussion questions in the PowerPoint. Feel free to add more if you would like.



- **Activity: Discussion**

- The class should discuss the process they used to make their models and find out how each phase looks. What was hard about making the model? Which phases were easy to label?
- **NOTE TO INSTRUCTOR:** Discussion should be fun, interactive, and detailed. Please ensure that students understand the objective of this workshop.

We hope your students will enjoy exploring the different moon phases using Oreos! Thank you so much for using GirlsGotSTEAM's resources for your workshop - our team would be beyond happy to provide you with more free and enjoyable lesson plans in the future! For any questions, comments or concerns, please email girlsgotsteamorl@gmail.com or DM us @girlsgotsteam on Instagram!

