

Moon Madness

Get excited about space when we explore the phases of the moon, the spin of the earth, and the reason for the seasons!

SUMMARY:

In this class, children recreate a solar and lunar eclipse and learn why the moon can appear different at different times. Students will also learn the names of different moon phases, and what causes day and night!

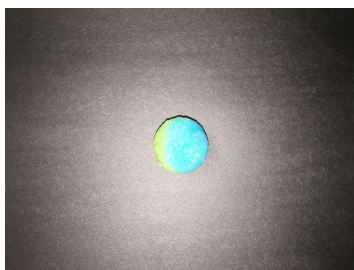
EDUCATIONAL VALUE:

This workshop provides students with an opportunity to experiment with eclipses and learn just how far away our moon is. They will experiment to see both how the earth turns, causing day and night, and how the moon moves in relation to the earth. Hands-on activities encourage students to interact with the concepts presented. This lesson provides an opportunity to develop scientific skills through inquiry based instructional methods.

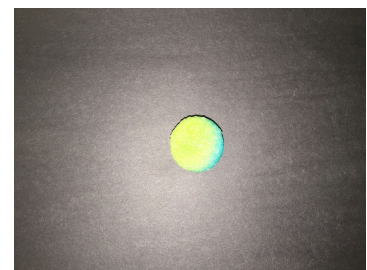


TAKE-HOME MESSAGE:

- 1 The Earth rotates on an axis, causing day and night.
- 2 The moon rotates and revolves around the Earth, waxing and waning.
- 3 The phases of the moon are: New Moon, First Quarter, Full Moon, and Last Quarter.



TAKE-HOME PRODUCT:
Mad Science® Moon Ball



North Carolina Essential Standards:

Explain the causes of day and night and phases of the moon.

- 4.E.1.1 Explain the cause of day and night based on the rotation of Earth on its axis.
- 4.E.1.2 Explain the monthly changes in the appearance of the moon, based on the moon's orbit around the Earth.