



## SfS Away from the Classroom!

### ES07: Celestial Mechanics (Recommended for Grades 3-5)

Please use the following resources to learn about our moon and its phases.

Watch this Video: <https://www.youtube.com/watch?v=NCweccNOaqo>

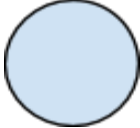


#### Answer these questions:

- How much of the moon is always lit up by the sun?
- How long does it take for the moon to orbit the earth?
- Name the 8 phases of the moon.

**Activities:** Go to this link and find the moon phase on the day you were born:

<http://www.briancasey.org/artifacts/astro/moon.cgi>

Draw the moon phase below and name the phase the moon was in. Use the same link to find the moon phase on another special day. For a challenge, find one date of a full moon using this tool.

Date	Drawing of the moon phase	Name of the moon phase
Your birthday: _____		
Another day: _____		
Full moon: _____		Full Moon

## **Make observations & use Claims, Evidence, and Reasoning!**

1. **Claim:** The moon goes through 8 phases each month.

- **Evidence:**

- **Reasoning:**

2. **Claim:** A new moon is when the moon is closest to the sun in its orbit around the earth.

- **Evidence:**

- **Reasoning:**