



# Daisy Space Science Explorer

**Pillar:** STEAM

**Outcomes:** Display a strong sense of self.

**Daisies will earn their badge by:**

## 1. Explore the Sun

- a. Meet the Sun; our galaxies very own Star! - <https://spaceplace.nasa.gov/sun-heat/en/>
- b. Make Sun Paper
  1. We see it every day in the sky. Our sun is a burning ball of superheated gas. Even though it's 93 million miles (149.6 million kilometers) away, we can feel its heat and light on Earth. Make this marbled paper that looks just like our sun.
  2. Find Directions Here: <https://spaceplace.nasa.gov/sun-paper/en/>
  3. *Make it your own!!* Stars exist in a range of colors: red, orange, yellow, green, white and blue with red being the coolest and blue being the hottest. A star's color indicates it's
    1. Temperature – How Hot or cold it is
    2. Composition – What it's made of
    3. Distance – How far away it is from Earth
    4. Luminosity - indicates its size, the brighter it is, the larger it is.

## 2. Observe the Moon

- a. Meet the Moon!! Earth's very own Satellite - <https://moon.nasa.gov/>
- b. Check out this cool coloring sheet and learn about the phases of the moon and other cool stories of the galaxies. - <https://www.invent.org/sites/default/files/file-upload/2020-03/George%20Alcorn%20Activity%20Page-noPromoCode.pdf>
- c. Oreo Moon Phases - Check out this awesome snack that you can do to learn about the phases of the moon! <https://sciencebob.com/oreo-cookie-moon-phases/>

## 3. Meet the Stars

- a. People had already imagined that the constellations might be important symbols, telling stories of their gods and other myths. It was not a big step to suppose that the changing positions of the constellations at different times of the year might be important to people and events on Earth.
- b. Learn some stories! Read the story of Delphinus the Dolphin or the Story of Pisces the Fish. Some of the stories of the Greek and Russian constellations are not exactly "bedtime stories." Here are some that we screened and recommend retelling to help get some inspiration! Make up a constellation and your own constellation story! Is it your favorite animal or superhero? Use construction paper and markers or take your adventure outside and use some sidewalk chalk.
  - Delphinus the Dolphin
  - Pisces - The Fish
  - Libra - The Scales
  - Gemini - The Twins
  - You can find some of the stories here –
    - Find All of these Star Stories and More Here: <http://www.tcoe.org/scicon/instructionalguide/constellations.pdf>

- c. Marshmallow Constellations – For an educational and creative snack experience grab some toothpicks, mini marshmallows and a big plate to create your night sky! You can use constellations for inspiration HERE - <https://stardate.org/nightsky/constellations>

Online additional resources:

<https://www.nasa.gov/specials/nasaathome/index.html>

<https://www.nasa.gov/nasa-at-home-for-kids-and-families>

<https://spaceplace.nasa.gov/>

Our wonderful community partner, The Arvin Gottlieb Planetarium, has live and recorded Facebook videos studying the sky, constellations, planets, and more <https://www.facebook.com/watch/KCplanetarium/>; check them out!

**When you're finished:** Congratulations, you have earned your badge! You can purchase by emailing [shopdept@gksmo.org](mailto:shopdept@gksmo.org) or at <https://www.girlscoutshop.com/Daisy-Space-Science-Explorer-Badge>

No shipping charges apply at this time.

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