



Space
Science
Expert



Badge Overview

Explore light and discover what it teaches us about the Universe! When you've earned this badge, you'll understand more about the Universe—your place in it and how light is used to make discoveries about it.

Badge Components

1. Uncover the stuff you're made of

We are made of stardust! Watch these two short videos to find out how this is true.

- [Video 1](#)
- [Video 2](#)

2. Explore the brilliance of the stars

Use your creative skills to design and create a fun and educational high school level Coloring sheet on the life cycle of a star.

- You can use the examples of other high school level coloring sheets on different subjects in the [Coloring Sheet Examples PDF](#) for inspiration and you can use the [Lifecycle of a Star Poster PDF](#) or this [website](#) to help with the details.

3. Discover telescopes as light collectors

Make your own telescope using these [instructions](#).

- Go to this [website](#) to learn how telescopes work and these [websites](#) on the Hubble Telescope to explore its importance and history.
- [Website 1](#) and [Website 2](#)



4. Find the light in the darkness

Download one of these augmented reality star gazing apps and go outside at night and see what you can see! Try using your homemade telescope to see a little more.

- [Star Chart](#) app (Android)
- [SkyView](#) app (iPhone)

5. Share your knowledge

Create a short video to share your research with others.

- Include the following information: How a telescope works, the history and discoveries of the Hubble Telescope and its importance, what you can see in the night sky and how to find it, so other girls who see your video will be inspired and have enough information to go outside tonight and reach for the stars!
- Share your masterpiece with someone; you could share it with someone in your family, post your video on social media (check with an adult first) and tag Girl Scouts of Southeast Florida or e mail it to us so we can see what you are doing and maybe share it on our social media.

Materials

- [Coloring Sheet Examples PDF](#)
- [Lifecycle of a Star Poster PDF](#)
- Lens from an old pair of reading glasses
- Scissors
- 2 Paper towel tubes
- Duct Tape

Florida Educational Standards

The content of all Girl Scout national proficiency Badges and Journeys have been correlated by grade level to national and state learning objectives.

[Click here](#) for more information on how Girl Scout Badge-work supports Florida's educational standards.

We love to see Girl Scouts in action. Snap a photo and send it to marcomm@gssef.org.

Include her name, troop# and the name of the badge she's working on and we'll feature her.

Finished with your badge? Now buy it for your Girl Scout Uniform. Order online at <https://www.girlscoutshop.com/SOUTHEAST-FLORIDA-COUNCIL> and we'll ship it for free.

Questions? Contact customercare@gssef.org

