

Girl Scout Space Science Badges

There are 6 Girl Scout Space Science badges, one for each Girl Scout level.



Daisy
K-1
Elementary



Brownie
2-3
Elementary



Junior
4-5
Elementary



Cadette
6-8
Middle



Senior
9-10
High School



Ambassador
11-12
High School



To earn a badge, a Girl Scout completes at least one activity from each of five badge steps. Each step offers three activity choices. The one exception is the Daisy badge, which has 3 steps, each with 2 activity choices.

Badge overviews & links to badge booklets are available on the [Girl Scout Badge Explorer](#). Registered GS volunteers can access free badge requirements, meeting scripts, activity plans & more through the GS Volunteer Toolkit.

FAQs

Is there a test?

No. Girl Scout awards and badges are a great way for a girl to explore her interests, learn new skills, and share what she's accomplished. When a Girl Scout completes one activity from each badge step for her level, she's earned her badge.

How long does it take to earn a badge?

The badges were designed to be completed over three 90-minute in person troop meetings. Each activity choice takes about 20 minutes, although some activities are

girlscouts My Award and Badge Explorer	
AWARD/BADGE	DESCRIPTION
Space Science Explorer Daisy (Grades K-1) STEM	Explore and observe the sky like a real space scientist. 1. Explore the Sun. 2. Observe Planets. 3. Meet The Stars. When you've earned this badge, you'll have explored and observed the Sun, Moon, and stars. GET THIS BOOK
Space Science Adventurer Brownie (Grades 2-3) STEM	Investigate the complexities of the sky as you learn to see things in a new way. 1. Meet the night sky. 2. See how things change. 3. Observe the Moon. 4. See the planets. 5. Discover what's new. When you've earned this badge, you'll know how to investigate the Sun, Moon, planets, and stars. GET THIS BOOK
Space Science Investigator Junior (Grades 4-5) STEM	Venture through the Solar System and beyond, and see that space is even bigger than you may have thought! 1. Meet the Solar System. 2. Discover the Sun. 3. Explore the Planets. 4. See the stars to explore. 5. Meet your sky. When you've earned this badge, you'll understand that the Earth orbits the Sun, and how the stars in the Sun, Moon, planets, and stars are from our home space, Earth. GET THIS BOOK
Space Science Explorer Cadette (Grades 6-8) STEM	Observe and explore light, deepening your understanding of the Sun, stars, and other objects in space. 1. What does light do? 2. Explore "invisible" light. 3. See the stars in our night sky. 4. Explore your vision. 5. Observe the night sky. When you've earned this badge, you'll understand more about the energy properties of light and how you use it to make discoveries about the universe and space science. GET THIS BOOK
Space Science Master Ambassador (Grades 9-10) STEM	Explore, observe, design, and communicate your space science discoveries just for scientists and engineers. 1. Observe and understand Earth. 2. Discover how light is science. 3. Explore your interests. 4. Design your mission. 5. Share what you learned. When you've earned this badge, you'll understand more about space science and how you can be part of what's new and in the future. GET THIS BOOK
Space Science Expert Senior (Grades 11-12) STEM	Explore light and discover what it teaches us about the universe. 1. Understand the light energy made of. 2. Observe the properties of the stars. 3. Observe and understand the light collection. 4. Find light in the universe. 5. Share your knowledge. When you've earned this badge, you'll understand more about the universe your place in it and how light is used to explore space discoveries about it. GET THIS BOOK

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engaging for far more time. While badges can be completed more quickly, remember that earning a badge is about the experience, not a checklist.

What do girls do?

Daisies who earn the Space Science Explorer badge observe the Sun, Moon and sky.

Brownies who pursue the Space Science Adventurer badge dig into the Solar System, Moon phases, constellations, and share their findings.

Juniors who earn the Space Science Investigator badge explore the planets, celestial motion, the three-dimensional nature of a constellation, and develop models that explain the size and scale of our Solar System.

Cadettes who earn the Space Science Researcher badge will investigate properties of visible and invisible light and observe the night sky.

Seniors who pursue the Space Science Expert badge will classify stars, study their life cycles, and experiment with astronomical imaging.

Ambassadors will dive into a research project, look at worlds beyond Earth, and learn about women who work in NASA's Science Mission Directorate as they complete the Space Science Master badge.

Do the steps need to be completed in order?

The first four badge steps can be completed in any order. The fifth badge step focuses on sharing what girls have learned, so should be completed last whenever possible.

Do I need anything special to lead a badge?

The main things you need are the badge requirements, enthusiasm, and a plan. Some activities call for common household materials like drawing supplies, while a few offer chances to use a computer or take a field trip. Every step has a free option.

Do I need to be an expert?

No - these badges were designed and tested with diverse Girl Scout leaders in mind. The badge steps can be completed following the badge booklets alone. Registered Girl Scout leaders also have access to meeting scripts and badge support resources in the Volunteer Toolkit - aka VTK.

Don't know something? Look it up together using a trusted resource like <https://nasa.gov> or <https://spaceplace.nasa.gov/>

Are the badges fun?

Based on pilot troop feedback and badge sales from the past few years, they are! You can ensure earning a badge is fun by following the 3 Girl Scout processes, keeping things Girl-Led, Learning by Doing, and Cooperative Learning.

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Thank you for all you do for girls!