

Star Gazer



Objectives:

Girls will discover astronomy, and all the things that can be found in the night sky, by completing the requirements of this patch program.

Grade Level Requirements:

To earn this patch, everyone must complete requirements 1, 2 and 3. Each grade level must also complete the minimum number of additional activities.

Grade Level	Required Item #s	Additional # of Requirements
Daisy	1, 2, 3	2
Brownie	1, 2, 3	3
Junior	1, 2, 3	5
Cadette	1, 2, 3	7
Senior/Ambassador	1, 2, 3	8

Requirements:

1. Observe the stars in the night sky (or at a planetarium) and identify at least three constellations.
2. Listen to or read a story or myth behind at least two constellations. Find the constellations in a book or in the sky.
3. Identify and learn about two females who contributed to the field of astronomy.
4. Make a planisphere (also known as a star wheel or star chart). Use it to help identify the stars and constellations in the night sky.
5. Find the North Star through a telescope.
6. Using a real constellation, draw a figure connecting many of the stars in a new way and create a legend to go with it. Share your story with your group or another group.
7. Read about the Hubble telescope. How is it different from a telescope you would use in your own backyard to look at the stars? How is it the same? What is the Hubble telescope's purpose in space?
8. Look at images from the Hubble telescope and create a piece of art inspired by one of the images.
9. Learn about moon myths from at least two cultures.
10. Name the parts of a comet.
11. Different types of telescopes can show you different kinds of information. Learn about the different kinds telescopes. You can visit the Cosmic Colors Viewer on NASA's website to see how images taken of the same thing can change depending on what kind of instruments were used. Visit spaceplace.nasa.gov/cosmic-colors/en/.
12. Learn how to use a sundial and make one.
13. Identify the star closest to earth and list five facts about it.
14. Name the planets in the solar system in order.
15. Make the solar system to scale—it can be a drawing, a model or a 3D piece of art.
16. Attend a council event related to space or astronomy.
17. Identify two college-level astronomy courses that are offered at a college or university near you.
18. Identify one astronomy-related career. Find out what type of education you would need to get the job, what typical job duties it would entail and what the salary range would be.
19. Create a piece of art in any medium inspired by something found in the night sky.
20. For Cadettes, Seniors or Ambassadors: Develop and/or lead an activity or event where you help younger girls meet one of the other requirements for this patch.