

Reaching for the Stars Patch Program



Looking into the night sky can make us feel very small, but it also shows us how we are all connected under the same stars. On any given night, a friend or family member far away may be looking at the same moon and constellations you are seeing. Celebrate the unity our night sky inspires by completing this patch program!

INSTRUCTIONS

Complete the required number of activities based on your Girl Scout level, choosing from the list below. Upon completion, patches may be purchased from [Juliette's Boutique](#).

NUMBER OF ACTIVITIES SUGGESTED FOR EACH GIRL

DAISY	BROWNIE	JUNIOR	CADETTE	SENIOR	AMBASSADOR
2	3	4	5	6	7

ACTIVITY OPTIONS FOR ALL GRADE LEVELS

- 1. Go outside at night and observe the stars.
- 2. Identify at least two constellations from your backyard.
- 3. Make a star wheel (star chart) and use it to identify the stars and constellations in the night sky.
- 4. Learn about light pollution and how it affects our view of the night sky.
- 5. Make your own constellation from your view of the night sky and come up with a story about it. Share your constellation legend with a friend, your family, or troop.
- 6. Find the North Star.
- 7. Learn about the history of space exploration.
- 8. What happens to space junk? Do we know how much we have polluted the space around our planet?
- 9. Learn about the James Webb Space Telescope. How is it different than the Hubble Space Telescope?
- 10. Search for deep space images and create a piece of art inspired by one.
- 11. Learn the difference between a planetarium and observatory.
- 12. Make a sundial. What cultures first used sundials? Are there any ancient sundials still standing today?

- 13. Make a diagram of a comet and label all its parts.
- 14. Learn how to use a star map.
- 15. Learn about Girl Scouts Spirit of Nebraska's Beyond Our World Astronomy Clubs. How do you join? Where are the clubs located?
- 16. Learn about moon phases. Where did they get their names?
- 17. Discover ancient cultures that were influenced by the moon. What myths about the moon are still passed down today?
- 18. Discover if the moon phases look different from the Southern Hemisphere.
- 19. Examine the stars of the Southern Hemisphere. Identify three constellations and share their myths with friends, family, or your troop.
- 20. Learn how two different cultures interpret the beginning of the universe.
- 21. Identify the closest earth-like planet to Earth. What is its name and how big is it compared to Earth?
- 22. Recreate the solar system as a model or drawing.
- 23. Identify three constellations from each of the four seasons: winter, spring, summer, and fall.
- 24. Name five women who made a significant impact in astronomy. Who were they? Was being an astronomer their formal employment?
- 25. Create a piece of art in any medium inspired by something found in the night sky.
- 26. Host a star party with friends, family, or your troop.
- 27. Help a younger Girl Scout find the Big Dipper.
- 28. Find out which of the eight planets are visible to the naked eye. Try to locate at least one of these.
- 29. Learn why Pluto is no longer considered a planet.
- 30. Learn about nebulas. Which one is closest to Earth?