



Girl Scouts – Mt. Wilson Vista Council

Night Sky Girl Scouts Patch Program

For: Daisy, Brownie, Junior and girls 11 – 17

When: The Night Sky Girl Scout patch program may be completed at any time, after an adult affiliated with the troop completes the Telescope and Exploring the Solar System training sessions.

Purpose: To:

- Familiarize Girl Scouts with the night sky.
- Familiarize Girl Scouts with NASA and JPL.
- Encourage girls to work together to complete a patch program.

Program: The requirements for completing the patch program are on page 2. Upon completion of the requirements, return the enclosed evaluation and patch order form by mail or in person to Girl Scouts Mt. Wilson Vista Council, 101 E. Wheeler Avenue, Arcadia, CA 91006, Attention: Council Shop.

Before you begin: Night Sky Girl Scouts is a collaboration between Girl Scouts – Mt. Wilson Vista Council and JPL with the intent to train adults to provide education about the night sky for girls. Troop leaders and/or troop adults must take two training sessions before the girls can participate in the Night Sky Girl Scouts Patch Program. Check the *Program and Training News* for adult training dates. After adults are trained, the troop may participate in other exciting night sky programs as they become available.

Questions: Contact Girl Scouts - Mt. Wilson Vista Council at (626) 445-7771, ext. 311 or 312.

*Upon completion of this program, fill out the attached form.

Night Sky Girl Scouts Patch Program Requirements

Adult Training Prerequisites:

- Telescope training
- Exploring the Solar System training

All Age Levels Complete These Requirements:

1. Participate in an event involving members of NASA's Night Sky Network. This can be a troop, Service Unit or Council event. Learn why NASA puts telescopes in space and how scientists look for other planets.
2. Participate in Jet Propulsion Laboratory (JPL) annual open house (in May) or arrange a troop tour by going to: <http://www.nasa.gov/psd/pt.html> or by calling 818-354-9314.
3. Check out the council's telescope and spend an evening looking at the night sky. Are there any planets that are visible from earth? Which one(s)? Try to locate at least one with the aid of the telescope. What else can you use to aid in viewing the night sky?

Additional Activities:

Daisy and Brownie Girl Scouts:
complete 2 additional activities

Junior Girl Scouts:
complete 3 additional activities

Girls 11 –17:
complete 5 additional activities

1. What is the difference between a planetarium and an observatory? Visit one or the other. Suggestions: Garvey Ranch Observatory 751 S. Orange Ave., Monterey Park. Open for public viewing every Wednesday evening from 7:45-10pm FREE. www.laas.org/grpark.html. Griffith Observatory located in the northeast corner of Griffith Park – currently closed for renovation. Will re-open May 14, 2006. www.griffithobs.org/. Daniel B. Millikan Planetarium at Chaffey Colleg, 5885 Haven Ave., Rancho Cucamonga. 909/941-2758. Visit www.chaffdfey.edu/planetarium/public.html. Pasadena City College Planetarium 1370 E. Colorado Blvd., Pasadena, 626/585-7322. Has 30 foot dome and 50 seats. E-mail: jspepikas@paccd.cc.ca.us Glendale College Science Center Planetarium 1500 N. Verdugo Rd., Glendale, 818/240-1000x5387. Has 30 foot dome and 48 seats. Please visit these sites for additional information: www.at-la.com/@la-astro.htm#observe and <http://www.smc.edu/planetarium/planetaria.html>

2. Visit NASA's website (www.nasa.gov) to learn about one of the current missions. Be sure to visit the NASA Kid's link and Planetquest link.
3. Check out the Moon and Stars Kit from the council office (\$25 deposit, see receptionist) and complete at least 3 of the activities included.
4. Learn about comets. Make a Comet-on-a-stick, learn the Comet Song, or make Comet Ice Cream.
5. What are the educational requirements for three of these careers: Astronomer, Meteorologist, Engineer (Biomedical, Industrial, Optical), Chemist, Metallurgist, Photographer, Ceramist, Astronaut, Educational Outreach Specialist. How are they linked to the space program?
6. Make and fly several different kinds of paper airplanes, gliders, or kites.
7. Design a postage stamp that celebrates the night sky.
8. Ancient cultures, such as: Greek, Norse, Native American and Chinese, explained the night sky through stories. Find and read one story.
9. Find out about three women astronomers. Who are they? What do they do? Find out three interesting facts about each.
10. Design a library exhibit about space and astronomy for your school or community library.
11. Visit the NASA/JPL Educator Resource Center, Village at Indian Hill, 1460 East Holt Blvd. Suite 20, Pomona, CA 91767. The Educator Resource Center is open 8:00am to 4:30pm on weekdays and one Saturday a month from 8:00am – 12:00pm. Call 909/397-4420 for directions.
12. Make a list of at least five ways that you can maintain your interest in space and/or astronomy. Make a similar list of related places to visit or activities you might like to do in your community. Make a similar list of Internet sites to visit.

Night Sky Girl Scouts Patch Program Program Links

Brownie Girl Scout Try-Its

- Movers
- Earth and Sky
- Careers

Junior Girl Scout Badges

- Aerospace
- Sky Search
- Careers

Cadette/Senior – Girls 11-17 Interest Project Awards

- Space Exploration: Skill Builders, Technology, Service Projects, Career Exploration

Night Sky Girl Scouts Patch Program Evaluation and Patch Order Form

To receive your patches, please complete the evaluation and order form. You can purchase the patches at the council shop or through the mail. The cost per patch is \$1.75. If you are returning this form through the mail, attach your troop check and mail to:

Night Sky Girl Scouts Patch Program/Girl Scouts - Mt. Wilson Vista Council
101 E. Wheeler Avenue, Arcadia, CA 91006
Attn: Council Shop

Troop # _____

☐ Daisy ☐ Brownie ☐ Junior ☐ girls 11 - 17

Leader's Name _____ Phone _____

Address _____ City _____

Zip _____

Total number of girls completing this program _____.

_____ patches @ \$1.75 ea. = \$_____

Assisted by _____ leaders and/or adults.

Adult trained in Telescope _____

Date taken _____

E- mail: _____

Adult trained in Exploring the Solar System _____

Date taken _____

E-mail: _____

1. Circle your overall opinion of the Night Sky Girl Scouts Patch Program.

Excellent

Good

Fair

Poor

2. Listed below are some of the purposes of this patch program. Circle the word that best describes to what degree each purpose was met.

- a. Familiarized girls with the night sky.

Excellent

Good

Fair

Poor

- b. Familiarized girls with NASA and JPL.

Excellent

Good

Fair

Poor

- c. Encouraged girls to work together to complete a patch program as a troop.

Excellent

Good

Fair

Poor

3. Which additional requirements did the troop complete (please check)?

☐ 1

☐ 4

☐ 7

Which observatory/planetarium did you visit?

☐ 2

☐ 5

☐ 8

☐ 3

☐ 6

☐ 9