



Cub Scout Astronomy

Cub Scout Academics and Sports Workbook

This workbook is not required but can help you with this award. Belt Loops and Pins may be earned more than once.

Links to other workbooks and resources are at the end of this workbook: [Online Resources](#).

Send comments to the workbook developer: craig@craiglincoln.com. Workbook updated: April 2008.

Scout's Name: _____

Pack: _____

Cub Scout Astronomy Belt Loop (See the [Pin Requirements](#) below.)

Complete these three requirements:

1. Set up and demonstrate how to focus a simple telescope or binoculars. _____

2. Draw a diagram of our solar system--identify the planets and other objects.

3. Explain the following terms: planet, _____

star, _____

solar system, _____

galaxy, _____

the Milky Way, _____

black hole, _____

red giant, _____

white dwarf, _____

comet, _____

meteor, _____

moon, _____

asteroid, _____

and universe. _____

Cub Scout Astronomy Pin

Earn the Cub Scout Astronomy belt loop, and complete five of the following requirements:

1. Draw a diagram of a telescope and explain how it works.

2. Locate and identify five constellations. You may use a telescope.

3. Using a telescope, find at least one planet and identify it. _____

4. Find the North Star. Explain its importance. _____

5. Interview an astronomer. _____

Learn about careers that relate to Astronomy. _____

What school subjects will help you get a job in astronomy? _____

6. Visit an observatory or a planetarium. Give a report on what you learned to your den. _____

7. Make a poster illustrating the different kinds of stars. Include a diagram showing the life cycle of a star. _____

8. Learn about some of the early space missions. Tell your den or family about one of them. _____

9. Find a current event about a recent happening related to space. Tell your den or family about this event. _____

10. Make a chart to show the phases of the moon over a two-month period.

Define a blue moon. _____

11. Write a report on two famous astronomers. _____

12. Locate three major observatories on a map.



Explain why these locations are good for astronomy. _____

Online Resources (Use any Internet resource with caution and only with your parent's or guardian's supervision.)

Cub Scout Advancement: <http://usscouts.org/advance/cubscout/ranks.asp>

Tiger: <http://meritbadge.org/wiki/index.php?title=Tiger>

Wolf: <http://meritbadge.org/wiki/index.php?title=Wolf>

Bear: <http://meritbadge.org/wiki/index.php?title=Bear>

Webelos: <http://meritbadge.org/wiki/index.php?title=Webelos>

Cub Scout Academics and Sports Workbooks: ▶ meritbadge.org -or- ▶ [Academics](#) / [Sports](#)

Webelos Activity Badge Workbooks: ▶ usscouts.org -or- ▶ meritbadge.org

Boy Scouts of America: <http://www.scouting.org/> ▶ [Guide to Safe Scouting](#) ▶ [Age-Appropriate Guidelines for Activities](#)

Planet Locations: <http://stardate.org/nightsky/planets/>

Constellations: <http://stardate.org/nightsky/constellations/>

Night sky: <http://www.heavens-above.com/> Click [select from map](#) to enter your location then click [Constellations](#).

Details on the planets: <http://www.skyandtelescope.com/observing/objects/planets/>

Astronomical League: <http://www.astroleague.org>

NASA: <http://www.nasa.gov>

National Radio Astronomy Observatory: <http://www.nrao.edu>

Sky Maps: <http://www.skymaps.com>

Sky & Telescope: <http://www.skyandtelescope.com/>

SpaceWander.com: <http://www.spacewander.com>

Astronomy Watch: <http://www.astronomy-watch.com>

National Optical Astronomy Observatory: <http://www.noao.edu>

The Planetary Society: <http://planetary.org>

Space Telescope Science Institute: <http://hubblesite.org>

Space.com: <http://www.space.com/>

SpaceWeather.com: <http://www.SpaceWeather.com>