

# Cub Scout Academics



## Astronomy

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The requirements listed below are taken from the  
Cub Scout Academics and Sports Program Guide (34299 - 2009 Printing).

Requirements were revised since the previous edition - (34299B - 2006 Revision).  
[Click here to see the previous requirements.](#)

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**This subject was added in 2002.**

Webelos Scouts that earn the Astronomy Belt Loop while a Webelos Scout  
also satisfy requirement 14 for the [Scientist](#) Activity Badge.

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### Requirements

Tiger Cubs, Cub Scouts, and Webelos Scouts may complete requirements in a family, den, pack, school, or community environment. Tiger Cubs must work with their parents or adult partners. Parents and partners do not earn loops or pins.

### Belt Loop

#### Complete these three requirements:

1. Set up and demonstrate how to focus a simple telescope or binoculars.  
(A local astronomy club may be a resource for this activity.)
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, star map, and universe.

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## **Academics Pin**

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

1. Draw a diagram of a telescope and explain how it works.
2. Explain how to use a star map.
3. Draw and label five constellations. See if you can locate any of them in the sky using a star map.
4. Find the North Star. Explain its importance.
5. With your parent's or adult partner's permission, interview an astronomer. This person may be a professional or an amateur astronomer from a local astronomy club. Report on what you learned to your den or family.
6. Learn about careers that relate to Astronomy. Make a list of those careers. Tell your den or an adult family member what school subjects will help you get a position in those careers.
7. Visit a planetarium or a local astronomy club. Give a report on what you learned to your den.
8. Make a poster illustrating the different kinds of stars. Include a diagram showing the life cycle of a star.
9. Learn about some of the early space missions. Tell your den or family about one of them.
10. Find a news story about a recent happening related to space. Tell your den or family about this event.
11. Write a report on two famous astronomers.
12. Locate three major observatories on a map. Explain why these locations are good for astronomy.