



Sky is the Limit

Adventure Requirements

Complete requirement 1-3 plus at least one other.

1. With your den or with your parent, guardian, or other caring adult, go outside to observe the night sky. Talk about objects you see or might see.
2. Look at a distant object through a telescope or binoculars. Show how to focus the device you choose.
3. Find out about two astronauts who were Scouts when they were younger. Share what you learned.
4. Observe in the sky or select from a book, chart, computer or electronic device two constellations that are easy to see in the night sky. With your parent, guardian, or other caring adult, find out the names of the stars that make up the constellation and how the constellation got its name. Share what you learned.
5. Draw and name your own constellation. Share your constellation with others.
6. Create a homemade model of a constellation.
7. Find out about two different jobs related to astronomy. Share this information.
8. With your den or family, visit a planetarium, observatory, science museum, astronomy club, or college or high school astronomy teacher. Before you go, write down questions you might want to ask. Share what you learned.



Parent Corner

In this adventure you will discover the wonders of the night sky. You will also learn about the tools used by explorers and stargazers to see the stars and planets.



ELECTIVE ADVENTURES



Sky is the Limit

Requirement #1 : Night Sky

Materials Needed

Instructions

1. With your den or with your parent, guardian, or other caring adult, go outside to observe the night sky. Talk about objects you see or might see.



Observe the Night Sky

1. What time was it when you went outside?
2. How dark was it?
3. What did you notice about the sky at night?
4. What objects did you see?



Pee Wee Says

"Did you know that the sky changes as the seasons change? This makes the night sky different during each season."



ELECTIVE ADVENTURES



Sky is the Limit

Requirement #2 : Observe

Materials Needed

- Telescope or binoculars
- Paper
- Pencil

Instructions

1. Look at a distant object through a telescope or binoculars. Show how to focus the device you choose.



Telescopes make things bigger, brighter, and closer right before your eyes.

You can also use binoculars to make things that are far away look closer. Binoculars work like telescopes do. Both telescopes and binoculars have a dial that you will use to focus on an object.

Pick an object in the night sky. Look at it and draw it as you see it with the naked eye.

Now look through binoculars or a telescope. Draw it again, showing some of the new detail.



Pee Wee Says

“A Scout is reverent. Taking time to see the wonders of nature is a way to show reverence.”



ELECTIVE ADVENTURES



Sky is the Limit

Requirement #3 : Research

Materials Needed

- Computer
- Note paper
- Pencil or Pen

Instructions

1. Find out about two astronauts who were Scouts when they were younger. Share what you learned.



Astronauts are men and women who study and train to go into space. Many astronauts decide at a very young age that this is what they want to do. They work hard, do well in school, and stay focused on their dream of becoming an astronaut

Many current and former NASA astronauts and pilots have been involved in the Scouting program. Several astronauts have been Eagle Scouts. Twenty-four men traveled to the moon on nine Apollo missions. Twenty of these men were Scouts. Eleven of the 12 men who walked on the moon were Scouts too.

Astronaut Name

- 1.
- 2.

Scout Rank Achieved

- 1.
- 2.

College Attended

- 1.
- 2.

Space Mission(s)

- 1.
- 2.

Pee Wee Says



"A merit badge provides a Scout with additional opportunities for learning, personal growth, physical development, career awareness, citizenship, and life skills development."



ELECTIVE ADVENTURES



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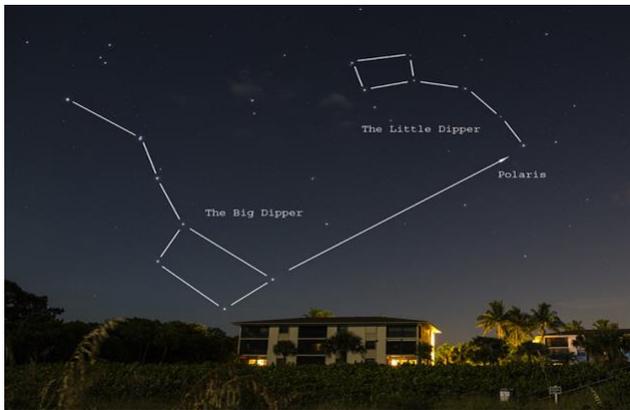
Requirement #4 : Reach for the Stars

Materials Needed

- Book or Computer
- Notebook
- Pencil or Pen

Instructions

1. Observe in the sky or select from a book, chart, computer or electronic device two constellations that are easy to see in the night sky. With your parent, guardian, or other caring adult, find out the names of the stars that make up the constellation and how the constellation got its name. Share what you learned.



Many of the stars in the sky got their names from ancient astronomers. Constellations were sometimes given their names because of the way they looked.

A constellation is a group of stars that makes an imaginary shape in the night sky. They were named after characters in Greek myths, people and objects. You have to connect the dots to see the animal or image in the group of stars that the constellation is named for.

Constellation

- 1.
- 2.

Names of stars in the constellation

- 1.
- 2.

How it got its name

- 1.
- 2.

Pee Wee Says



"Knowing some constellations makes the night sky familiar. It may also help you navigate."