



Cub Scout SuperNova Award Dr. Luis W. Alvarez Award



Cub Scout SuperNova award

1. Earn the Science and Mathematics Cub Scout academic pins.

<input type="checkbox"/> Science academic pin earned on _____ (date)
<input type="checkbox"/> Mathematics academic pin earned on _____ (date)

2. Earn THREE of the following Cub Scout academic pins: Astronomy, Computers, Geography, Geology, Map and Compass, Nutrition, Pet Care, Photography, Reading and Writing, Video Games, Weather, and Wildlife Conservation,

<input type="checkbox"/> Astronomy _____ (date)	<input type="checkbox"/> Pet Care _____ (date)
<input type="checkbox"/> Computers _____ (date)	<input type="checkbox"/> Photography _____ (date)
<input type="checkbox"/> Geography _____ (date)	<input type="checkbox"/> Read & Write _____ (date)
<input type="checkbox"/> Geology _____ (date)	<input type="checkbox"/> Video Games _____ (date)
<input type="checkbox"/> Map & Compass _____ (date)	<input type="checkbox"/> Weather _____ (date)
<input type="checkbox"/> Nutrition _____ (date)	<input type="checkbox"/> Wildlife Conserv. _____ (date)

3. Find interesting facts about Dr. Luis H. Alvarez. Then discuss what you learned with your mentor, including answers to the following questions: What important award did Dr. Alvarez earn? What was his famous theory about dinosaurs?

<input type="checkbox"/> I learned facts about Dr. Luis H. Alvarez and discussed them with my Mentor.
<input type="checkbox"/> Dr. Alvarez was awarded the _____
<input type="checkbox"/> His famous theory is _____



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4. Find out about three other famous scientists, technology innovators, engineers, or mathematicians approved by your mentor. Discuss what you learned with your mentor.

I learned about these famous STEM people and discussed them with my Mentor.

1. _____
2. _____
3. _____

5. Speak with your teacher(s) at school (or your parents if you are home-schooled) OR one of your Cub Scout leaders about your interest in earning the Cub Scout Supernova award. Ask them why they think math and science are important in your education. Discuss what you learn with your mentor.

- I talked to an adult about my interest in earning the Cub Scout SuperNova award.
- We talked about why math and science are important in my education.
- I discussed what I learned with my Mentor.

6. Participate in a science project or experiment in your classroom or school. Or do a special science project approved by your teacher. Discuss this activity with your mentor.

- My science project was _____
- I discussed the science project with my Mentor.

7. Do ONE of the following:

- A. Visit with someone who works in a STEM-related career. Discuss what you learned with your mentor.
- B. Learn about a career that depends on knowledge about science, technology, engineering, or mathematics. Discuss what you learned with your mentor.

A1. I talked to _____
who works as a _____

A2. I discussed what I learned with my Mentor.

OR

B1. I learned about _____,
a career that depends on knowledge of STEM topics.

B2. I discussed what I learned with my Mentor.



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8. Learn about the scientific method (also called the scientific process). Discuss the scientific method with your Mentor. Include a simple demonstration to show what you learned.

<input type="checkbox"/> I learned about the scientific method.
<input type="checkbox"/> I discussed the scientific method with my Mentor.
<input type="checkbox"/> I demonstrated the scientific method to my Mentor by demonstrating _____ _____

9. Participate in a Nova- or other STEM-related activity in your Cub Scout den or pack meeting that is conducted by a Boy Scout or Venturer who is working on his or her Supernova award. If this is not possible, participate in another Nova- or STEM-related activity in your den or pack meeting.

<input type="checkbox"/> I participated in a STEM-related activity with my den/pack.
The activity was _____
The activity was lead by _____

10. Submit an application for the Cub Scout Supernova award to the district Nova or advancement committee for approval.

<input type="checkbox"/> I downloaded and completed the application for the Cub Scout SuperNova award. (http://www.scouting.org/filestore/STEM/pdf/SupernovaApplication.pdf)
<input type="checkbox"/> I will submit the application and a copy of this worksheet to the Council's Nova Committee for approval.