



Cub Scout Supernova Award Dr. Luis W. Alvarez 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)

Mentor's Okay _____ 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"/> Reading & Writing _____ (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 Conservation _____ (date)
_____	_____
Mentor's Okay _____ Date _____	

3. Find interesting facts about Dr. Luis W. Alvarez using resources in your school or local library or on the Internet (with your parent's or guardian's permission and guidance). Then discuss what you learned with your mentor, including answers to the following questions: What very important award did Dr. Alvarez earn? What was his famous theory about dinosaurs?

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

Mentor's Okay _____ Date _____



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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. _____

Mentor's Okay

Date

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.

Mentor's Okay

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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.

Mentor's Okay

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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.

I chose <input type="checkbox"/> A <input type="checkbox"/> B	
For option A,	
<input type="checkbox"/> I visited with _____ on date _____	
<input type="checkbox"/> I discussed what I learned with my Mentor.	
For option B,	
<input type="checkbox"/> I learned about the career _____	
<input type="checkbox"/> I discussed what I learned with my Mentor.	
_____	_____
Mentor's Okay	Date

8. Learn about the scientific method (also called the scientific process). Discuss this with your Mentor and 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	

_____	_____
Mentor's Okay	Date

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.	
<input type="checkbox"/> The activity was _____ and led by _____	
_____	_____
Mentor's Okay	Date



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

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

Mentor's Okay

Date