



Cub Scout Supernova Award Dr. Luis W. Alvarez Award



Cub Scout Supernova award

1. Complete **both** of the Adventures appropriate for your rank.

Requirement 1

<u>Wolf Cub Scouts</u>	<u>Date Completed</u>	<u>Bear Cub Scouts</u>	<u>Date Completed</u>
Air of the Wolf	_____	Make it Move	_____
Code of the Wolf	_____	Super Science	_____

2. Complete the following adventure appropriate for your rank.

Requirement 2

<u>Wolf Cub Scouts</u>	<u>Date Completed</u>	<u>Bear Cub Scouts</u>	<u>Date Completed</u>
Call of the Wild	_____	Forensics OR Marble Madness	_____

3. Find interesting facts about Dr. Luis W. Alvarez using resources in your school or local library or on the Internet (with your parents' or guardians permission and guidance). Then discuss what you learn with your mentor, including answers to the following questions:

What very important award did Dr. Alvarez earn?

What was his famous theory about dinosaurs?

Requirement 3

I learned facts about Dr. Luis H. Alvarez and discussed them with my Mentor.

Dr. Alvarez was awarded the _____

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.

Requirement 4

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.

Requirement 5

- 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.

Requirement 6

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



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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.

Requirement 7 (*check the option you chose*)

A. I talked to _____
who works as a _____
I discussed what I learned with my Mentor.

OR

B. I learned about _____,
a career that depends on knowledge of STEM topics.
I discussed what I learned with my Mentor.

8. Learn about the scientific method (or scientific process). Discuss this with your mentor, and include a simple demonstration to show what you learned.

Requirement 8

I learned about the scientific method.

I discussed the scientific method with my Mentor.

I demonstrated the scientific method to my Mentor by demonstrating _____



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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.

Requirement 9

I participated in a STEM-related activity with my den/pack.

The activity was _____

The activity was led by _____

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

Requirement 10

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.