Scout's Name		
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Dr. Luis W. Alvarez

Cub Scout Supernova Award Guide Sheets

Scout's Name:	
Unit:	
Supernova Mentor 's Name:	····
Supernova Mentor 's Phone No.: _	

These guide sheets can guide you through helping Scouts complete the Dr. Luis W. Alvarez Supernova Award. For full reference, please read https://www.scouting.org/stem-nova-awards/awards/.

You can download a copy of the *Guide to Advancement*. from http://www.scouting.org/filestore/pdf/33088.pdf. No one may add or subtract from the official requirements found in the Cub Scout Nova Awards Guidebook (Pub. 34032 – SKU 614935).

Use of these guide sheets are not required, but they were created to help mentors organize and track the appropriate documentation that is required to be submitted to the STEM committee. Per the Supernova Award Application, the candidate states that "I am submitting this application, with all required signatures and approvals, along with copies of my reports and other appropriate documentation, for consideration."

You should use the spaces provided for each requirement to keep track of what has been completed, and to make notes for discussions with your Scout.

If a requirement says that you must take an action using words such as "do", "discuss", "show", "tell", "explain", "demonstrate", "identify", etc., that is what you must do.

It is recommended that you earn at least two of the Nova awards for Cub Scouts before earning the Dr. Luis W. Alvarez Supernova Award.

Current Novas:

Science	Technology	Engineering	Math
Science Everywhere	Tech Talk	Swing	1-2-3 Go!
Down and Dirty	Cub Scouts Can	Up and Away	Fearful Symmetry
Nova Wild	Code		
Out of This World			
Uncovering the Past			

Scout's	Name:		

☐ 1.	Complete the adventure appropriate for your rank AND complete either option A or B.
	Wolf Cub Scouts: Code of the Wolf
	Completion Date: /
	☐ Copy of Advancement Report attached on page below.
	Bear Cub Scouts: Make It Move Completion Date: // // // // // // // // // // // // //
	Completion Date://
	☐ Copy of Advancement Report attached on page belowAND
	 Option A Do all of the following: a. Keep track of the money you earn and spend for three weeks. Completion Date:/
	 b. Measure, mix, and prepare at least two recipes. Share your snacks with family, friends, or your den. Completion Date of first recipe://
	☐ Copy of presentation attached on page below.

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Scout's N	ama.		
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<u> </u>	Cc •	omplete the adventure appropriate for your rank OR complete option A or B. Wolf Cub Scouts: Call of the Wild
		Completion Date:/
		☐ Attached copy of Advancement Report on page below.
	•	Bear Cub Scouts: Forensics
		Completion Date:/
		☐ Attached copy of Advancement Report on page below.
	(DR
	•	 ☐ Option A: Do all of the following: a. Go shopping with an adult and use a calculator to add up how much the items you buy will cost. See whether your total calculated equals the total at check out. Completion Date:///
		 □ Pictures of trip and item list attached on page below. b. Explain the meaning of these statistical words and tools: data, averaging, tally marks, bar graph, line graph, pie chart, and percentage. Completion Date://
		 Notes of words and definitions attached on page below. Study a newspaper or online news source, with your parent's or guardian's permission, to find as many examples as you can of statistical information. Completion Date: //
		☐ Clippings or printouts attached on page below.
	•	 Option B: Do both of the following: a. Explain to your den or your Mentor how a meteorologist or insurance company(or someone else) might use the mathematics of probability to predict what might happen in the future (i.e., the chance that it might rain, or the chance that someone might be in a car accident). Completion Date:///
		☐ Written notes or report attached on page below.
		 b. Predict the probability of a plastic bottle landing on its bottom, top, and side. Then flip it 100 times and keep track of which way it lands. Identify any possible sources of experimental error. Discuss the differences if the bottle is empty or full. Completion Date:///
		☐ Log file with predictions and outcomes attached on page below.

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I, as the Supernova Mentor, have talked to the applicant about the person that they

Pictures of science presentation board/setup and scout working on experiment are

☐ 6. **Participate** in a science project or experiment in your classroom or school OR do a

special science project approved by your teacher.

talked to and what they learned from their discussion.

Completion Date: ____/___/

Science Experiment Done: __

attached page ____ below.

Superr	nova Award	Scout's Name:
□ 7 .	Completion Date:/ Person who was spoken to I, as the Supernova Mento talked to and what they lea	r, have talked to the applicant about the person that they arned from their discussion.
	 B. Learn about a career the engineering, or mathematic Completion Date:/ Career: I, as the Supernova Mentotalked to and what they learned 	nat depends on knowledge about science, technology, cs. r, have talked to the applicant about the person that they arned from their discussion.
□ 8.		nod (or scientific process). Discuss this with your mentor ration to show what you learned.
	I, as the Supernova Mentor, he talked to and what they learne	ave talked to the applicant about the person that they d from their discussion.

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, pack meeting, or event facilitated by your district or council.

Completion Date: ____/___/

demonstration done are attached on page ____ below.

☐ Written notes or report on what was learned on scientific methods and pictures of the

☐ 10. Submit an application for the Cub Scout Supernova award to the to the Council STEM Committee with all supporting documentation including this completed guide. This application can be found at:

https://filestore.scouting.org/filestore/STEM/pdf/SupernovaApplication.pdf

NOTES:

For each requirement, checkbox

Sign or Initial

On the pages that follow please provide the supporting documents by uploading a photo or pdf to each page. As you update the documents, update the pages numbers above to correlate with the requirement.

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