

## Dr. Luis W. Alvarez



## Cub Scout Supernova Award Workbook

This workbook can help you but you still need to read the Cub Scout Nova Awards Guidebook.

This Workbook can help you organize your thoughts as you prepare to meet with your mentor.

You still must satisfy your mentor that you can demonstrate each skill and have learned the information.

You should use the work space provided for each requirement to keep track of which requirements have been completed, and to make notes for discussing the item with your mentor, not for providing full and complete answers.

If a requirement says that you must take an action using words such as "discuss", "show",

"tell", "explain", "demonstrate", "identify", etc, that is what you must do.

## Mentors may not require the use of this or any similar workbooks.

No one may add or subtract from the official requirements found in the Cub Scout Nova Awards Guidebook (Pub. 34032 – SKU 614935).

The requirements were issued in 2012 • This workbook was updated in November 2017.

Scout's Name:	Unit:
	Mentor's Phone No.:  http://www.USScouts.Org • http://www.MeritBadge.Org  ubmit errors, omissions, comments or suggestions about this workbook to: Workbooks@USScouts.Org  nts or suggestions for changes to the requirements for the Nova Award to: Program.Content@Scouting.Org
Nova	gh it is not a requirement, it is recommended that you earn at least two of the seven awards for Cub Scouts before earning the Dr. Luis W. Alvarez Supernova Award. upernova award can be earned by Cub Scouts like you who want to soar in science.
Wo	Bear Cub Scouts Code of the Wolf Make It Move  A: Do all of the following: Keep track of the money you earn and spend for three weeks. Geometry: Select a simple shape or figure. Observe the world around you for at least a week and keep a record of where you see this shape or figure and how it is used. Visit a bank and have someone explain how interest works. Use the current interest rate and calculate how much interest different sums of money will earn.  B: Do all of the following: Measure how you use your time by keeping a diary or log of what you do for a week. Then make a chart or graph to display how you spend your time.  Measure, mix, and prepare at least two recipes. Share your snacks with family, friends, or your den. Study geometry in architecture by exploring your neighborhood or community. Look at different types of buildings-houses, places of worship, businesses, etcand create a presentation (a set of photographs, a collage of pictures from newspapers and magazines, a model) that you can share with your den or pack to show what you have seen and learned about shapes in architecture.

Workbook © Copyright 2017 - U.S. Scouting Service Project, Inc. - All Rights Reserved Requirements © Copyright, Boy Scouts of America (Used with permission.)

Dr. Luis	W. Alvarez Supernova Award	Scout's Name:
<u> </u>	Complete the adventure appropriate for you  Wolf Cub Scouts  Call of the Wild  Option A: Do all of the following:  a. Go shopping with an adult and	r rank or complete option A or option B.  Bear Cub Scouts  Forensics  d use a calculator to add up how much the items you buy will cost. See
	whether your total equals the total equals total equals the total equals t	total at check out. statistical words and tools: data, averaging, tally marks, bar graph, line graph, news source, with your parent's or guardian's permission, to find as many tical information.  entor how a meteorologist or insurance company (or someone else) might bility to predict what might happen in the future (i.e., the chance that it might one might be in a car accident). stic bottle landing on its bottom, top, and side. Then flip it 100 times and keep entify any possible sources of experimental error. Discuss the differences if
☐ 3.	your parent's or guardian's permission and o	arez using resources in your school or local library or on the Internet (with guidance).
	Then discuss what you learn with your mon-	tor, including answers to the following questions:
	men discuss what you learn with your mem	ior, including answers to the following questions.
	What very important award did Dr. Alvarez	earn?
		- <del></del>

What was his famous theory about dinosaurs?  4. Find out about three other famous scientists, technology innovators, engineers, or mathematicians approved by your not	Luis	W. Alvarez Supernova Aw	ard	Scout's Name:
Discuss what you learned with your mentor.  Discuss what your learned with your mentor.  Speak with your teacher(s) at school (or your parents if you are home-schooled) OR one of your Cub Scout leaders at your interest in earning the Cub Scout Supernova award.  Person you spoke with:		What was his famous the	ory about dinosaurs?	
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		your interest in earning the	e Cub Scout Supernova award.	
		Person you spoke with:		
Ask them why they think math and science are important in your education.			nath and science are important in your o	aducation
		Ask them why they think i	matir and science are important in your	saucation.

Luis W. A	Alvarez Supernova	Award	Scout's Name:	
Dis	cuss what you learr	ı with your mentor.		
6. Par tea	rticipate in a science cher.	project or experiment in your classi	room or school OR do a special science project	approved by y
Pro	oject you did:			
	cuss this activity wi	th your montor		
פוט	cuss this activity wi	Tryour memor.		
7. Do	ONE of the following	g:		
		e who works in a STEM-related care	er.	
	Person you visited	ı.		
	Discuss what you	learned with your mentor.		
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	Career:												
	Discuss v	vhat you learn	ed with yo	our mento	r.								
8. Le	arn about t	ne scientific m	ethod (or	scientific	process).								
		ith your ment	•		,	onstration	to show v	what vou	learne	d.			
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W	hat did vou	demonstrate?											
	·	demonstrate?		related a	ativity in v	our Cub S	Scout den	or nack i	meetin	n that is	conduct	ted by a R	Boy
9. Pa	irticipate in Venturer w	a Nova- or oth	ner STEM on his or h										
9. Pa	rticipate in Venturer w tivity in you	a Nova- or oth ho is working or den or pack o	ner STEM on his or h					sible, par	ticipate				
9. Pa	orticipate in Venturer w tivity in you ctivity you p	a Nova- or oth	ner STEM- on his or h meeting.	ner Superi	nova awa	rd. If this i	s not poss	sible, par	ticipate Date	in anotl	her Nov	a- or STE	EM-

You can download a complete copy of the Guide to Advancement .from http://www.scouting.org/filestore/pdf/33088.pdf.