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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.

	y the Scout to make notes for discussing the item with his counselor,
	wers. Each Scout must do each requirement.
	the Cub Scout Nova Awards Guidebook (Pub. 34032 – SKU 614935).
The requirements were issued in 2012 •	This workbook was updated in April 2014.
Scout's Name:	Unit:
Counselor's Name:	Counselor's Phone No.:
	http://www.MeritBadge.Org
	ons about this workbook to: Workbooks@USScouts.Org
Send comments or suggestions for changes to the requirements	ents for the Nova Award to: Program.Content@Scouting.Org
Nova awards for Cub Scouts before earni	nmended that you earn at least two of the four ng the Dr. Luis W. Alvarez Supernova Award. ıb Scouts like you who want to soar in science.
1. Earn the Science AND Mathematics Cub Scout acader	nic pins.
Science Mathematics	
2. Earn THREE of the following Cub Scout academic pins	s: Astronomy, Computers, Geography, Geology, Map and and Writing, Video Games, Weather, and Wildlife Conservation.
Astronomy Computers	Geography
Geology Map and Com	pass 🗌 Nutrition
Pet Care Photography	Reading and Writing
☐ Video Games	Wildlife Conservation
 3. Find interesting facts about Dr. Luis W. Alvarez using reyour parent's or guardian's permission and guidance). 	esources in your school or local library or on the Internet (with
Then discuss what you learn with your mentor, includin	g answers to the following questions:
	<u> </u>

What very important award did Dr. Alvarez earn?

What was his famous theory about dinosaurs?

4. Find out about three other famous scientists, technology innovators, engineers, or mathematicians approved by your mentor.

 1.

 2.

 3.

Discuss what you learned with your mentor.

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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.

,	y think math and science are important in your education.
Discuss what you	learn with your mentor.
	· · ·
Participate in a sc /our teacher.	ience project or experiment in your classroom or school OR do a special science project appro
Project you did:	
	ty with your mentor.

7. Do ONE of the following:

	Person you visited:
	Discuss what you learned with your mentor.
] B.	Learn about a career that depends on knowledge about science, technology, engineering, or mathematics.
	Career:
	Discuss what you learned with your mentor.

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8. Learn about the scientific method (or scientific process).

Discuss this with your mentor, and include a simple demonstration to show what you learned.

	What did you demonstrate?			
9.	Participate in a Nova- or othe Scout or Venturer who is wor STEM-related activity in your	king on his or her Supernov		
	Activity you participated in:	:	Date	

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

Attachment - (NOTE: It is not necessary to print this page.)

Important excerpts from the 'Guide To Advancement', No. 33088:

Effective January 1, 2012, the 'Guide to Advancement' (which replaced the publication 'Advancement Committee Policies and Procedures') is now the official Boy Scouts of America source on advancement policies and procedures.

[Inside front cover, and 5.0.1.4] — Unauthorized Changes to Advancement Program
 No council, committee, district, unit, or individual has the authority to add to, or subtract from, advancement requirements.
 (There are limited exceptions relating only to youth members with disabilities. For details see section 10, "Advancement for Members With Special Needs".)

• [Inside front cover, and 7.0.1.1] — The 'Guide to Safe Scouting' Applies

Policies and procedures outlined in the 'Guide to Safe Scouting', No. 34416, apply to all BSA activities, including those related to advancement and Eagle Scout service projects. [Note: Always reference the online version, which is updated quarterly.]

• [7.0.3.1] — The Buddy System and Certifying Completion

Youth members must not meet one-on-one with adults. Sessions with counselors must take place where others can view the interaction, or the Scout must have a buddy: a friend, parent, guardian, brother, sister, or other relative —or better yet, another Scout working on the same badge— along with him attending the session. When the Scout meets with the counselor, he should bring any required projects. If these cannot be transported, he should present evidence, such as photographs or adult certification. His unit leader, for example, might state that a satisfactory bridge or tower has been built for the Pioneering merit badge, or that meals were prepared for Cooking. If there are questions that requirements were met, a counselor may confirm with adults involved. Once satisfied, the counselor signs the blue card using the date upon which the Scout completed the requirements, or in the case of partials, initials the individual requirements passed.

• [7.0.3.2] — Group Instruction

It is acceptable—and sometimes desirable—for merit badges to be taught in group settings. This often occurs at camp and merit badge midways or similar events. Interactive group discussions can support learning. The method can also be attractive to "guest experts" assisting registered and approved counselors. Slide shows, skits, demonstrations, panels, and various other techniques can also be employed, but as any teacher can attest, not everyone will learn all the material.

There must be attention to each individual's projects and his fulfillment of *all* requirements. We must know that every Scout —actually and *personally*— completed them. If, for example, a requirement uses words like "show," "demonstrate," or "discuss," then every Scout must do that. It is unacceptable to award badges on the basis of sitting in classrooms *watching* demonstrations, or remaining silent during discussions. Because of the importance of individual attention in the merit badge plan, group instruction should be limited to those scenarios where the benefits are compelling.