



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.

The work space provided for each requirement should be used by the Scout to make notes for discussing the item with his counselor, not for providing the full and complete answers. Each Scout must do each requirement.

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 October 2015.

Scout's Name: _____ Unit: _____

Counselor's Name: _____ Counselor's Phone No.: _____

<http://www.USScouts.Org> • <http://www.MeritBadge.Org>

Please submit errors, omissions, comments or suggestions about this **workbook** to: Workbooks@USScouts.Org

Although it is not a requirement, it is recommended that you earn at least two of the four Nova awards for Cub Scouts before earning the Dr. Luis W. Alvarez Supernova Award. This Supernova award can be earned by Cub Scouts like you who want to soar in science.

Send comments or suggestions for changes to the **requirements** for the **Nova Award** to: Program.Content@Scouting.Org

- 1. Complete both of the adventures appropriate for your rank.

Wolf Cub Scouts <input type="checkbox"/> Air of the Wolf <input type="checkbox"/> Code of the Wolf	Bear Cub Scouts <input type="checkbox"/> Make It Move <input type="checkbox"/> Super Science
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- 2. Complete the following adventure appropriate for your rank.

Wolf Cub Scouts <input type="checkbox"/> Call of the Wild	Bear Cub Scouts <input type="checkbox"/> Forensics OR <input type="checkbox"/> Marble Madness
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- 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 learn with your mentor, including answers to the following questions:

- 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 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.

Activity you participated in:

: _____

Date

- 10. Submit an [application for the Cub Scout Supernova award](#) to the district Nova or advancement committee for approval.

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

The *'Guide to Advancement'* (which replaced the publication *'Advancement Committee Policies and Procedures'*) is 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.