



Thomas Edison



Boy Scout Supernova Award Workbook

This workbook can help you but you still need to read the Boy 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 Boy Scout Nova Awards Guidebook (Pub. 34033 – SKU 614936).

The requirements were issued in 2012 • This workbook was updated in February 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

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

Second-Level Supernova Award for Boy Scouts

- 1. Earn the Dr. Bernard Harris Supernova Award.
- 2. Complete ONE additional Boy Scout Nova award for a total of four. (Note: This may be done at any time after becoming a Boy Scout.)
 - Shout! Whoosh!
 - Start Your Engines! Designed to Crunch
- 3. Earn FOUR additional Supernova-approved merit badges from the list provided, other than the four earned while working on the Harris Supernova Award for a total of eight. (Note: These may be earned at any time after becoming a Boy Scout.)

<input type="checkbox"/> Animal Science	<input type="checkbox"/> Energy	<input type="checkbox"/> Nuclear Science
<input type="checkbox"/> Archaeology	<input type="checkbox"/> Engineering	<input type="checkbox"/> Oceanography
<input type="checkbox"/> Architecture	<input type="checkbox"/> Environmental Science	<input type="checkbox"/> Plant Science
<input type="checkbox"/> Astronomy	<input type="checkbox"/> Farm Mechanics	<input type="checkbox"/> Pulp and Paper
<input type="checkbox"/> Automotive Maintenance	<input type="checkbox"/> Fish and Wildlife Management	<input type="checkbox"/> Radio
<input type="checkbox"/> Aviation	<input type="checkbox"/> Forestry	<input type="checkbox"/> Reptile and Amphibian Study
<input type="checkbox"/> Bird Study	<input type="checkbox"/> Gardening	<input type="checkbox"/> Robotics
<input type="checkbox"/> Chemistry	<input type="checkbox"/> Geocaching	<input type="checkbox"/> Scuba Diving
<input type="checkbox"/> Composite Materials	<input type="checkbox"/> Geology	<input type="checkbox"/> Soil and Water Conservation
<input type="checkbox"/> Computers	<input type="checkbox"/> Insect Study	<input type="checkbox"/> Space Exploration
<input type="checkbox"/> Dentistry	<input type="checkbox"/> Inventing	<input type="checkbox"/> Surveying
<input type="checkbox"/> Drafting	<input type="checkbox"/> Mammal Study	<input type="checkbox"/> Veterinary Medicine
<input type="checkbox"/> Electricity	<input type="checkbox"/> Medicine	<input type="checkbox"/> Weather
<input type="checkbox"/> Electronics	<input type="checkbox"/> Nature	<input type="checkbox"/> Welding
- 4. Complete TWO additional Supernova activity topics, one each in the two STEM areas NOT completed for the Harris Supernova Award. (Note: The intent is that upon completion of the Edison Supernova Award the Scout will have completed one Supernova activity topic in each of the four STEM areas.)

<input type="checkbox"/> Science	<input type="checkbox"/> Technology	<input type="checkbox"/> Engineering	<input type="checkbox"/> Mathematics
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- 5. Participate in a local, state, or national science fair or mathematics competition OR any other equally challenging STEM-oriented competition or workshop approved by your mentor. An example of this would be an X-Prize type competition. (Note: The intent is that upon completion of the Edison Supernova Award, the Scout will have participated in two such events.)

Competition:

- 6. Working with your mentor, organize and present a Nova award or other STEM-related program to a Cub Scout den or pack meeting. Be sure to receive approval from the appropriate unit leader. If a Cub Scout den or pack is not available, your presentation may be given to another youth group, such as your troop or at your place of worship. (Note: The intent is that upon completion of the Edison Supernova Award the Scout will have completed two such presentations.)
- 7. Research a scientific, technical, engineering, or mathematical breakthrough or invention of the past 100 years that has affected our society in a meaningful way and present your hypothesis on how it might further affect our society during your lifetime. Present either a 30-minute oral report or a 1,500-word written report to your mentor
- 8. Submit an application to the district or council Nova or advancement committee for approval.

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.