



# Wright Brothers



## Venturer Supernova Award Workbook

This workbook can help you but you still need to read the Venturer 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 Venturer Nova Awards Guidebook (Pub. 34031).

The requirements were revised in 2015 • This workbook was updated in August 2018.

Venturer's Name: \_\_\_\_\_ Unit: \_\_\_\_\_

Mentor's Name: \_\_\_\_\_ Mentor'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](mailto:Workbooks@USScouts.Org)

Send comments or suggestions for changes to the **requirements** for the **Nova Award** to: [Program.Content@Scouting.Org](mailto:Program.Content@Scouting.Org)

### Second-Level Supernova Award for Venturers

#### Option 2

**For those who earned the Dr. Bernard Harris Supernova Award as a registered Boy Scout**

- 1. Earn the Dr. Bernard Harris Supernova Award while a registered Boy Scout.
- 2. Complete ONE additional Venturer Nova award for a total of four. (Note: This may be done at any time after becoming a Venturer.) The Venturer Nova award completed should be different from the Boy Scout Nova awards previously completed.

- Launch!
- Hang On!
- Power Up
- Numbers Don't Lie

- 3. Using the guidelines found in the "Venturing STEM Explorations" chapter, complete FOUR of the topics listed above (*below*). The four topics must be different from those completed while working on the Dr. Sally Ride Supernova Award, for a total of eight different topics. (Note: These awards may be earned at any time after becoming a Venturer.)

- |   |   |  |
|---|---|--|
| <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                   |

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Venturer's Name: \_\_\_\_\_

- |                                      |                                       |  |
|--------------------------------------|---------------------------------------|--|
| <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 Wright Brothers Supernova Award, the Venturer will have completed one Supernova activity topic in each of the four STEM areas.)

STEM areas of topics previously completed (for the Dr. Bernard Harris Supernova Award)

- |                                  |                                     |                                      |                                      |
|----------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> Science | <input type="checkbox"/> Technology | <input type="checkbox"/> Engineering | <input type="checkbox"/> Mathematics |
|----------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|

STEM areas of topics completed for the Wright Brothers Supernova Award

- |                                  |                                     |                                      |                                      |
|----------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> Science | <input type="checkbox"/> Technology | <input type="checkbox"/> Engineering | <input type="checkbox"/> Mathematics |
|----------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|

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 Wright Brothers Supernova Award, the Venturer will have participated in two such events.)

Competition:	
Date:	

6. Working with your mentor, organize and present a Nova awards or other STEM-related program at a Cub Scout den or pack meeting. Be sure to receive permission from the appropriate unit leader. If a Cub Scout den or pack is not available, your presentation may be given to another group. (Note: The intent is that upon completion of the Wright Brothers Supernova Award, the Venturer will have completed two such presentations.)

Date:		Group:	
Subject:			

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. Develop your hypothesis on how this invention 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.
10. Submit an application to the district Nova or advancement committee for approval.

**When working on Nova and Supernova awards, Scouts and Scouters should be aware of some vital information in the current edition of the *Guide to Advancement* (BSA publication 33088). Important excerpts from that publication can be downloaded from <http://usscouts.org/advance/docs/GTA-Excerpts-nova.pdf>.**

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