



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 June 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

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

Second-Level Supernova Award for Venturers

Option 1

For those who earned the Dr. Sally Ride Supernova Award as a registered Venturer

- 1. Earn the Dr. Sally Ride Supernova Award while a registered Venturer
- 2. Complete ONE additional Venturer Nova award for a total of four. (Note: This may be done at any time after becoming a Venturer.)

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.)

Animal Science

Energy

Nuclear Science

Archaeology

Engineering

Oceanography

Architecture

Environmental Science

Plant Science

Astronomy

Farm Mechanics

Pulp and Paper

Automotive Maintenance

Fish and Wildlife Management

Radio

Aviation

Forestry

Reptile and Amphibian Study

Bird Study

Gardening

Robotics

Chemistry

Geocaching

Scuba Diving

Composite Materials

Geology

Soil and Water Conservation

Computers

Insect Study

Space Exploration

Dentistry

Inventing

Surveying

Drafting

Mammal Study

Veterinary Medicine

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- | | | |
|--------------------------------------|-----------------------------------|----------------------------------|
| <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 Dr. Sally Ride 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. Sally Ride 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>.