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Please submit errors, omissions, comments or suggestions about this **workbook** to: [**Workbooks@USScouts.Org**](mailto:Workbooks@usscouts.org?subject=Merit%20Badge%20Workbooks)

Send comments or suggestions for changes to the **requirements** for the **Nova Award** to: [**Program.Content@Scouting.Org**](mailto:program.content@scouting.org@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 |
| ⬜ | Electricity | ⬜ | Medicine | ⬜ | Weather |
| ⬜ | Electronics | ⬜ | Nature | ⬜ | 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 previouslycompleted (for the Dr. Sally Ride Supernova Award) | | | | | | | |
| ⬜ | Science | ⬜ | Technology | ⬜ | Engineering | ⬜ | Mathematics |
| STEM areas of topicscompleted for the Wright Brothers Supernova Award | | | | | | | |
| ⬜ | Science | ⬜ | Technology | ⬜ | Engineering | ⬜ | 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**](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**](http://www.scouting.org/filestore/pdf/33088.pdf)**.**