BSA STEM Supernova Awards
BSA established the Supernova Awards program to go beyond the Nova Awards to further stimulate Scout and Venturer interest in STEM-related fields, and show how science, technology, engineering and mathematics apply to everyday living and the world around them.

Assumptions
- A unit has an affiliated Supernova Mentor (registered with NCAC) who is current with Youth Protection Training
- Each District has an Advancement & Recognition Chair and a STEM Coordinator to provide assistance

Guide Posts
- Cub Scouts and Webelos Scouts are introduced to STEM through a series of activities and achievement.
- The Supernova Awards recognize superior achievement by accomplishing experiments and other activities.
- The Supernova Awards include:

<table>
<thead>
<tr>
<th>Program</th>
<th>Supernova Awards</th>
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<tbody>
<tr>
<td>Cub Scouts (Wolf or Bear)</td>
<td>Dr Luis W. Alvarez Supernova Award</td>
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<tr>
<td>Webelos</td>
<td>Dr Charles H. Townes Supernova Award</td>
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- A Cub Scout Supernova Award requires:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Activity</th>
<th>Transaction</th>
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</table>
| 1           | Complete Adventures appropriate for rank | Wolf Scout  
|             |         | - Air of the Wolf  
|             |         | - Code of the Wolf  
|             |         | - Bear Scout  
|             |         | - Make it Move  
|             |         | - Super Science  
| 2           | Complete Adventures appropriate for rank | Wolf Scout  
|             |         | - Call of the Wild  
|             |         | - Bear Scout  
|             |         | - Forensics or  
|             |         | - Marble Madness  
| 3           | Find out about Dr Luis Alvarez | Discuss with your Mentor  
| 4           | Find out about three others famous for STEM | Discuss with your Mentor  
| 5           | Speak with your teacher or a Cub Scout leader about your interest in this award | Discuss with your Mentor  
| 6           | Participate in a science project | Discuss with your Mentor  
| 7           | Visit someone in a STEM related career or learn about a STEM career  
|             | Conducted by a Boy Scout or Venturer working on their Supernova Award is desired  
| 8           | Learn about the scientific method | Discuss with your Mentor  
| 9           | Participate in a STEM related activity at your den or pack meeting  
|             | Conducted by a Boy Scout or Venturer working on their Supernova Award is desired  
| 10          | Submit an application for the Cub Scout Supernova Award | Provide to the District STEM Coordinator, who will review and then forward to the NCAC STEM Committee |
A Webelos Supernova Award requires:

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<th>Requirement</th>
<th>Activity</th>
<th>Transaction</th>
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| 1           | Complete Webelos Adventures | - Adventures in Science  
- Adventures in Engineer  
- Scouting Adventure |
| 2           | Complete three of the six listed Adventures | - Build It  
- Building a Better World  
- Castaway  
- First Responder  
- Into the Wild  
- Into the Woods |
| 3           | Find out about Dr Charles H. Townes | Discuss with your Mentor |
| 4           | Find out about five others famous for STEM | Discuss with your Mentor |
| 5           | Speak with your teacher or a Cub Scout leader about your interest in this award | Discuss with your Mentor |
| 6           | Participate in a science project | Discuss with your Mentor |
| 7           | Visit someone in a STEM related career or learn about a STEM career | Discuss with your Mentor |
| 8           | Do an experiment that shows how the scientific method is used | Prepare a short report for your Mentor |
| 9           | Participate in a STEM related activity at your den or pack meeting | Conducted by a Boy Scout or Venturer working on their Supernova Award is desired |
| 10          | Submit an application for the Webelos Supernova Award | Provide to the District STEM Coordinator, who will review and then forward to the NCAC STEM Committee |

Success means:

- The key to deliver a successful STEM Supernova program in your unit is to integrate STEM into the accomplishment of existing unit program activities.
- A concerted, focused effort by the Cub Scout or Webelos Scout, with the assistance and guidance of a Supernova Mentor, the unit STEM coordinator and the unit leader.
- The District STEM Coordinator is available to assist with coordinating an event between the pack and a Scout working on their own Supernova Award.

Process to Achieve Supernova Award:

- Identify the registered Supernova mentor – to help guide the Scout thru the award process. If the unit does not have an affiliated Supernova Mentor, contact the District STEM Coordinator or Advancement & Recognition Committee Chair.
- Determine if there are fellow Scouts who want to also earn the Supernova Award.
- Determine if there are any activities that can be accomplished as part of the unit’s program.
- Develop a plan to accomplish the Supernova Award requirements.
- Complete the required Supernova Award application (to include the workbook) and forward to the District STEM Coordinator, who will in-turn present it to the NCAC STEM Committee Chair for review and approval.
- NCAC will finalize the approved award and forward the medal and certificate to the unit leader.
- The Scout is recognized at the next unit court of honor or similar event.

Resources:

- The NCAC STEM Committee Web page at http://www.ncaacsbsa.org/activitesevents/stem/. This page describes the NCAC STEM Program, how to register as a Supernova Mentor, training opportunities, and other events. The BSA STEM home page is at http://www.scouting.org/stem.aspx. Here you can find more information on what the BSA STEM program is all about – and the background on how to successful achieve the Nova Awards.