1. Earn the Science and Mathematics Cub Scout academic pins.

- Science academic pin earned on __________ (date)
- Mathematics academic pin earned on __________ (date)

Mentor’s Okay __________  Date __________

2. Earn THREE of the following Cub Scout academic pins: Astronomy, Computers, Geography, Geology, Map and Compass, Nutrition, Pet Care, Photography, Reading and Writing, Video Games, Weather, and Wildlife Conservation.

- Astronomy __________ (date)
- Pet Care __________ (date)
- Computers __________ (date)
- Photography __________ (date)
- Geography __________ (date)
- Reading & Writing __________ (date)
- Geology __________ (date)
- Video Games __________ (date)
- Map & Compass __________ (date)
- Weather __________ (date)
- Nutrition __________ (date)
- Wildlife Conservation __________ (date)

Mentor’s Okay __________  Date __________

3. Find interesting facts about Dr. Luis W. Alvarez using resources in your school or local library or on the Internet (with your parent’s or guardian’s permission and guidance). Then discuss what you learned with your mentor, including answers to the following questions:

- What very important award did Dr. Alvarez earn?
- What was his famous theory about dinosaurs?

- I learned facts about Dr. Luis W. Alvarez and discussed them with my Mentor.
- Dr. Alvarez was awarded the ____________________________________________.
- His famous theory about dinosaurs was _____________________________________

Mentor’s Okay __________  Date __________
4. Find out about three other famous scientists, technology innovators, engineers, or mathematicians approved by your mentor. Discuss what you learned with your mentor.

<table>
<thead>
<tr>
<th>I learned about these famous STEM people and discussed them with my Mentor.</th>
</tr>
</thead>
</table>
| ☐ 1. _______________________________________________________________
| ☐ 2. _______________________________________________________________
| ☐ 3. _______________________________________________________________

Mentor’s Okay ___________________________ Date ________________

5. Speak with your teacher(s) at school (or your parents if you are home-schooled) OR one of your Cub Scout leaders about your interest in earning the Cub Scout Supernova award. Ask them why they think math and science are important in your education. Discuss what you learn with your mentor.

| ☐ I talked to an adult about my interest in earning the Cub Scout Supernova award. |
| ☐ We talked about why math and science are important in my education. |
| ☐ I discussed what I learned with my Mentor. |

Mentor’s Okay ___________________________ Date ________________

6. Participate in a science project or experiment in your classroom or school OR do a special science project approved by your teacher. Discuss this activity with your mentor.

| ☐ My science project was _____________________________________________ |
| ☐ I discussed the science project with my Mentor. |

Mentor’s Okay ___________________________ Date ________________
7. Do ONE of the following:
   A. Visit with someone who works in a STEM-related career. Discuss what you learned with your mentor.
   B. Learn about a career that depends on knowledge about science, technology, engineering, or mathematics. Discuss what you learned with your mentor.

   I chose  □ A  □ B

   For option A,
   □ I visited with ______________________________ on date ________
   □ I discussed what I learned with my Mentor.

   For option B,
   □ I learned about the career ______________________________
   □ I discussed what I learned with my Mentor.

   ____________________________________          ________________
   Mentor's Okay                                                                                 Date

8. Learn about the scientific method (also called the scientific process). Discuss this with your Mentor and include a simple demonstration to show what you learned.

   □ I learned about the scientific method.

   □ I discussed the scientific method with my Mentor.

   □ I demonstrated the scientific method to my Mentor by demonstrating

   ____________________________________

   ____________________________________          ________________
   Mentor's Okay                                                                                 Date

9. Participate in a Nova- or other STEM-related activity in your Cub Scout den or pack meeting that is conducted by a Boy Scout or Venturer who is working on his or her Supernova award. If this is not possible, participate in another Nova- or STEM-related activity in your den or pack meeting.

   □ I participated in a STEM-related activity with my den/pack.

   □ The activity was __________________________ and led by __________________________

   ____________________________________          ________________
   Mentor's Okay                                                                                 Date
10. Submit an application for the Cub Scout Supernova award to the district Nova or advancement committee for approval.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>I downloaded and completed the application for the Cub Scout Supernova award. (<a href="http://www.scouting.org/filestore/STEM/pdf/SupernovaApplication.pdf">http://www.scouting.org/filestore/STEM/pdf/SupernovaApplication.pdf</a>)</td>
<td></td>
</tr>
<tr>
<td>I will submit the application and a copy of this worksheet to the Council’s Nova Committee for approval.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mentor’s Okay</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>