Cub Scout and Webelos Nova Award
Science Everywhere

Cub Scout and Webelos Nova Award for Science
This module is designed to help you explore how science affects your life each day.

1. Choose A or B or C and complete ALL the requirements.

   A. Watch an episode or episodes (about one hour total) of a show about anything related to science. Then do the following:
      i. Make a list of at least two questions or ideas from what you watched.
      ii. Discuss two of the questions or ideas with your counselor.

   B. Read (about one hour total) about anything related to science. Then do the following:
      i. Make a list of at least two questions or ideas from what you read.
      ii. Discuss two of the questions or ideas with your counselor.

   C. Do a combination of reading and watching (about one hour total) about anything related to science. Then do the following:
      i. Make a list of at least two questions or ideas from what you read and watched.
      ii. Discuss two of the questions or ideas with your counselor.

☐ Requirement 1

I chose option: ☐ A  ☐ B  ☐ C

Name(s) of things I watched and/or read: ________________________________

☐ i. I made a list of at least two questions from what I read and/or watch.

☐ ii. I discussed the ideas and questions with my Counselor

   Counselor’s okay _________________________ Date __________
2. Complete ONE Adventure from the following list for your current rank
   OR
   Complete Option A or B.

If you choose an Adventure, choose one you have not already earned. Discuss with your counselor what kind of science, technology, engineering, and math was used in the Adventure or Option.

**Option A:** Complete all of the following:
   a) Explain the scientific method to your adult partner.
   b) Use the scientific method in a simple science project. Explain the results to an adult.
   c) Talk to a scientist about why he or she became a scientist.

**Option B:** Complete all of the following:
   a) Show how to orient a map. Find three landmarks on the map.
   b) Make a simple compass with a magnet and pin.
   c) Show how a compass works.
   d) Use a compass on an orienteering activity with at least 3 stops.

☐ Requirement 2 (*circle the Adventure or Option you completed*)

<table>
<thead>
<tr>
<th>Wolf Cub Scouts</th>
<th>Bear Cub Scouts</th>
<th>Webelos Scouts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collections and Hobbies</td>
<td>A Bear Goes Fishing</td>
<td>Earth Rocks!</td>
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<tr>
<td>Digging in the Past</td>
<td>A Bear Picnic</td>
<td>Maestro!</td>
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<tr>
<td>Germs Alive</td>
<td>Critter Care</td>
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<tr>
<td>Grow Something</td>
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</tbody>
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OR

**Option A**  *Complete all three*

☐ a) Explain the scientific method.
☐ b) Complete a simple science project and explain the results _(project name)_
☐ c) Talk to a scientist about why he or she became a scientist._(scientist's name)_

OR

**Option B**  *Complete all four*

☐ a) Orient a map and find three landmarks on the map.
☐ b) Make a simple compass.
☐ c) Show how a compass works.
☐ d) Use a compass on an orienteering activity with at least 3 stops.

I discussed what kind of science, technology, engineering, or math was used in the Adventure or Option.

__________________________________________________________    __________________
Counselor’s okay                                          Date
3. Act like a Scientist! Explore each of the following.

A. With your Counselor, choose a question you would like to investigate. Here are some examples only (you may get other ideas from your adventure activities):
   i. Why do rockets have fins? Is there any connection between the feathers on arrows and fins on rockets?
   ii. Why do some cars have spoilers? How do spoilers work?
   iii. If there is a creek or stream in your neighborhood, where does it go? Does your stream flow to the Atlantic or the Pacific Ocean?
   iv. Is the creek or stream in your neighborhood or park polluted?
   v. What other activity can you think of that involves some kind of scientific questions or investigation?

B. With your counselor, use the scientific method/process to investigate your question. Keep records of your question, the information you found, how you investigated, and what you found out about your question.

C. Discuss your investigation and findings with your counselor.

☐ Requirement 3 (complete all three requirements)

☐ A. I chose a question I would like to investigate.
☐ B. I used the scientific method/process to investigate my question.
☐ C. I discussed my investigation with my Counselor

Counselor’s okay ______________________________________ Date ____________
4. Visit a place where science is being done, used, or explained, such as one of the following: zoo, aquarium, water treatment plant, observatory, science museum, weather station, fish hatchery, or any other location where science is being done, used, or explained.

A. During your visit, talk to someone in charge, about science.

B. Discuss with your counselor the science done, used, or explained at the place you visited.

☐ Requirement 4

☐ I visited ________________________________

☐ A. We talked about the science being done, used or explained there

☐ B. I discussed the visit with my Counselor.

Counselor’s okay __________________________ Date __________

5. Discuss with your counselor how science affects your everyday life.

☐ Requirement 5

I discussed with my Counselor how science affects my everyday life.

________________________________________ Date __________

Counselor’s okay __________________________