



Cub Scout STEM Nova Award 1-2-3 Go

Cub Scout and Webelos Nova award for Math

1. Choose A, B, or C and complete all requirements.
 - A. Watch an episode or episodes (about an hour total) of a show about anything related to math or physics. 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 math or physics. 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 math or physics. 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 made a list of at least two questions or ideas from what I read and watched.

I discussed the ideas and questions with my Counselor.

Counselor's okay

Date

2. Complete the Mathematic OR Computer pin

Requirement 2

I completed the pin for: Mathematics Computers

Counselor's okay

Date



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3. Choose TWO options from A, B or C. Complete ALL of the requirements for the options you choose.
- A. Choose two of the following places and calculate how much you would weigh there.
 - i. On the sun or the moon
 - ii. On Jupiter or Pluto
 - ii. On a planet that you choose.
 - B. Choose ONE of the following and calculate it's height.
 - i. A tree
 - ii. Your house
 - iii. A building of your choice
 - C. Calculate the volume of air in your bedroom.

Requirement 3

I chose to do options: A B C (choose two of the three)

Counselor's okay

Date

4. Cryptography
- A. Look up, then discuss with your Counselor each of the following:
 - i. Cryptography
 - ii. At least three ways secret codes or ciphers are made.
 - ii. How secret codes and ciphers relate to mathematics.
 - B. Design a secret code or cipher
 - i. Write a message or code in your cipher
 - ii. Share your code or cipher with your counselor.

Requirement 4

- I looked up "cryptography" and discussed it with my counselor.
- Three ways secret codes or ciphers are made
- How secret codes and ciphers relate to mathematics

- I wrote a message using my secret code or cipher
- I shared my code/cipher with my Counselor

Counselor's okay

Date

5. Discuss with your Counselor how math affect your everyday life.

Requirement 5

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

Counselor's okay

Date