

Boy Scout Nova Award Start Your Engines!



Boy Scout Nova Award for Technology

- 1. Choose A or B or C and complete ALL the requirements.
 - A. Watch about three hours total of technology-related shows or documentaries that involve transportation or transportation technology. 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 three hours total) about transportation or transportation technology. 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 three hours total). 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

Labaa					
I chose	e option:	ΠA	🗖 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 watched.				
🗆 ii.	I discussed th	e ideas and	d questions	with my Counselor	
0.000					Dete
Counselor's okay					Date

2. Complete ONE merit badge from the following list. (Choose one that you have not already used toward another Nova award.) After completion, discuss with your counselor how the merit badge you earned uses technology.

Electricity	Railroad
Energy	Small-B
Farm Mechanics	Space E
Motor Boating	Truck T
Nuclear Science	
	Energy Farm Mechanics Motor Boating

Railroading Small-Boat Sailing Space Exploration Truck Transportation

Requirement 2

I completed the Merit Badge for		
Counselor's okay	Date	



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- 3. Do ALL of the following:
 - A. Use the requirements from the above list of merit badges:
 - i. Tell your counselor the energy source(s) used in these merit badges.
 - ii. Discuss the pros and cons of each energy source with your counselor.
 - B. Make a list of sources of energy that may be possible to use in transportation.
 - C. With your counselor:
 - i. Discuss alternative sources of energy
 - ii. Discuss the pros and cons of using alternative energy sources.
- Requirement 3

	A.	 i. I told my counselor about the energy sources use in the merit badges. ii. I discussed the pros and cons of each energy source. 	
	В.	I made a list of sources of energy used in transportation.	
	C.	 i. I discussed alternative sources of energy. ii. I discussed the pros and cons of using alternative energy sources. 	
Counselor's okay Date		unselor's okay Date	



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- 4. Design and build a working model vehicle (not from a kit).
 - A. Make drawings and specifications of your model vehicle before you begin to build.
 - B. Include one of the following energy sources to power your vehicle (do not use gasoline or other combustible fuel source): solar power, wind power, or battery power.
 - C. Test your model. Then answer the following questions:
 - i. How well did it perform?
 - ii. Did it move as well as you thought it would?
 - iii. Did you encounter problems? How can these problems be corrected?
 - D. Discuss with your counselor:
 - i. Any difficulties you encountered in designing and building your model.
 - ii. Why you chose a particular energy source.
 - iii. Whether your model met your specifications.
 - iv. How you would modify your design to make it better.

Requirement 4

A. I made dra	awings and specifications of my model before I began building it.	
B. I included	power in my model.	
□ ii. □ iii.	y model. I evaluated how it performed. It moved ☐ better than ☐ as good as ☐ not as good as I thought it would. I ☐ did ☐ did not encounter problems. splain:	
□ i. □ ii. □ iii.	ed with my Counselor: Difficulties encountered in designing and building my model. Why I chose that particular energy source. If my model met my specifications. How I would modify my design to make it better.	
Counselor's okay Date		

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

Requirement 5

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

Counselor's okay

Date