BOY SCOUT NOVA AWARD - START YOUR ENGINES! (TECHNOLOGY)

Additional checkoff sheets and helps are available from ScouterMom.com.

This module is designed to help you explore how technology affects your life each day.										
1. Choose A or B or C and complete ALL the requirements.										
1A. Watch about three hours total of technology-related shows or documentaries that involves transportation or transportation technology. Then do the following:										
1B. Make a list of at least two questions or ideas from each show.										
1C. Discuss two of the questions or ideas with your counselor.										
1B. Read (about three hours total) about transportation or transportation technology. Then do the following:										
1B-1. Make a list of at least two questions or ideas from each article.										
1B-2. Discuss two of the questions or ideas with your counselor.										
1C. Do a combination of reading and watching (about three hours total). Then do the following:										
1C-1. Make a list of at least two questions or ideas from each article or show.										
1C-2. Discuss two of the questions or ideas with your counselor.										
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.										
2A. Automotive Maintenance										
2B. Aviation										
2C. Canoeing										
2D. Cycling										
2E. Drafting										
2F. Electricity										
2G. Energy										
2H. Farm Mechanics										
2I. Kayaking										
2J. Motorboating										
2K. Nuclear Science										
2L. Programming										
2M. Railroading										
2N. Small Boat Sailing										
2O. Space Exploration										
2P. Truck Transportation										

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3. Do ALL of the following.										
3A. Using the requirements from the above list of merit badges:										
3A-1. Tell your counselor the energy source(s) used in these merit badges.										
3A-2. Discuss the pros and cons of each energy source with your counselor.										
3B. Make a list of sources of energy that may be possible to use in transportation.										
3C. With your counselor:										
3C-1. Discuss alternative sources of energy.										
3C-2. Discuss the pros and cons of using alternative energy sources.										
4. Design and build a working model vehicle (not from a kit).										
4A. Make drawings and specifications of your model vehicle before you begin to build.										
4B. 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.										
4C. Test your model. Then answer the following questions:										
4C-1. How well did it perform?										
4C-2. Did it move as well as you thought it would?										
4C-3. Did you encounter problems? How can these problems be corrected?										
4D. Discuss with your counselor:										
4D-1. Any difficulties you encountered in designing and building your model										
4D-2. Why you chose a particular energy source										
4D-3. Whether your model met your specifications										
4D-4. How you would modify your design to make it better										
5. Discuss with your counselor how technology affects your everyday life.										
Completed										
Presented										