

Prework for the Energy Merit Badge



Please bring your own blue cards and workbook! They are NOT provided!

- 1) **Only do part A at home, part B will be done in class**
 - a) Find an article on the use or conservation of energy. Discuss with your counselor what in the article is interesting to you, the questions it raises, and what ideas it addresses that you do not understand.
- 2) **Only do part B at home, part A will be done in class**
 - b) Construct a system that makes at least two energy conversions and explain this to your counselor.
- 4) Conduct an energy audit of your home. Keep a 14-day log that records what you and your family did to reduce energy use. Include the following in your report and, after the 14-day period, discuss what you have learned with your counselor.
 - a) List the types of energy used in your home such as electricity, wood, oil, liquid petroleum, and natural gas, and tell how each is delivered and measured, and the current cost; **OR** record the transportation fuel used, miles driven, miles per gallon, trips using your family car or another vehicle.
 - b) Describe ways you and your family can use energy resources more wisely. In preparing your discussion, consider the energy required for the things you do and use on a daily basis (cooking, showering, using lights, driving, watching TV, using the computer). Explain what is meant by sustainable energy sources. Explain how you can change your energy use through reuse and recycling

* We will be talking about these topics during the badge but try to include as much of this as you can in your log!
- 8) Find out what opportunities are available for a career in energy. Choose one position that interests you describe the education and training required.