**A Household of the Future** Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Date  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Hour \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Problem:** How could renewable energy sources be used to meet a household’s needs?

**Directions:** In this activity students need to design a home and a car of the future that can operate entirely on renewable energy sources. Students need to apply what they have learned about renewable resources (green 714-719) and create a futuristic home and car. Students designs may incorporate either current or “futuristic” devices that use any or all of the following renewable energy sources: solar energy, energy from flowing water, tidal energy, biomass fuels, geothermal energy, hydrogen power and nuclear fusion (but not nuclear fission, which is a nonrenewable energy source) Your designs must address the following four household needs heating/cooling, hot water, electricity, and transportation. Although you may add other energy sources if you wish. Designs can be devices that already exists or ones that might be developed in the future.

**Checklist**

\_\_\_\_ Research: You must include background information on the energy sources that you use. This can include the assignment “Alternative Energy Resources Intro”.

\_\_\_\_ Blueprint: You must have a large, colored, detailed and labeled illustration or design of your home and car.

\_\_\_\_ Explanation: You must have an explanation of your design. This can be written up in an essay format or written as captions on your blueprint.

\_\_\_\_ Household needs: You must use renewable energy sources to provide

 -the heating and cooling in your house/car

 -the hot water in your house/car

 -electricity in your house/car

 -transportation

**YOU MUST TURN THIS RUBRIC IN WITH YOUR PROJECT!!!**