Name: Date: Block:

**Alternative Energy Research Project**

Work, Energy, and Power Unit

**Background:**

As part of our Work, Energy, and Power Unit we are studying renewable and nonrenewable energy resources. Renewable energy resources can be replaced in a relatively short period of time. Examples include hydroelectricity, solar energy, geothermal energy, wind energy, biomass energy, and nuclear power. Non-renewable energy resources exist in limited quantities, and once used, cannot be replaced except for over the course of millions of years. Examples include oil, natural gas, coal, and uranium.

**Research Project:**

Research a renewable energy resource and prepare a presentation that will be shared with the class. Use books, the internet, and our textbook. Information should be found regarding history of the resource, the process/how this energy is generated, pros and cons of using the resource, and examples of where this source of energy is being used currently, including how much of this energy is used in NH and the United States. You must build a model, create a poster board, or design a power point presentation with information about your energy resource. You must also prepare a written summary that includes a description of the energy resource, advantages and disadvantages of the energy resource, U.S. & NH percent usage of the energy resource, and a works cited page that includes all sources used during research.

**Timeline:**

**Red Day Classes**

* Research due Thursday April 16th
* Summary due Monday April 20th
* Completed Project due Wednesday April 22nd

**Black Day Classes**

* Research due Friday April 17th
* Summary due Tuesday April 21st
* Completed Project due Thursday April 23rd

**Possible Resources (books about energy the NHS Library are in our classroom):**

* NY Dept. of Environmental Conservation <http://www.dec.ny.gov/energy/40899.html>
* NH Dept. of Environmental Services <http://des.nh.gov>
* Renewable Energy for America <http://www.nrdc.org/energy/renewables/>
* U.S. Dept. of Energy <http://energy.gov>

 <http://energy.gov/science-innovation/energy-sources/renewable-energy>

* Institute for Energy Research <http://instituteforenergyresearch.org>
* Univeristy of Maryland Energy Research Center <http://www.energy.umd.edu>
* University of New Hampshire <http://www.unh.edu/facilities/energy-utilities>

<http://extension.unh.edu/Natural-Resources/Energy-Information>

* Frontiers in Energy Research <http://www.frontiersin.org/Energy_Research>
* “Energy Kids” <http://www.eia.gov/kids/>
* “Energy Story” <http://www.energyquest.ca.gov/story/>
* Renewable Energy Resources <http://www.aresearchguide.com/energy.html>
* Alternative Energy <http://www.altenergy.org/renewables/renewables.html>
* Energy <http://www.ucsusa.org/our-work/energy/our-energy-choices/our-energy-choices-renewable-energy#.VSfgwlztY2w>
* Renewable Energy <http://www.renewableenergyworld.com/rea/tech/home>