**Group Names \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Energy Awaits YOU…**

You have been asked to become the expert on a specific energy source. You and your teammate(s) will have a specific energy source to research and become experts on so that you can educate your classmates. You will then give a short presentation on what you have learned and create a poster to present to your classmates.

Energy List:

|  |  |
| --- | --- |
| Solar | Geothermal |
| Nuclear | Hydroelectric |
| Coal | Petroleum |
| Natural Gas | Wind |
| Biofuels (Ethanol, Biodiesel) | Tidal |
| OTEC |
| Hydrogen fuel |

The following items are REQUIRED in order to receive full points for the assignment.

|  |  |  |
| --- | --- | --- |
| Requirement | Points **EARNED** | **POSSIBLE** points |
| * How does your energy source work? Include a large, detailed, hand drawn diagram of how this energy source is used to generate power. |  | **5** |
| * Is your energy source renewable or nonrenewable? What are the environmental effects? |  | **5** |
| * What are the pros? (benefits) |  | **5** |
| * What are the cons? (drawbacks) |  | **5** |
| * What does it cost to start-up? What is the energy cost once it is running? Please include units and currency (dollars, cents, etc.) |  | **5** |
| * Would you recommend this energy source? Why or why not? |  | **5** |
| * Creativity and neatness of your poster |  | **5** |
| * Presentation (1-2 minutes, discuss poster/type of energy) |  | **9** |
| * Presentation day completion of energy sources organizer |  | **6** |
| TOTAL POINTS |  | **50** |