Name: ______________________

**Sustainable Energy Evaluation**

**Background**
Sustainable energy is a major concern for civilizations. The costs and benefits of each type of energy source is an ongoing discussion around the world. Through careful research and analysis of the aspects of each type of resource, could you make a choice for the future of mankind?

**Problem**
Which energy resources are the best choices for the future?

**Materials**
- Computer/device with internet access

**Instructions**
Research the following information about your resource.

<table>
<thead>
<tr>
<th>Category</th>
<th>Ideas for Writing</th>
<th>Value</th>
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</table>
| History and Discovery of the Resource | -What is the resource?  
-When/where was it discovered/created?  
-Who discovered/created it?  
-Why was it discovered/created? (What problem was trying to be solved? Was it created on accident?)                                                                                     | 5 points |
| Science of the Resource               | Provide as many of these things as you can find:  
- Chemical Formula (elements)  
- Structure / model of compound  
- How is the energy from this resource generated? Is there more than one way to utilize it?                                                                                       | 10 points |
| How the resource impacts your life    | -What is it currently being used for (transportation, home electricity, etc..)?  
- How is it used in your life?                                                                                                                                                     | 5 points |
| Economic Impacts                      | -How is it cost effective?  
-What are the costs to build and maintain?  
- Are the costs upfront in building or from extracting the resource?                                                                                                             | 5 points |
| Environmental Impacts                 | -What type of emissions are produced?  
-Does it produce any harmful waste? How is waste managed?  
-At what point during its use is any waste produced? (extraction, during process, after process...)                                                                               | 5 points |
Future of the resource
- How could the process be improved even more?
- Is it renewable or non-renewable? What does this mean to its sustainability?
- Is the use of this resource currently growing? Why? At what rate?

Recommendation for the resource
- Do you feel more should be invested into utilizing this resource?
- Use evidence from your research to support your choice. (statistics, patterns/trends, environmental impact, etc...)

Scientific Content
- Are science terms used correctly?
- Are there any grammar and spelling errors?
- Can a reader understand the concepts presented?

The student has documented sources completely, including in-text citations when appropriate.
- Are there citations, as appropriate?
- Is there a Works Cited page with at least 5 sources documented correctly with MLA or APA format?
- Did you support with evidence from credible sources?

Presentation Length
- 8-10 minute presentation

Presentation Skills
- Eye contact, voice clarity, posture, etc...

Visual Aid
- Neatness, images, appropriate length, overall effort

Total Points Possible: 85 points

Presentations Start Date: Visual Aid Due Date: