Energy 101 Project Energy Source: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Standards Covered:   
S8P2. Students will be familiar with the forms and transformations of energy.

a. Explain energy transformation in terms of the Law of Conservation of Energy.

c. Compare and contrast the different forms of energy (heat, light, electricity, mechanical motion, and sound) and their characteristics.

Group Members: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Decide:

* Type of visual aide: Poster \_\_\_\_

Prezi \_\_\_\_

Diagram \_\_\_\_

Other (Teacher approved) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Presentation needs to be 8-10 minutes using [www.flipgrid.com](http://www.flipgrid.com) or another web source similar to it.
* What are 3 – 5 major points students should understand

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* Develop a handout for the students to take notes on. It should include the major points and material that will be covered in your presentation. **Due January 16, 2019\_**
* Develop 5 multiple choice questions on your energy source for a quiz on Energy Form. **Due January 17, 2019\_\_**
* Choose a Date to present:  **\_\_\_\_\_**

**\_\_\_\_\_**

* Who is doing what? Research \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Visual Aid\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Handout\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

References\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Test Questions\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Energy 101 Project: Due \_Januay 18, 2019\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

You will teach the class about your chosen energy Form. Your presentation needs to last 8-10 minutes.

Types of Energy you can choose from:

Thermal/Heat

Radiant/Light

Electrical/Electricity

Chemical

Mechanical

Motion/Kinetic

Potential/Positional

Nuclear

Sound

Things you need to include in your research:

1. Sources of Energy
2. Does the energy transform from one form to another? Which ones?
3. How does this energy work?
4. What are the main uses?
5. Where can it be found?
6. What are the main components?
7. Interesting facts or tidbits.
8. Any relative diagrams.

Don’t forget to write down any references you use in your research.

Scoring: Here is a Rubric for your Project to be graded.

Category Description 20 pts. 15 points 10 points 5 points

Exceeds Expectations Meets expectations missing one or more half or more

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Logistics | Name on paper  Source Listed  Block listed |  |  |  |  |
| Handout and Test Questions | The handout was complete and identified important points. Test questions reflected information given |  |  |  |  |
| Presentation | 8-10 minutes long |  |  |  |  |
| Information Presented | Information was presented in a logical way, that was easy to understand |  |  |  |  |
| Visual Aide | Colorful  Original  Applicable |  |  |  |  |