Name: Click here to enter text.

*Directions:* Using the internet, you and your elbow partner will take a more in depth look into the forms of energy that were introduced yesterday. In *Italics* are the directions for each section. You will turn this WebQuest in digitally through my website (directions on page) when complete.

**First Law of Thermodynamics ~Albert Einstein**

*Break the word apart and define each part of the word separately.*

Thermo- Click here to enter text.

Dynamic- Click here to enter text.

*Now, in your own words, provide a definition for the whole term “Thermodynamics” below..*

Click here to enter text.

**Thermal Energy**

*Provide definitions for each of the following terms related to thermal energy*

Conduction- Click here to enter text.

Radiation-Click here to enter text.

Convection-Click here to enter text.

Conductor-Click here to enter text.

Insulator-Click here to enter text.

**Radiant Energy**

*Find two examples on the internet and explain how they “radiate” energy.*

Example 1- Click here to enter text.

Example 2- Click here to enter text.

*Using the internet, find and insert a picture that shows one of the examples from above in action.*



**Electrical Energy**

*Think about your home and create a list of TEN devices that use electrical energy within it.*

|  |  |
| --- | --- |
| 1. Click here to enter text. | 6. Click here to enter text. |
| 2. Click here to enter text. | 7. Click here to enter text. |
| 3. Click here to enter text. | 8. Click here to enter text. |
| 4. Click here to enter text. | 9. Click here to enter text. |
| 5. Click here to enter text. | 10. Click here to enter text. |

*Find a graph that breaks down the United States electrical energy consumption and import it below (right). What are the top three used electrical devices (left)?*

|  |  |
| --- | --- |
| 1. Click here to enter text.  2. Click here to enter text.  3. Click here to enter text. |  |

**Mechanical Energy**

*In your own words, describe “mechanical energy”.*

Click here to enter text.

*Find an example of mechanical energy and explain why your image is a good example of mechanical energy.*

|  |  |
| --- | --- |
|  | Click here to enter text. |

**Chemical Energy**

*Imagine that your elbow partner happened to be absent for yesterday’s class. How would you describe what “chemical energy” is to them?*

Click here to enter text.

*Provide four examples of chemical energy sources below:*

|  |  |
| --- | --- |
| 1. Click here to enter text. | 3. Click here to enter text. |
| 2. Click here to enter text. | 4. Click here to enter text. |

C:\Users\Admin\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\26XU1ZWH\MC900287131[1].wmf**Nuclear Energy**

*In your own words, explain the operation at a nuclear power plant to create electrical energy.*

Click here to enter text.

*What is the most commonly used “fuel” used in a nuclear reactor to generate electricity?*

Click here to enter text.

**Renwable and Nonrenewable Energy**

*Find and import a picture that shows each of the energy sources that are listed below and insert it into the correct column. There will be three that fit into each category when completed correctly.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Solar Cell | Coal | Hydroelectric Dam | Gasoline | Wind Turbine | Natural Gas |

|  |  |
| --- | --- |
| **Renewable** | **Nonrenewable** |
|  |  |
|  |  |
|  |  |