**Who: Groups of 2 or less**

**When: See Calendar attached**

**What: Research and present either a renewable or nonrenewable energy source**

**Where: Once you have your topic, look at the index below to see what page numbers the topic is on in your book**

*Coal – pg 523-524*

*Oil – pg 525-526*

*Natural Gas- pg 526-528*

*Nuclear Energy – pg 537-540*

*Biomass- pg 551-553*

*Geothermal- pg 553-555*

*Hydropower- pg 557-559*

*Ocean Energy pg 559-560*

*Solar- pg 562-566*

*Wind – pg 566- 569*

*Hydrogen – pg 571-572*

*Fuel cells- pg 572- 573*

Name of People in Group:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Topic:

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**Worksheet #1: This should be completed by the end of class. Everyone in the group must complete it.**

1. In the box below write down all of the vocabulary words from your section and the definitions:

2. Write down the main heading (they are in blue in the book) below. Also write down the key concept with it.

3. Write down the sub headings below (they are in green in the book). Then write down two facts to support the subheading.

4. Finally, write down any other facts from your book that you think should be included in your power point

**Part 1: PowerPoint Presentation:**

 Guidelines:

* Your power point presentation must be 10 slides
* You must have one slide that is a cutting edge use of this technology (i.e what is the newest use of this technology?)
* You must have one slide that is works cited page
* Your power point must have all of the facts listed on worksheet #1 on it.
* You must have at least one picture per slide
* Remember, you are making this power point to teach your classmates about a type of energy. So please make sure that your PowerPoint is readable and that you know every word on your PowerPoint.
* **Important Note: Copy and Pasting from a website that is not cited and not in quotation marks will be an automatic 30 points off of your project**
1. In the box below write down five questions from your project that you think should be on the quarterly.

Part 2: Pick **one** option from the list below:

1. Make an **elaborate** drawing of a device that uses your form of energy and label the different parts. ( pencil on a piece of notebook paper is not elaborate) It must be on a posterboard.
2. Design and make a prototype of a new device that will run solely on your type of energy. **Be Creative!!!!**
3. Make a short movie, where the form of energy is included in the plot, this may be a drama, documentary, comedy or horror. **Be Creative!!!**

Grading:

* Worksheet #1 will be worth 3 homework grades
* PowerPoint presentation- Part 1- Will be worth 2 test grades ( see rubric below)
* Creative Options- Part 2- Will be worth 1 test grade
* Completing notes packet while other students are presenting- 1 homework grade

The originality part of the rubric will be used to grade part 2.

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| --- | --- | --- | --- | --- |
| CATEGORY  | **4**  | **3**  | **2**  | **1**  |
| **Content**  | Covers topic in-depth with details and examples. Subject knowledge is excellent.  | Includes essential knowledge about the topic. Subject knowledge appears to be good.  | Includes essential information about the topic but there are 1-2 factual errors.  | Content is minimal OR there are several factual errors.  |
| **Mechanics**  | No misspellings or grammatical errors.  | Three or fewer misspellings and/or mechanical errors.  | Four misspellings and/or grammatical errors.  | More than 4 errors in spelling or grammar.  |
| **Attractiveness**  | Makes excellent use of font, color, graphics, effects, etc. to enhance the presentation.  | Makes good use of font, color, graphics, effects, etc. to enhance to presentation.  | Makes use of font, color, graphics, effects, etc. but occasionally these detract from the presentation content.  | Use of font, color, graphics, effects etc. but these often distract from the presentaion content.  |
| **Requirements**  | All requirements are met and exceeded.  | All requirements are met.  | One requirement was not completely met.  | More than one requirement was not completely met.  |
| **Oral Presentation**  | Interesting, well-rehearsed with smooth delivery that holds audience attention.  | Relatively interesting, rehearsed with a fairly smooth delivery that usually holds audience attention.  | Delivery not smooth, but able to hold audience attention most of the time.  | Delivery not smooth and audience attention lost.  |
| **Sources**  | Source information collected for all graphics, facts and quotes. All documented in desired format.  | Source information collected for all graphics, facts and quotes. Most documented in desired format.  | Source information collected for graphics, facts and quotes, but not documented in desired format.  | Very little or no source information was collected.  |
| **Originality**  | Product shows a large amount of original thought. Ideas are creative and inventive.  | Product shows some original thought. Work shows new ideas and insights.  | Uses other people\'s ideas (giving them credit), but there is little evidence of original thinking.  | Uses other people\'s ideas, but does not give them credit.  |