**Electricity Unit Project Based Learning Assignment**

**Make your own Electrical Cell!**

Grading: 50% written work 50% project as follows

Written:

**Introduction:** 10 marks (Background information on the project and why it is important (should have at least 2 references)

**Purpose** 2 marks (What are you testing and why))

**Hypothesis** 3 marks (What is your hypothesis)

**Materials and Methods** 9 marks (as in any lab)

**Results** 9 marks (tables and graphs, all of your observations)

**Conclusion and Discussion** 10 marks (Why did what happened, happen? Talk about it, Future directions, and sources of error – should have at least one reference)

**Works Cited** 7 marks (must be at least 3, please see the attached “how to” document, your textbook can be 1 of the 3)

Project: Need to generate your own electricity. Some ways of doing this are as follows (there are more, google it):

* Hydro
* Wind
* Chemical
* Solar
* Magnetic
* Heat/steam
* Human

You must also have a load (the thing that uses electricity), which may include but is not limited to:

* A light
* A clock
* Car
* Moving object
* fan

**Marks:**

**Originality**: 10 marks

**Does it work**: 15 marks

**Is it useful**: 10 marks

**Is it safe**: 10 marks

**Is it fun**: 5 marks

**Score Sheet**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Marks | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| **Written** |  |  |  |  |  |  |  |  |  |  |
| Introduction |  |  |  |  |  |  |  |  |  |  |
| Purpose |  |  |  |  |  |  |  |  |  |  |
| Hypothesis |  |  |  |  |  |  |  |  |  |  |
| Materials & Methods |  |  |  |  |  |  |  |  |  |  |
| Results |  |  |  |  |  |  |  |  |  |  |
| Conclusion |  |  |  |  |  |  |  |  |  |  |
| References |  |  |  |  |  |  |  |  |  |  |
| **Project** |  |  |  |  |  |  |  |  |  |  |
| Originality |  |  |  |  |  |  |  |  |  |  |
| Does it work |  |  |  |  |  |  |  |  |  |  |
| Is it Useful |  |  |  |  |  |  |  |  |  |  |
| Is it Safe |  |  |  |  |  |  |  |  |  |  |
| Is it Fun |  |  |  |  |  |  |  |  |  |  |
| Sub-Total |  |  |  |  |  |  |  |  |  |  |
| Project Total  and  Notes |  | | | | | | | | | |