“[All truths are easy to understand once they are discovered; the point is to discover them”](http://www.brainyquote.com/quotes/quotes/g/galileogal136976.html) - [Galileo Galilei](http://www.brainyquote.com/quotes/quotes/g/galileogal136976.html)

What is dark matter? Have you ever seen the movie *Angels and Demons*? Could dark matter really be compared to a weapon or is that just science fiction? The Higgs-Boson would explain why things have mass, but was it recently discovered? What does its discovery mean for our knowledge of the world around us? There are many topics in our universe that still need to be discovered and understood. Your book briefly discusses the topics listed below; it will be your job to provide further information for your fellow classmates.

**Assignment Dates:**

* ***December 15th and 16thth*** – You will have two days in the computer lab to research your topic
* ***December 17th, 2012*** – Project is selected and approved by Mrs. Fergusson
* ***January 12th, 2013*** – Projects are due. Students will also present their projects on this date.

For this assignment you will research *one* of the following topics:

* Dark Matter
* Anti-Matter
* Higgs-Boson

Your project will consist of *three parts*:

* 2 page paper summarizing your topic
* A project of your choice that incorporates religion and your chosen topic.
  + You will need to submit your project idea to Mrs. Fergusson by December 20, 2012
    - Mrs. Fergusson will sign off on your project idea on the rubric page.
    - You will need to submit your rubric page with your paper and project.
  + Examples of projects: PowerPoint presentation, a poster, a diagram, create a website, etc. Please feel free to be creative.
* You will also need to have five sources of scholarly information for this project. You may also include no more than 2 videos as sources
  + Series like Through the Wormhole & The Universe would be a good place to start; you can find a lot of these series on YouTube.
  + You may also want to look at CERN’s website for more information on your topic.

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Research Topic: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Paper Rubric – 60 points*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Category | 10 | 8 | 6 | 4 | 0 |
| **Sources** | All sources (information and graphics) are accurately documented in the desired format. | All sources (information and graphics) are accurately documented, but a few are not in the desired format. | All sources (information and graphics) are accurately documented, but many are not in the desired format. | Some sources are not accurately documented. | No sources are documented |
|  | 20 | 15 | 10 | 5 | 0 |
| **Organization & Paper Length** | -Information is very organized with well-constructed paragraphs and subheadings.  -Paper is 2 pages in length | -Information is organized with well-constructed paragraphs.  -Paper is a page and a half in length | -Information is organized, but paragraphs are not well-constructed.  - Paper is a page in length | -The information appears to be disorganized.  -Paper is less than half a page in length | No organization, the student’s writing makes no logical sense |
|  | 20 | 15 | 10 | 5 | 0 |
| **Quality of Information** | Information clearly relates to the main topic. It includes several supporting details and/or examples. | Information clearly relates to the main topic. It provides 1-2 supporting details and/or examples. | Information clearly relates to the main topic. No details and/or examples are given. | Information has little or nothing to do with the main topic. | Information has nothing to do with the main topic |
|  | 10 | 8 | 6 | 4 | 0 |
| **Mechanics** | No grammatical, spelling or punctuation errors. | Almost no grammatical, spelling or punctuation errors | A few grammatical spelling, or punctuation errors. | Many grammatical, spelling, or punctuation errors. | Paper has over 50% of grammatical, spelling, or punctuation errors |

Grade: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Notes:

Project Title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Project Media: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Teacher Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Project Rubric – 60 points*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Category | 10 | 8 | 6 | 4 | 0 |
| Presentation | Well-rehearsed with smooth delivery that holds audience attention. | Rehearsed with fairly smooth delivery that holds audience attention most of the time. | Delivery not smooth, but able to maintain interest of the audience most of the time. | Delivery not smooth and audience attention often lost. | Student does not present project |
|  | 10 | 8 | 6 | 4 | 0 |
| 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 presentation content. | Project is not legible. |
|  | 10 | 8 | 6 | 4 | 0 |
| Organization | Content is well organized using headings or bulleted lists to group related material. | Uses headings or bulleted lists to organize, but the overall organization of topics appears flawed. | Content is logically organized for the most part. | There was no clear or logical organizational structure, just lots of facts. | The project is hard to follow and the work is difficult to follow. |
|  | 30 | 20 | 10 | 5 | 0 |
| Content | -Covers topic in-depth with details and examples.  -Subject knowledge is excellent.  - Project makes a clear and knowledgeable  connection between religion and the topic area. | -Includes essential knowledge about the topic.  -Subject knowledge appears to be good.  - Project makes a vague connection between religion and the topic area. | -Includes essential information about the topic but there are 1-2 factual errors.  -Project does not connect the topic area and religion | -Content is minimal OR there are several factual errors.  - Project does not discuss religion | - Content is poor with very little information |

Grade: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Notes: