Creative Physics Story

Project Guidelines:

* You will write a 2 – 3 page creative story that includes a phenomenon involving physics and a famous scientist(s). You will use your imagination to create a story involving a famous scientist(s) where a phenomenon in physics is interwoven into your story. If you prefer, you may consider your scientist(s) to be an animal or an inanimate object. The phenomenon may pertain to anything you have or have not learned in physics. Consider any of the laws of nature that you are familiar with, including forces, energy, mass, momentum and charge conservation, waves, etc. Have ***PHUN!***
* Write 2 – 3 page story (**double spaced/ Times New Roman/12 point font**)
  + Include:
    - Work the story around a minimum of three characters (it does not matter if they were all alive at the same time or not). Characters may be real people in your story, animals, or even inanimate objects. You may include your fellow classmates as part of your story, though I ask that you be respectful. ***BE CREATIVE.***
    - Use anything that you have learned in physics to explain a problem that you have woven into your storyline. The problem may pertain to an event involving motion, forces in nature (gravitation, electrostatic, magnetic, etc..), waves, energy, momentum, or anything else you have learned.... or haven't yet learned in physics. ***BE CREATIVE.***
    - In the end, make sure that the phenomenon at the center of your story can be explained through the use of simple physics involving some mathematical relationship(s) we use or may use in physics.
* **Mathematical Problem(s):** Most, if not all problems involving physics, can use the application of mathematical relationships to help make sense of an observed phenomenon.
  + Include:
    - Your analysis of whatever phenomena you choose must include a minimum of two calculations on a ***separate sheet of paper*** that provides a clear mathematically summarization of the event(s). The problem(s) may use mathematical relationships that we have already covered in class, or those that we have not, or will not, because they are not part of the course. As long as it is legitimate, then that is fine. The calculation(s) must provide a clear connection to the phenomena woven into your story.

**Grading Rubric:**

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| --- | --- | --- |
| Total Points | Description | Points |
| 10 | The author tells a story, which has a nice flow to it and is entertaining to the reader (me). |  |
| 5 | A phenomenon in physics is woven into the story in a thorough and well thought out manner. Proper physics terminology and application of concepts are used. |  |
| 5 | Grammar, spelling and punctuation. |  |
| 10 | Mathematical problems are neatly worked out showing the formula(s), substitution with units and a final answer with units as well. |  |
| 30 | Total Points Earned: |  |

**Due Date:**

* March 30, 2020