**AP Physics 1 Summer Assignment 2017**

Welcome to AP Physics 1! I am excited to begin our journey through the best subject you will ever have the pleasure to study. Yes, physics is that awesome. Your summer assignment consists of a small reading assignment, a math review worksheet, and a phun physics project. On the Friday of the first week of school, there will be a quiz on the reading on which you are allowed to use any notes you take on the reading. Your math packet will also be due on that Friday.

The reading assignment is a short introduction to physics and some practices you will be using throughout the course. It is chapter 1, sections 1-5 (1.1-1.5) of your physics textbook by Giancoli. To access the online version of the textbook, go onto my website, the AP Physics page, and scroll down until you see the instructions for “E-Text Access.” Follow the instructions to create an account. Once you have created the account, you will have access to the online textbook. I would bookmark the textbook login page (many students found the online textbook a great help) and the AP physics website – you will utilize both frequently throughout the year. Email me immediately if you have any issues logging in.

In physics, math is an important tool for not only problem solving, but for understanding the concepts. Sir Isaac Newton even invented calculus as a means of delving deeper into the wonder that is physics. As a result, it is important that you are mathematically prepared to begin this course. The only required prerequisite course is Geometry, and though you are expected to at least be concurrently enrolled in Algebra II, the more math you have, the better off you will be. The math packet is a review of basic mathematic practices you will utilize frequently throughout the year.

Your phun physics project is to help you start seeing the physics all around you! You need to choose a youtube clip (no more than 1:30 in length) that either shows some good physics, some bad physics (think Hollywood), or something that you’ve always been curious about knowing the answer to (something that made you think “would this really work?!”). Clip must be PG-13 in nature and school-appropriate (no nudity, foul language, etc.). You must share a Google doc with me (lonifuller1@gmail.com) with a link to the clip PRIOR to the first day of school with the time interval of the clip (if applicable) and your FULL NAME as the doc title. Also in the Google doc, you will include a few notes about the related physics of your chosen clip. During the first week of school, you will share your clip and explain the related physics with the class. When you present, you may have a 3x5 notecard with your notes (the ones you included in the doc). This may require you doing a little bit of research to explain the physics, or why something is not physics-accurate. Feel free to email me if you need help with any element of the project, or if you have any questions. Sample clip and explanation is on the course website.

If you find yourself struggling with anything, do not hesitate to email me. Just because you are struggling does not mean you are not cut out for AP physics, it just means you might need to review a little more to be ready for it. Instantly knowing the material is not what will enable you to excel, but rather hard work, determination, and the wisdom to ask for help are what will enable you to excel.

**Assignment Summary**:

* Reading – 1.1-1.5, quiz on **Friday of first week of school (Aug. 18)**, you are allowed to use any notes you take
* Math packet – to be turned in on **Friday of first week of school (Aug. 18)**
* Phun Physics Project – Google doc with link and physics notes due **Monday, Aug. 14**

The Google doc title should be your full name. Example: Loni Fuller (AP Physics)

 Be ready to share your clip and explanation on the first day of school (Aug. 16)

Enjoy your summer and I look forward to seeing you soon!

Ms. Fuller

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