

A.P. Physics 1 Summer Assignment 2021

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Google Classroom: A.P. Physics 1 2021-2022 Summer Assignment

Class Code: 4c64kpy

INSTRUCTIONS:

1. You can find the assignment in the A.P. Physics 1 2021-2022 Summer Assignment Google Classroom under the Classwork tab. It is the only assignment there.
2. Fill in your answers in the Google Form attached to the assignment. It is the only Google Form attached to the assignment.
3. As you complete the various sections of the assignment make certain to save your work.

Welcome to A.P. Physics 1

"All of physics is either impossible or trivial; it is impossible until you understand it, then it becomes trivial." --
Ernest Rutherford

This assignment is due the first day of class in A.P. Physics 1. It is going to require a minimum of two weeks to complete depending upon how comfortable and efficient you are with: watching eight hours of instructional videos; doing a couple of hours of research; a few hours of exercises; watching ten hours of television shows and a feature-length movie...and reading a book. If some of that sounds more like fun than work—it should!

You're going to start by watching a series of videos from YouTube's "Physics Girl" Dianna Cowern. She is a delightful person with a knack of explaining things in a fun way. You'll follow this up by acquiring the necessary Vocabulary. Physics is much easier to understand if you've heard the words before and in the appropriate context--that's why you watch Physics Girl first!

After that it's time to brush up on some science basics: Scalars & Vectors; S.I. Units; S.I. Prefixes; Scientific Notation; Accuracy & Precision; and Significant Figures. Each of these activities and concepts is fairly simple and will directly service things you will do during physics labs and problems...as long as you're not trying to rush them in the last days before school starts.

So space things out over the summer because you're going to want some time for the other three activities and it's best to do them after you've watched Physics Girl and while you're working on the exercises. To reinforce the vocabulary of physics and expose you to more of the concepts and world of science you will watch ten episodes of science-oriented television/streaming/internet and one science-oriented feature-length film. You will also read one "hard" science-fiction novel.

Hopefully you will find this different, fun, interesting and even a little inspiring. And most importantly, you will be walking in to A.P. Physics 1 with the previous exposure to physics that you need to succeed in a college-level physics class!