

Advanced Placement Physics "C" Course

Summer Assignment for School Year 2015/2016

This summer assignment is a review of topics from honors physics. You are expected to take notes on Chapter 2 from your AP Physics textbook (Fundamentals of Physics, Halliday & Resnick, 10th Edition). You are also expected to complete the problems listed below in a neat, well organized manner. As previously outlined in honors physics, the solutions to these problems should include the steps that lead from the basic equations through to the final solution. There are answers to the odd problems in the back of the book to check your methodology. Please keep your notes, problem solutions, and a space for future lab reports in a 3-ring binder.

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Assignments due on the first day of class (Required to stay enrolled in AP Physics):

1. Notes on Chapter 2 & 4
2. Solutions to problems listed below
3. Notebook with notes, problem solutions, and space for lab reports

Chapter 2: Motion Along a Straight Line

o Problems on page 32: 2, 5, 13, 15, 17, 19, 20, 25, 33, 35, 41, 79

Chapter 4: Motion in Two and Three Dimensions

o Problems on page 84: 5, 8, 23, 25, 36, 42

Enjoy your summer but don't procrastinate on the assignment. Remember that ole' man Schack was young once and he too thought he could do similar assignments the night before they were due - boy did he spend a lot of money on Alka-Seltzer, coffee, Visine, and hair replacement products!

DO NOT BE INTIMIDATED BY THE CALCULUS! THE CALCULUS THAT WE NEED IN THIS COURSE IS NOT AS COMPLICATED AS THE BOOK PRESENTS. ALSO, YOU WILL GET UP TO SPEED QUICKLY IN YOUR CALCULUS COURSE ON THE CONCEPTS THAT WE DO NEED.