

AP Physics Summer Work 2018

Congratulations on deciding to Challenge Yourself by accepting the challenge of AP Physics 1. You must know up front that this class by its very nature must move very rapidly during the school year in order to come close to mastering all the topics included on the AP Exam. This class is NOT just an extension of Introductory Physics. You will

- Prepare to see that Physics is EVERYWHERE
- Appreciate how math helps us understand the world around us
- Do some very cool labs
- Have Fun

You will be expected to:

- Read every assigned chapter in the book
- Attempt every HW problem Assigned
- Study outside of class – virtually every day
- Come See your Teacher as soon as you are confused about something
- Work HARD

You must complete a summer assignment that will include most of the work in the first 3 chapters of the textbook. This is considered review. The work is due on the first day of school next year. **It will count for a test grade!** Every problem must be, at the very least, attempted with a strong effort. If problems are left blank or poor effort is shown, the assignment will not be accepted. You must show all relevant equations used to solve the problem and you **MUST SHOW YOUR WORK**. I **WILL NOT ACCEPT ANY WORK LATE!!** You can do it whenever you choose during the summer however I do not recommend that you wait until August to begin to attempt it. You may email me at kozak.james@whrsd.org at any time with any questions you have.

Save your completed assignment for the first day of Academic Year 2017-2018. For this assignment, “CQ” will refer to the Conceptual Questions section at the end of a chapter. “P” will refer to the Problems section at the end of the chapter.

Throughout the year, you will receive definitions, equations, or important concepts from your reading or from lectures in class. You should keep a glossary of these terms, a *Key Terms List*, in a separate section of your notes. Begin with the **bolded terms** in your summer assignment, along with any ideas and equations you feel are important.

Ch 1

Read Chapter 1, follow Example problems closely

CQ: 1, 3, 9, 10, 12, 13

P: 3, 7, 11, 12, 13, 23, 29, 32, 33, 41,

Ch 2:

Read Chapter 2, follow Example problems closely

CQ: 1, 3, 5, 9, 12, 13,

P: 1, 4, 7, 16, 21, 23, 39, 41, 51, 57, 58, 59,

Ch 3:

Read Chapter 3, follow Example problems closely

CQ: 2, 5, 7, 11, 15, 16

P: 1, 3, 13, 17, 21, 22, 29, 39, 47, 48, 52

Complete the “Measuring Acceleration with Photogates Prelab” found on <http://thephysicsaviary.com/Physics/Programs/Labs/MeasuringPhotogateAccelerationPrelab/index.html> Record your data and calculations on a separate sheet of paper.

Have a good summer, rest up and come back ready to work.

-J Kozak