

AP/KAP Physics---Summer Assignment 2019
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Course Text: Physics for Scientists and Engineers, 9th Edition by Serway & Jewett

Assignment:

- 1) Email me (see above) so I can share the online version of the textbook via Google Apps
- 2) In Appendix B, “Mathematics Review”, read sections B.1-B.4 (pages A-4 to A-13)
- 3) If needed, complete the exercises in sections B.1-B.4. This will NOT be collected. Complete the exercises only if you feel you need the practice. Your math skills need to be stellar to be in this course
- 4) Read the textbook chapters 2 & 3
- 5) Complete these problems:
 Chapter 2 (pg. 51-57) #1, 14, 17, 19, 26, 30, 33, 35, 48, 51, 66 & 72
 Chapter 3 (pg. 73-75) #16, 20, 24, 26, 27, 38 & 43

Note: These problems are not calculus-based. We will start with calculus the first week of school

The purpose of the summer assignment:

- 1) To acquaint the student with important math skills required to do AP/KAP Physics
- 2) To acquaint the student with the types of problems he/she is expected to handle during the course
- 3) To save about two weeks of instruction time at the beginning of the school year
- 4) To review material/concepts/skills for students who have a credit in Physics
- 5) To introduce new material/concepts/skills required for the course for students new to Physics

How will this assignment be assessed? What type of feedback will be provided to students?

When will this occur?

The summer assignment problems from chapters 2 & 3 will be collected during the first week of school. It will count towards the 1st nine weeks grade. Also, a quiz will be given (probably Friday, August 23rd, 2019) to check understanding on concepts learned in chapters 2 & 3.

You may email me at any time during the summer if you have questions about the summer assignment including guidance on how to solve/start the problems.

Other important things:

- 1) Show all work when solving the above problems. Physics is a process; the procedure to get to the answer is just as important as the answer itself.
- 2) Include units on all numbers you write—even in the work shown to get to the answer.
- 3) All final answers are to be reported to THREE significant figures. This is an all-year expectation.
- 4) Don't wait until the night before school starts to begin the summer assignment. It is expected that on the first day of school, Wednesday, August 21st, you have given the summer assignment 100% effort to get it completed. There will be some time the first week to ask questions, but not much.