

AP Physics 1

Welcome to AP Physics 1 at OMHS! Here is your summer assignment, **due the first day of class**. The first thing you do is to join the AP Physics 1 Summer Google Classroom (join code [idi82v](#)). Your summer assignment is listed there. Also, I will use Google Classroom for posting updates, and you can use it for asking questions.

JOIN KHAN ACADEMY <https://www.khanacademy.org/join/EN2B6XVJ> .

Physics, particularly AP Physics, requires strong analytical and math skills. The summer assignment includes an introduction to physics concepts, graphical analysis of data, and reasoning skills practice. You should go ahead and print out a chart of metric prefixes to use in class next year.

Be sure to start early on the assignment and pace yourself. It will take a few hours total. DO NOT wait until the night before school starts to begin the assignments. If you do a little each week, next year will be SO much easier for you, since you will not have had time to forget everything you've learned. Here are a few things that you need to know about AP Physics in general:

1. It's way more than "plugging in numbers." AP Physics 1 focuses more on reasoning through concepts than on math. Almost every problem is new and different, including on the national exam. Students are required to write and describe physics. You'll be taught the principles of physics, and then will apply those principles in various situations.
2. Buy a review book (now...). If you didn't take general physics, then I'd also buy a "quick study" book that explains the basics.
3. There are a lot of good websites (physicsclassroom is VERY good, prettygoodphysics is another helpful one, AP Central, physicslabonline, etc.). Dan Fullerton (APlusPhysics), Flipping Physics, and Khan Academy have helpful tutorial video sites. Also, many universities have physics websites with practice quizzes. MIT Open Courseware has great lectures. There are also free online courses on EdX for AP Physics 1. Become familiar with them over the summer.
4. We will do online homework (WebAssign, or Quest out of UT Austin). I will give you instructions for registering on the first day of school.
5. You must provide your own calculator (simple, with trig functions, not programmable) for class, and will be expected to have it with you **every day**.

Summer Assignment

Complete the assignments in the 1 Dimensional Kinematics Section of Khan Academy (videos, homework, quizzes). Take notes on the videos to turn in. Complete the exercises and unit test. Your grade for the summer work will be based on your video notes, and grades for the exercises and unit test. In addition to having your notes to turn in, print out copies of your scores/work to turn in on the first day of class.

Have a great summer! Send me an email or post on Google Classroom if you have questions (shumphrey@shelbyed.org).

Mrs. Humphrey ☺