

AP Physics 1 Summer Homework 2016-2017

Note: You will not need the textbook over the summer, but you will need online access to get the documents and view the videos needed to complete this work. All of this work must be completed before school begins in the fall, and the “Questions” assignment is **due on the first day of school**. Late work will NOT be accepted.

1) SYLLABUS

- a) Go to Don Lugo’s home page, then “Classrooms”, then “Woods, Patrick”, then “AP Physics”.
- b) Open the “AP Physics 2016-2017 Syllabus” PDF document. You’ll receive a hard copy the first week of school, but read through it now. In fact, study it carefully...you’ll be quizzed on it the first week of school.
- c) Acquire the necessary materials for the class, especially the Journal. When you start taking notes in your Journal, you’ll want to begin on page 13. (Leave the first 12 pages blank, counting front and back.)

2) ASSIGNMENT: READING

- a) Open the “AP Physics Summer Homework Resource” PDF document on the AP Physics web page.
- b) Read through Ch. 1. Be thorough! Make sure you spend time going through each example. (In fact, reading the chapter 2-3 times is a good strategy, but you probably already knew that.)

3) ASSIGNMENT: VIDEOS

- a) Find Mr. Woods’ YouTube channel: “Woods Science Stuff”.
- b) Subscribe to the channel if you wish (not necessary, but maybe helpful).
- c) Find the playlist titled “Flipped Learning – Mr. Woods”.
 - i) Watch “How to Learn from a Flipping Educational Video”.
 - ii) Watch “Memorizing vs. Understanding in Physics”.
- d) Find the playlist titled “AP Physics”.
 - i) Watch “Ch. 1 Intro to Physics”, and take notes in your Journal. Remember to leave the first 12 pages blank.
 - ii) Watch “Problem Solving in Physics”, and take notes in your Journal.

4) ASSIGNMENT: QUESTIONS

- a) Go back to the PDF document containing Ch. 1 from the textbook (“AP Physics Summer Homework Resource”). Answer the following questions from the end of the chapter on separate sheets of paper. Follow the procedure described in the video on “Problem Solving in Physics”, and show all work neatly!
 - i) Conceptual Questions: #1-5
 - ii) Problems: #3-14,21,22,38,49-51