

## **AP Physics 1**

### **Summer Work Packet**

All students taking AP science courses are required to complete a review packet prior to the start of the course. Each course's packet is designed to help the student review material that was learned in pre-requisite science classes. The material is necessary for the student to successfully begin the AP course that he/she has chosen. A pretest will be administered the first day of class to assess the students' knowledge of the science concepts covered in the packet. The teacher will personally consult with the parent/student to discuss their future in the class if:

1. the student does not show adequate knowledge of the subject material covered on the pretest.
2. the student does not complete the summer work packet by the first day of class.
3. the student does not hand in the summer work packet on the first day of class.

I have read and understand the information written above.

Student signature: \_\_\_\_\_

Parent/guardian signature: \_\_\_\_\_

I attest that all of the work contained in this packet is my own.

Student signature: \_\_\_\_\_

WELCOME to AP Physics! The AP curriculum includes all of the topics and the labs that we need to complete before the 2025 AP test. All of you will find AP physics to be challenging. You should expect this class to be SIGNIFICANTLY more difficult than your first physics class. You need to make sure that you are staying up with all assignments, and coming in for help if you need extra help. We need to use our class time effectively so the goal of this summer packet is that you will have reviewed much of the material from your first physics class. We will not just review material from before. This assignment should be completed and ready to turn in by the FIRST day of class in August 2024, no excuses. We will possibly have take-home work over all academic year breaks (Thanksgiving, Winter, and Spring) this will be to cover and review additional material. AP Physics will be taught with the assumption that all students are taking the AP exam in the spring.

AP Physics First Day Test – will consist of the following areas, be cool = be prepared!

- 1) Scientific Notation
- 2) Dimensional Analysis
- 3) Geometry
- 4) Trigonometry
- 5) Algebraic Manipulation
- 6) Vectors

## AP Physics Summer Checklist

### \_\_\_\_ Part 1 – Why are you taking this course?

- A short concise paragraph answering the following questions (1) Why are you taking this course? And (2) What do you hope/expect to get out of the course?

### \_\_\_\_ Part 2 – Read and Summarize chapters 1, 2, 3 from the textbook.

- Use the outline at the bottom for your chapter summaries. Reading implies taking notes on any topics you are not familiar with or do not understand so that you will have them to study from AND/OR to ask me questions in the fall. GET USED TO READING! This is ABSOLUTELY necessary for AP Physics!

\_\_\_\_ Part 3 – Complete the practice problems provided. For the VectorSHW handout you are only required to complete the EVEN problems but if you want more practice feel free to complete all of them. For the Math Review handout complete all the problems provided.

### \_\_\_\_ Part 4 – Read through the various handouts regarding work ethic

### \_\_\_\_ Part 5 – LAST PART – Come to school in the fall with your

- **COMPLETED Summer packet**
- **Scientific calculator. It does not need to be a graphing calculator, though you are welcome to use a graphing calculator if you already have one.**
- **a notebook to be designated exclusively to AP Physics**
- **I HIGHLY RECOMMEND HAVING an AP exam review workbook. Any will do. Pick one that you feel comfortable with.**

Remember on the AP exam you must show all work including units or you will lose points. If you get the correct answer but do not show work you will not receive any points. (Accordingly, in this class and this packet credit will NOT be given for answer-only responses!) **SO. . . you need to show all work for every problem including**

- **equation you will be using (if applicable)**
- **knowns/unknowns (if applicable)**
- **plugged in equation and any algebraic work**

## Chapter Summaries

Chapter Name \_\_\_\_\_

Vocabulary Terms:

Major Equations:

Major Concepts, with brief explanation of each, you must at least have something for EACH section in the chapter, use the front and back of this paper as necessary, include all relevant information.

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