

## Advanced Placement Physics 2 Summer Assignment

Greetings to students signed up for this course in the fall of 2025. To be enrolled in this course, you must have completed either AP Physics C Mechanics or AP Physics 1 in a prior year. This immediately raises a concern that you may forget some of your conceptual development and problem-solving skills from your prior physics course. What can you do to minimize the decay of knowledge?

**Step 1:** Do not panic. I expect everyone to forget something. I also expect each of you will not forget the same thing from a prior course. Thus, I assume that everybody has forgotten everything just to be safe. One strength of Physics 2 is that you have an opportunity for a “do-over” in all prior course material.

**Step 2a:** Review all mechanics questions from Physics Bowl contests at <https://www.aapt.org/Programs/PhysicsBowl/printexams.cfm> for the years 2010 – 2014.

**Step 2b:** Some of you have already completed the AP Physics C Electromagnetism course. You can feel free to look at the electricity, circuits, and magnetism questions in Physics Bowl as well.

**Step 3:** Another source of mechanics review is the AAPT United States Physics Olympiad. You can view past United States Physics Olympiad exams ( $F = ma$  only) at <https://www.aapt.org/physicsteam/PT-exams.cfm> Review the 2014 exam for a comparison of the degree of difficulty between Physics Bowl and Physics Olympiad.

**Step 4:** Cut and paste 20 *Physics Bowl* questions from mechanics and/or electromagnetism that you should know but have forgotten how to work. Include the year of the exam and the correct letter choice for each item on the last page of your document. Be prepared to show me your choices on the first day of school in 2025. (For those who have only had mechanics, stick to 12 to 15 mechanics items.