

## AP Physics - Homework Portfolio

75 Chapter review problems from chapters 7, 8, 9, 10, 11, 12, 13 and 15.

60 review problems chosen by you, 15 chosen by me.

Students are encouraged to work together, but should only turn in their own work.

No two solutions may share the same side of a page.

Each page must be clearly labeled with the chapter #, problem # and student's name.

Solutions must be organized in the order in which they appear in the text.

Solutions should be written in typical pencil graphite on white paper.

Each solution must be in "perfect solution" format.

A perfect solution is clear, legible, organized and follows the following five steps:

1. A sketch, coordinate system and initial conditions describing the problem.
2. A fundamental concept equation written in symbolic variables.
3. Logical, step-by-step, symbolic mathematical reasoning used to solve for the variable in question.
4. The correct numerical answer with units.
5. A box around the answer with a brief description of its meaning.

All examples of excellent work should be included in the portfolio: Released FRQ's, quizzes, test Olympics, etc..

In the event that a student's grade is on the border between two grades the portfolio will be used as evidence for inflating the grade from the low to the high side of the border.

**Homework Portfolio is due on the day of the final exam.**

15 Chapter review problems chosen by me:

Chapter 7:

Chapter 8:

Chapter 9:

Chapter 10:

Chapter 11:

Chapter 12:

Chapter 13:

Chapter 15: