

AP Physics B, 2011-2012

Name: _____

Course Outline

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The Subject

AP Physics B is equivalent to a one-year, non-Calculus, college freshman course. It covers all the elements of elementary physics including mechanics, waves, sound, heat, electricity, magnetism, light, and modern physics.

Required Materials

- Text: *Principles of Physics* (2008). Kinetic Books.
- Calculator
- Notebook and method of keeping handouts organized
- Pencil

Homework

The homework grade will be based on online quizzes, which must be completed in Moodle by five minutes before the next class meeting. There will be approximately seven quizzes each unit. Your lowest online quiz grade will be dropped each unit.

Laboratory Exercises

There will be fewer experiments in this course than in your previous science courses; however, the write-ups are generally expected to be more sophisticated. Each write-up will be word-processed with graphs generated from a graphing program. We will complete approximately one experiment per unit. A 10% penalty will be applied for each school day a lab report is late.

Tests and Quizzes

Tests will occur at the end of a unit. They will be comprised of both multiple choice and free response questions. Most units will include quizzes as well. You can anticipate a test or a quiz approximately once a week. In cases of absences, students are expected to see their teacher before school on the morning of their return to arrange a time to make up quizzes or tests. If a student misses the day of the quiz or exam only, they are expected to take the make-up on the day of their return.

Grading

Your grade is based upon the total number of points received throughout the year. Generally, tests are worth 100 points; quizzes are worth up to 50 points; and labs are worth up to 100 points, depending on the length. Homework will be worth 5 points each unit.

Suggested Supplement

In previous years, we have required students to purchase *AP Advantage, Physics B* (Mooney, Peoples Publishing Group). If you are looking for additional problems or explanations, you should start here. If you would like a hardcopy textbook to supplement *Principles of Physics*, we recommend *Physics* (Cutnell and Johnson). All of the teachers for this course have copies of these books available at their desks.

Moodle (hw.mrooms.org)

We will utilize Moodle extensively in this course. Homework quizzes, extra problems, important handouts, and web simulations can all be found here. The enrollment key for this course is: