

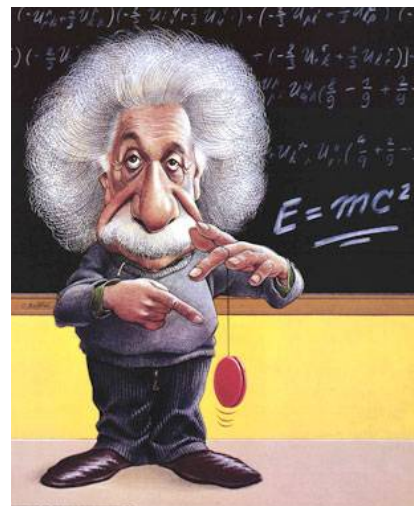
College Prep. Physics

Course Expectation Sheet 2009-2010

Teacher: Mr. Gorman
Phone: 508-234-6221 x2325

Room: C325
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Course objectives and goals: Physics is PHUN! It describes the world around us and is the foundation of all the other sciences because it describes fundamental characteristics of matter and energy along with their interaction. The following major concepts will be covered in this course: Motion and forces, conservation of Energy and Momentum, heat & heat transfer, waves, electromagnetism, and electromagnetic radiation. A strong emphasis will be placed on science as practice, developing critical thinking/ problem solving skills, and utilizing some math skills. In physics, knowledge must be constructed by you, the learner. By organizing your observations of nature, you will build the central models of physics.



Course text: Physics, Holt, Rinehart and Winston

Grading Scheme:

	Grade Weight
Tests/ Portfolio	30%
Lab Reports	30%
Quizzes	20%
Homework	10%
Class Work	10%

Course Requirements:

Assignments & Assessment

- Each student will keep a portfolio. Properly called it is a knowledge model which is a collection of concept maps that display **your** understanding of physics. The portfolio will be kept online and managed by *CmapTools*. This knowledge modeling toolkit can be downloaded from <http://cmap.ihmc.us/download/>. It will be graded using the knowledge model rubric at the end of the term.
- Homework is due at the **beginning** of the class period; thoroughly attempted assignments will receive a grade of 5/5. Uncompleted work will receive a maximum of 3/5 and no homework will receive a 0/5.
- Class work (i.e., warm-up, tasks, in-class problems, etc.) is to be kept and will be assessed at the end of each unit.
- Group work is an integral part of this course and you will fill out an assessment for yourself and your group members. This will be kept by Mr. Gorman and will be part of your class work grade.

Required Supplies

- Notebook, three-ring binder, scientific calculator, and pen/pencil.

Teacher Expectations

- **R** (Responsibility): Each student should come to class prepared with their notebook, a writing utensil, textbook, and any required assignments. All work should be completed and passed in on time. Lab equipment and materials should be handled in a proper manner as instructed and demonstrated by the teacher.
- **A** (Achievement): Preparation for class and completion of all assignments is necessary to achieve your best. The Northbridge High School Rubrics and modifications thereof will be used as a fundamental aspect of assessment.
- **M** (Mutual Respect): for the other members of the class and the teacher is a must. In this classroom, each person should strive to help others in understanding the concepts being studied.
- **S** (Service): Please, keep our classroom clean and well kept. All materials from labs and activities should be put away in their proper places.

Extra Help: Thursday afternoon 2:00-2:30 or by appointment