



Advanced Placement Physics Syllabus

Mr. Wichart



Physics is considered the basis of all science. Without you realizing it, you are experiencing physics every day. Walking, driving, sitting, talking, all have physics involved. This year we will look at the different aspects of physics that allow us to do the simple tasks, as well as more complex activities.

I. Content

- a. In class, we will be investigating Physics through the New Jersey Center for Teaching and Learning's PSI program (Progressive Science Initiative). We will be using a combination of power point presentation, interactive questioning, group collaboration, demonstrations and labs to investigate the following topics:

- i. [Kinematics](#)
- ii. [Dynamics](#)
- iii. [Uniform Circular Motion](#)
- iv. [Universal Gravitation](#)
- v. [Energy](#)
- vi. [Momentum](#)
- vii. [Electric Force & Field](#)
- viii. [Electric Potential](#)
- ix. [Electric Current & DC Circuits](#)
- x. [Magnetism](#)
- xi. [Electromagnetic Induction](#)
- xii. [Simple Harmonic Motion](#)
- xiii. [Waves](#)
- xiv. [Sound Waves](#)
- xv. [Electromagnetic Waves](#)
- xvi. [Quantum Physics](#)
- xvii. [Nuclear Physics](#)
- xviii. [Fluids](#)
- xix. [Geometric Optics](#)
- xx. [Thermodynamics Special Topics \(After AP\)](#)

II. Materials

- a. 3-Ring Binder
- b. Scientific Calculator
- c. Pen/Pencil

III. Labs

- a. Weekly labs will be used to reinforce Physics concepts. Some labs will be done prior to covering the concept to introduce the concepts to the class, while other labs will be during or after to reinforce the concept.
- b. Some labs may require a lab write up. Prior to assigning a formal lab report, information will be given on expectations for the lab report.
- c. Some labs will have a follow up quiz. These quizzes may or may not be unannounced. So, make sure to be an active participant for your group's lab.

Approved Physics Ap Syllabus

Elizabeth Ann Allan



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Houston Private and Select Public Schools Shelby Joe, Stephen Hayes, 2013-08-09 Now in its third edition General Academic s comprehensive guide to Houston private and select public schools contains more than 300 pages of advice analysis school profiles and more Our publication should provide the basic building blocks for parents to jump start their journey in researching applying to and selecting a school for their child This third edition features profiles on 41 private and 23 select public schools in and around Houston s 610 Loop and Beltway 8 highways General Academic is an academic consulting and supplementary education company based in Houston s Rice Village it was founded in 2003 *Directory of Distance Learning Opportunities* Modoc Press, Inc., 2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation

Case Studies of Curriculum Implementation in Science Classrooms Elizabeth Ann Allan, 1997 Resources in Education ,1986 **A Guide to Degrees in Arts, Science, Literature, Law, Music, and Divinity** Edwin Wooton, 1883 The Encyclopaedia Britannica ,1910 British Medical Journal ,1890 The Encyclopedia Britannica ,1910 *The Encyclopaedia Britannica* Hugh Chrisholm, 1910 *Calendar* University of St. Andrews, 1891 Research in Education ,1972 Newsweek ,2006 UC Santa Cruz University of California, Santa Cruz, 2006 **The Calendar of the University of Wales for the Academic Year** University of Wales, 1902 **American Education** ,1898 **New York Education** ,1899 **Index to Theses Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards** ,1982 Engineering Education ,1920 **Handbook on Contemporary Education** Steven E. Goodman, 1976 *The Encyclopaedia Britannica: Edw to Fra* ,1910

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