

Advanced Placement Physics 2

Text:	Cutnell & Johnson <i>Physics</i> , 7 th edition <i>College Physics</i> , Knight, Jones & Field, 1 st edition
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Supplementary Materials	From various sources, including College Board
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Course Description	<p>AP Physics 2 is an algebra-based, college level, introductory physics course which follows the AP Physics 2 Course Description and objectives covering fluid mechanics, thermodynamics, electricity, magnetism, modern & nuclear physics and waves/optics. Problem solving, reading, understanding and interpreting physical information as well as using basic mathematical reasoning is a vital component of this course. The lab component of this course is designed to give student experience in performing experiments, analyzing and graphing data, interpreting and presenting results, and evaluating error and uncertainty.</p> <p>Students are expected to take the AP examination in May. Should a student not sit the AP exam, they will be required to take a comprehensive course final exam during final exam week. Prerequisite: Recommendation of previous science teachers</p>
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Methods of Evaluation	Students can be evaluated through tests, laboratory reports and quizzes, concept quizzes, class work, homework, projects, semester exams and/or any other form of evaluation instrument the instructor finds applicable to the course.
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Pace of Instruction	<p>This course meets for 55 minutes a day, 5 days a week for the number of days seniors are present. A laboratory exercise is done approximately once every two weeks and takes from 1 to 3 class periods. The pacing of the course generally follows the percentages for coverage listed in the College Board AP Physics 2 Course Description. The content is covered in time to leave the two weeks before the AP Exam for review.</p> <ul style="list-style-type: none"> Unit 1 Kinematic and Force Fundamentals Unit 2 Electrostatics Unit 3 Electric Potential and Energy Unit 4 Electric Circuits Unit 5 Magnetism Unit 6 Modern and Nuclear Physics Unit 7 Fluid Statics and Dynamics Unit 8 Thermodynamics and Energy Unit 9 Preparation for the AP Exam
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