

AP Physics 1

Teacher Expectations	
Recommended Preparation: C or better in Algebra 2 or concurrently taking	
Average HW Time: 7-8 Hours	
After-school Labs and Study Sessions: Non-Mandatory	
Activities: (Place X next to)	Important information that students need to know about this course:
Group Projects X	This is a college level, algebra-based course. It is based upon scientific inquiry, conceptual understanding, and critical thinking. Students should have the motivation and ability to be committed. Students should be willing to spend time to improve out of a personal desire for success rather than simply for points and a grade.
Individual Projects X	
Lab Reports X	
Textbook Reading	
Textbook Notes X	
Research	
Primary and Secondary Source Analysis	
Use of Technology X	
Google Classroom	
Essays	
Short Answers X	

Student Expectations and Learning Outcomes
<ul style="list-style-type: none"> • Ability and desire to think critically and analyze complex problems and concepts. • Ability to explain, reason, or justify answers with emphasis on deeper, conceptual understanding • Ability to explain, reason, or justify answers by using mathematics appropriately to solve problems, including symbolically. • Ability to effectively use knowledge to conduct laboratory, inquiry-based investigations • Ability to effectively connect and relate knowledge across various scales, concepts, and representations in and across domains. • Ability to cope with exams that require conceptual and mathematical understanding. • Ability to individually complete homework assignments, labs, and projects in a timely manner. • Become more sophisticated thinkers and scientists. • Become a better student.

About AP Physics 1

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. The course is based on six Big Ideas, which encompass core scientific principles, theories, and processes that cut across traditional boundaries and provide a broad way of thinking about the physical world. Additionally, there is instructional time devoted to hands-on laboratory work with an emphasis on inquiry-based investigations. Investigations will require students to ask questions, make observations and predictions, design experiments, analyze data, and construct arguments in a collaborative setting, where they direct and monitor their progress.

Format of the AP Physics 1 Test

Section	Question Type	Number of Questions	Timing	% of Exam Score
1	Multiple Choice	50 Questions	90 Minutes	50%
2	Free Response	5 Questions	90 Minutes	50%
		1-Experimental Design 1-Quantitative/Qualitative Translation 3-Short Answer (one requiring a paragraph-length argument)		