

AP Physics 2 Syllabus

RCAS Policies/Procedures

Students will be required to follow all RCAS policies and procedures. To view the RCAS High School Student Handbook, click [handbook](#).

Course Description

If you've had a physics class before, it introduced you to many of the laws of nature; AP Physics 2 will take you much deeper. We'll derive a huge piece of chemistry (in a day!). You'll learn to analyze sophisticated optics. You'll work intensely with electric fields, magnetic fields, and develop an understanding of their coupled nature. You'll use fluid dynamics to understand the forces behind flight, tornadoes, and the blood in your veins, analyze complex circuits, delve into nuclear physics and MUCH more. The problems you solve will be more interdisciplinary and cumulative in nature, and we'll deal with uncertainty in many of our calculations, as all real-world calculations must.

Grading

Points shall be awarded for assignments including tests, labs, projects, and other classwork. Points are awarded and collected cumulatively through the year.

Textbook

Etkina. *College Physics*. USA, Pearson, 2014.

Reading

N/A

Optional Reading

N/A

Instructional Resources

- AP Classroom (College Board)
- Khan Academy

Essential Questions

- College Board has produced an extensive 'Course and Exam Description' pdf document with all of the essential questions (referred to in the text as **Enduring Understandings**). The document is available here: <https://apcentral.collegeboard.org/pdf/ap-physics-2-course-and-exam-description.pdf?course=ap-physics-2-algebra-based>
- If this link is no longer valid, the Course and Exam Description document is easily found by using a search engine with the query: 'AP Physics 2 Course and Exam Description'

Essential Learning Intentions

- College Board has produced an extensive 'Course and Exam Description' pdf document with all of the learning intentions (referred to in the text as **Learning Objectives**). The document is available here: <https://apcentral.collegeboard.org/pdf/ap-physics-2-course-and-exam-description.pdf?course=ap-physics-2-algebra-based>
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