



2024-2025

Rapid City
Stevens High School

AP Physics I

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:

AP Physics 1 is equivalent to a first-semester algebra-based college physics course, and it has a significant laboratory/project component. The course emphasizes Newtonian mechanics (including projectile motion, torque and angular momentum) as well as energy, power, mechanical waves (like earthquakes), and sound. It will introduce electric circuits.

Textbook:

Open STAX - University Physics

Required Resources:

none

“Limited Choice” Resources: (students will be asked to choose at least one title from this list)

none

Student Choice:

Will student be asked to choose additional reading material from the classroom or school library?

No

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). This document is updated quite often. The document is available here:

<https://apcentral.collegeboard.org/media/pdf/ap-physics-1-course-and-exam-description.pdf>

If this link is no longer valid, the Course and Exam Description document is easily found by using a search engine with the query: 'AP Physics 1 Course and Exam Description'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-1-course-and-examdescription.pdf?course=ap-physics-1-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If this link is no longer valid, the Course and Exam Description document is easily found by using a search engine with the query: 'AP Physics 1 Course and Exam Description'