



## AP Physics 1 Critical Review

**Course:** Tuesday, April 23rd 2019 thru Saturday, May 4th 2019  
(Inquire regarding dates and times since they vary with session and instructor.)

**Framework:** All classes are delivered live online using web conferencing software. There are six sessions, each session lasting two hours. The first five sessions comprise a comprehensive review of all topics critical to earning a high score on the AP Physics 1 Exam. The last session is not topic specific, but is open to final questions on any course material. All sessions are recorded and made available the evening of the class. Students who are unable to attend live will be able to view the session at their leisure.

**Session #01 – Hour 1:** Introduction To Kinematics

**Session #01 – Hour 2:** Forces And Newton's Laws

**Session #02 – Hour 1:** Collisions – Impulse And Momentum

**Session #02 – Hour 2:** Work And Energy

**Session #03 – Hour 1:** Rotation

**Session #03 – Hour 2:** Gravitation

**Session #04 – Hour 1:** Coulomb's Law And Circuits

**Session #04 – Hour 2:** Waves And Simple Harmonic Motion

**Session #05 – Hour 1:** Complex Topics

**Session #05 – Hour 2:** Complex Topics Con't

**Session #06 – Hour 1:** AP Physics 1 General Review

**Session #06 – Hour 2:** AP Physics 1 General Review

**Prerequisite:** All participants are expected to be close to completing an AP Physics 1 course. This is strictly a review for the AP Physics 1 Exam. It is NOT appropriate to register for this review without the necessary background in AP Physics. AP Critical Review uses sophisticated web conferencing software to deliver all classes. Students are required to have good Internet connectivity.

**Objectives:** The objective of this review is to help all participants score well on the AP Physics 1 Exam. The review is laser focused on the test and nothing but the test.

**Required Textbook:** 5 Steps To A 5: AP Physics 1 Algebra-Based 2019  
Greg Jacobs  
McGraw-Hill Education  
ISBN: 978-1260123012 304 pages

**Review Forum:** Once registered, all participants will be given logon information for their section of the AP Physics 1 Critical Review forum. Enrollment per section is strictly limited to 12 students and each section has a dedicated instructor. The forum should be used as a discussion board where participants can interact with each other and the instructor on issues related to the AP Physics 1 Exam. Students can post problems and ask for clarification at any time. The instructor monitors the discussion board every day, answering questions and providing feedback.

**Procedure:** Prior to the first class, students are expected to complete Practice Exam #1 from the 5 Steps To A 5: AP Physics 1 Algebra-Based 2019 book. The exam should be taken under actual testing conditions. Students are required to grade their exam after testing and post their results in the forum. Students should also post any problems they had with the practice exam that were unresolved after reading the explanations that follow the exam in the 5 Steps book. The instructor will address issues directly in the forum or in the first live session.

Prior to every session, students are expected to complete the homework assigned for that session. This involves reading sections of the book and completing the associated multiple-choice and free response questions. Students are also expected to post problems they encountered with the homework that were unresolved after reading the corresponding explanations in the book. The instructor will address issues directly in the forum or in the live session.

**Session Agenda:** The agenda is set by the participants within the above framework. Sessions are not lectures. There are plenty of online videos and resources available for AP Physics 1. Unfortunately, there are few resources students can turn to for feedback and assistance answering questions and clarifying topics. The classes are intended to act as a very focused group tutoring session. Practice alone is limited in value without appropriate feedback. Students need to understand where they went wrong, what misconceptions they have that need to be corrected and what they can do differently to achieve a better outcome.

Participants who are struggling can also request one-on-one private tutoring. Sessions of this nature can be arranged for students on a time available basis for an additional fee of \$99/hr.

**Note:** AP Critical Review is in no way affiliated nor endorsed by the College Board.