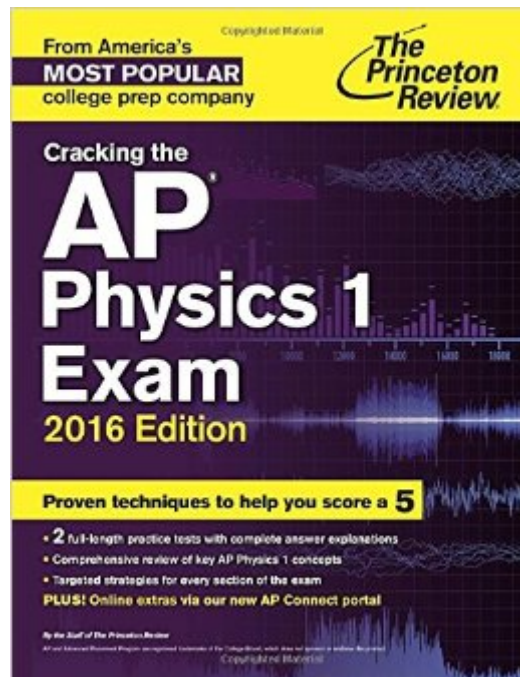


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# Cracking The AP Physics 1 Exam, 2016 Edition (College Test Preparation)



## Synopsis

EVERYTHING YOU NEED TO HELP SCORE A PERFECT 5. Equip yourself to ace the AP Physics 1 Exam with The Princeton Review's comprehensive study guideâ€”including thorough content reviews, targeted strategies for every question type, and 2 full-length practice tests with complete answer explanations. We don't have to tell you how tough the AP Physics 1: Algebra-Based course is to masterâ€”or how vital a stellar exam can be to making your college application competitive at the most selective schools. Written by the experts at The Princeton Review, *Cracking the AP Physics 1 Exam* arms you to take on this new course and test and achieve your highest possible score.

Techniques That Actually Work.â€¢ Tried-and-true strategies to avoid traps and beat the test.â€¢ Tips for pacing yourself and guessing logically.â€¢ Essential tactics to help you work smarter, not harder.

Everything You Need to Know to Help Achieve a High Score.â€¢ Comprehensive content reviews for all test topicsâ€”including kinematics, dynamics, Newton's laws, work, energy, rotational motion, electrostatics, DC circuits, mechanical waves, sound, and more.â€¢ Up-to-date information on the 2016 AP Physics 1 Exam.â€¢ Engaging activities to help you critically assess your progress.

Practice Your Way to Excellence.â€¢ 2 full-length practice tests with detailed answer explanations.â€¢ Practice drills at the end of each content review chapter.â€¢ Step-by-step walk-throughs of sample questions.

## Book Information

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## Customer Reviews

Princeton Review simply took their *Cracking the AP Physics B Exam* and removed some of the

content. No effort was made to even adapt it to the new exam. I should know - I've used the previous book with three of my children. This "new" book is mostly word-for-word IDENTICAL to its predecessors. Since The Princeton Review is obviously aware that the AP Physics 1 Exam is radically different than the B exam this is actually fraudulent. I will ask for a refund. Please give this a 1 star review to protect buyers and send a message to PR that they cannot get away with this. If you want a review book that is built around the new exam try 5 Steps to a 5 AP Physics 1 Algebra-based, 2015.

There are two topics in this PR Review book that are clearly stated in the large PDF Course and Exam Description from the College Board for AP Physics 1 & 2 as not being in AP Physics 1. The two topics are mathematical modeling of waves using sines and cosines, and studying the Doppler Effect quantitatively. In the PR Review book, the math with trig. of waves is on pages 186-187, and in the College Board's Course and Exam Description it is on page 97 under Essential Knowledge 6.B.3. Also, in the second sentence of the Boundary Statement on page 94 of the Course and Exam Description, it is stated that the mathematics with sines or cosines will be in AP Physics 2. The mathematics of the Doppler Effect is on pages 203-205 in the PR Review book, and it is on p.98 of the College Board's Course and Exam Description that it is clearly stated that this is not on AP Physics 1 under Essential Knowledge 6.B.5. Also, I found the equation for the speed of a transverse wave on a string in this PR Review book on pages 184-185, and this is not included in the Course and Exam Description. The  $v = \lambda(f)$  equation is described in the Course and Exam Description on page 97 under Enduring Understanding 6.B.4, and there is not the equation for the speed of a transverse wave on a string near it. But, knowing that the speed of a wave on a rope increases when the tension of it increases seems to be something that students should know for this course and exam. I wonder if others feel a lot better about the other 2 review books I found on the AP Physics 1 Exam: '5 Steps to a 5' by Greg Jacobs, and 'AP Physics 1 Essentials' by Dan Fullerton. Also, there is a multiple choice problem in this review book that is basically the same as one in the Course and Exam Description, but gives a different answer. In this review book, it is #15 in Practice Test 2 with answer A, and in the Course and Exam Description it is #9 on p. 161 with answer B. Even the explanation after the Practice Test confirms that they meant to choose choice (A) as the answer. It is a problem about an elliptical orbit, which conservation law can be used to find a moon's distance at the perihelion, and why. While both say it is the conservation of angular momentum that should be used, this review book says that is because of an application of Newton's 3rd Law, whereas the Course and Exam Description says that it is because of the direction of the

gravitational force. This results in their being no external torque and thus angular momentum is conserved, and can be used to solve for the distance.

Very little effort seems to have gone into making this book. As an AP Physics 1 teacher, I bought a copy to help generate questions for my own class, particularly in new sections like rotational dynamics. The rotation section does not say a word about rotational kinetic energy, nor does it talk about angular momentum, both of which are on the new exam. There are also no questions in the section review related to the new material. I mistakenly recommended this book to my students based on the AP Physics B book, but will be retracting that recommendation tomorrow in class. Very frustrating!

This book isn't the best for AP Physics 1, but is certainly is an improvement to the ridiculous 2015 edition last year. Use this with Dan Fullerton's AP Physics 1 Essentials and the 5 steps book and you should be okay.

I have gotten almost all the available ap physics 1 tests (ap physics 1 essentials, barron, 5 steps to a 5) and I have to say this one does the job the best (for me). I have a physics teacher that doesn't do much explaining and this book makes up for it. It has a perfect balance of how easy (ap physics essentials) and how hard (barron) the ap physics 1 test should be (from what I have heard from last year's test takers. While I do enjoy the simplicity of 5 steps to 5, it really doesn't cover enough materials in detail to make up for my teacher, but if you have a great teacher and just need to review everything quickly at the end of the year, I think 5 steps to a 5 is your best bet. I will update my review after I actually take the test and after I review my scores.

This book is really a 'terrible thing' to use to study. It is just a rehash of the old Physics B review book. With The MC question choices reduced to four instead of five! This book is BIG disappointment!

This is a terrible misrepresentation of the new exam. The book describes the new exam format in the introduction but the end-of-chapter questions and sample exams are entirely off base. The new exam requires significant qualitative reasoning in all questions while every example problem in this book is quantitative. There is one good question in the book, (Sample test 1, question 1) but this question was pulled directly from released College Board materials. What's more, this book places

significant focus on aspects that are not covered in the AP Physics 1 curriculum (most notably: Electric Fields). 5 Steps to a 5 is the most useful resource I've seen for understanding what the new exam will look like. While I'm sure that some value can be found from the concept reviews in this book and while I'm sure students will benefit from practicing even quantitative problems, this book is in no way a good resource for the AP Physics 1 Exam

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