

AP® Physics B Crash Course Book + Online (Advanced Placement (AP) Crash Course)

By Rebecca Howell, Advanced Placement, Physics Study Guides

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REA's *Crash Course* for the AP® Physics B Exam - Gets You a Higher Advanced Placement® Score in Less Time

Crash Course is perfect for the time-crunched student, the last-minute studier, or anyone who wants a refresher on the subject.

Are you crunched for time? Have you started studying for your Advanced Placement® Physics B exam yet? How will you memorize everything you need to know before the test? Do you wish there was a fast and easy way to study for the exam AND boost your score?

If this sounds like you, don't panic. REA's *Crash Course* for AP® Physics B is just what you need. Our *Crash Course* gives you:

Targeted, Focused Review - Study Only What You Need to Know
The *Crash Course* is based on an in-depth analysis of the AP® Physics B course description outline and actual AP® test questions. It covers only the information tested on the exam, so you can make the most of your valuable study time. Our easy-to-read format gives you a crash course in: mechanics, kinetic theory, thermodynamics, electricity, magnetism, waves, optics, and modern physics.

Expert Test-taking Strategies
Our experienced AP® Physics B teacher shares detailed question-level strategies and explains the best way to answer the multiple-choice and free-response questions you'll encounter on test day. By following our expert tips and advice, you can boost your overall point score!

Take REA's FREE Practice Exam
After studying the material in the *Crash Course*, go to the online REA Study Center and test what you've learned. Our free practice exam features timed testing, detailed explanations of answers, and automatic scoring analysis. The exam is balanced to include every topic and type of question found on the actual AP® exam, so you know you're studying the smart way.

Whether you're cramming for the test at the last minute, looking for extra review, or want to study on your own in preparation for the exams - this is the study guide every AP® Physics B student must have.

When it's crucial crunch time and your Advanced Placement® exam is just around the corner, you need REA's *Crash Course* for AP® Physics B!

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Editorial Review

From the Back Cover

***CRASH COURSE* FOR THE AP* PHYSICS B EXAM – GET A HIGHER SCORE IN LESS TIME**
Late getting started? Facing too many AP* tests? Use this course to learn the most in the least time!
Study Only What You Need to Know
REA's *Crash Course* for the AP* Physics B exam is based on an in-depth analysis of the Advanced Placement* Physics B exam and actual AP* Physics B test questions. It covers only the information tested on the exam, so you can make the most of your study time.
Expert Test-Taking Strategies
Developed by an Advanced Placement* teacher with many years of classroom experience, this Physics B *Crash Course* presents detailed, question-level strategies for answering both the multiple-choice and free-response questions. By following the AP* author's advice, you can boost your score in every section of the AP* Physics B test.
Essential Physics B Equations
Knowing how to use the most common Physics B equations can make a real difference in your score. That's why we include more than 70 equations you should know before taking the AP* Physics B exam.
Free Practice Exam
Our full-length online Physics B practice exam includes every topic and type of question found on the actual exam. It offers timed testing, automatic scoring, and detailed explanations of answers. It even provides helpful diagnostics to pinpoint where you're strongest and where you need to focus.

About the Author
Rebecca Howell has eleven years of experience as an AP® Physics B and AP® Physics C teacher. She has taught all levels of high school physics, astronomy, and meteorology. She is currently teaching AP® Physics B & C at Alpharetta High School, Alpharetta, Georgia.

Ms. Howell received her B.S.Ed. in Secondary Science Education—specializing in Physics—from the University of Georgia in Athens, Georgia and earned her M.Ed. in Secondary Science Education at Georgia State University, Atlanta, Georgia.

In addition to her work in the classroom, she has served as an AP® Physics B question author, reviewer, Reader and Table Leader for ETS. Ms. Howell was an invited presenter at the Annual Georgia Department of Education AP® Workshop. She is also a member of the American Association of Physics Teachers.

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ABOUT THIS BOOK
This ***AP Physics B Crash Course*** is the first book of its kind for the last-minute studier or any AP student who wants a quick refresher on the course. REA's ***Crash Course*** is based on a careful analysis of the AP Physics B Course Description outline and actual AP test questions.
Written by an AP Physics B expert, our easy-to-read format gives students a crash course in the basic knowledge of physics, including theories and techniques, concepts, and general principles. The targeted review chapters prepare students for the exam by focusing only on the topics tested on the AP Physics B exam.

Part One, the introduction, discusses the keys for success and shows you strategies to help you build your overall point score. Part Two is an overview of mechanics and covers Newton's laws of motion and force, circular motion, momentum, and work and energy. In Part Three, the author highlights information on fluid mechanics, kinetic theory, and thermodynamics. Part Four is devoted to electricity and magnetism, and Part Five covers waves and optics. Part Six closes out the content review with a chapter devoted to modern physics.
Part Seven gives you general AP test-taking strategies and teaches you how to master the multiple-choice and free-response sections of the exam. A chapter on essential equations is also included for added study.

No matter how or when you prepare for the AP Physics B exam, REA's ***Crash Course*** will show you how to study efficiently and strategically, so you'll be ready for the exam.
To check your test readiness for the AP Physics B exam, either before or after studying this ***Crash Course***, take our **FREE online practice exam**. To access your free practice exam, visit *www.rea.com/crashcourse* and follow the on-screen instructions. This true-to-format test features automatic scoring and detailed explanations of all answers, and it will help you identify your strengths and weaknesses so you'll be ready on exam day!

Good luck on your AP Physics B exam!

Keys for Success on the AP Physics B Exam
Taking any Advanced Placement exam can be a daunting experience. The AP Physics B exam is no exception. After all, the exam is based on a college-level introductory physics course, and you're still in high school! Don't panic . . . relax. This *Crash Course* is going to guide you to success on the exam.
The AP Physics B course and exam require you to develop your critical-thinking skills, along with developing an in-depth understanding of the discipline of physics, including theories and techniques, concepts, and general principles of the subject.
Our *Crash Course* was designed to help you be more pragmatic in your approach to studying for the AP Physics B exam—in a streamlined outline format.
Understand the Structure of the Exam
The AP Physics B exam consists of both multiple-choice questions as well as free-response questions. Section I, the multiple-choice section of the exam, is worth 50 percent of your score. Section II, the free-response section, represents the remaining 50 percent of your score. The multiple-choice answers are scored electronically, and you are not penalized for incorrect answers. Therefore, it makes sense to guess if you don't know an answer.
Using Calculators on the AP Physics B Exam
Calculators cannot be used on the multiple-choice section of the AP Physics B exam. However, you may use a graphing or programmable calculator during the free-response section. Visit the College Board website (*www.collegeboard.org*) for more information on what calculators are allowed.
Understand the AP Physics B Topical Outline
Many students believe that members of the AP Physics B exam development committee have the freedom to write any question they wish. This is not true. AP Physics B test writers use a detailed topical outline that tells them what they can ask and what they cannot ask.
Every question on the AP Physics B exam can be linked to a specific point in the topical outline. The approximate percentages of questions devoted to each major category that you'll find on the exam are also noted. Familiarize yourself with this outline before studying for the exam and you'll know where to focus your study time.

The major topics found on the Physics B exam are:
I. Newtonian Mechanics (35%)
A. Kinematics

B. Newton’s Laws of Motion
C. Work, Energy, Power
D. Systems of Particles, Linear Momentum
E. Circular Motion and Rotation
F. Oscillations and Gravitation
II. Fluid Mechanics and Thermal Physics (15%)
A. Fluid Mechanics
B. Temperature and Heat
C. Kinetic Theory and Thermodynamics
III. Electricity and Magnetism (25%)
A. Electrostatics
B. Conductors, Capacitors, Dielectrics
C. Electric Circuits
D. Magnetic Fields
E. Electromagnetism
IV. Waves and Optics (15%)
A. Wave Motion
B. Physical Optics
C. Geometric Optics
V. Atomic and Nuclear Physics (10%)
A. Atomic Physics and Quantum Effects
B. Nuclear Physics

Understand How the Exam Is Scored

The College Board reports your combined multiple-choice score and your total free-response score or a five-point scale:

5 Extremely well-qualified
4 Well-qualified
3 Qualified
2 Possibly qualified
1 No recommendation

Many colleges give course credit with a score of 3 or better; other colleges take nothing below a 4, while still others give college credit only for the top score, a 5. Find out the AP policies of the colleges to which you are seeking admission. Also, be aware that colleges and universities can change their AP acceptance policies whenever they want.

Users Review

From reader reviews:

Mary West:

In this 21st hundred years, people become competitive in most way. By being competitive today, people have do something to make these survives, being in the middle of often the crowded place and notice through surrounding. One thing that sometimes many people have underestimated the item for a while is reading. That's why, by reading a guide your ability to survive raise then having chance to stay than other is high. For you who want to start reading the book, we give you this particular AP® Physics B Crash Course Book + Online (Advanced Placement (AP) Crash Course) book as starter and daily reading publication. Why, because this book is more than just a book.

Roger Cowen:

The knowledge that you get from AP® Physics B Crash Course Book + Online (Advanced Placement (AP) Crash Course) is a more deep you rooting the information that hide inside the words the more you get thinking about reading it. It does not mean that this book is hard to understand but AP® Physics B Crash Course Book + Online (Advanced Placement (AP) Crash Course) giving you buzz feeling of reading. The copy writer conveys their point in selected way that can be understood by means of anyone who read this because the author of this e-book is well-known enough. This particular book also makes your own vocabulary increase well. So it is easy to understand then can go with you, both in printed or e-book style are available. We highly recommend you for having this particular AP® Physics B Crash Course Book + Online (Advanced Placement (AP) Crash Course) instantly.

Marina Tijerina:

The book untitled AP® Physics B Crash Course Book + Online (Advanced Placement (AP) Crash Course) contain a lot of information on that. The writer explains her idea with easy way. The language is very clear to see all the people, so do definitely not worry, you can easy to read this. The book was compiled by famous author. The author brings you in the new era of literary works. You can read this book because you can please read on your smart phone, or program, so you can read the book inside anywhere and anytime. If you want to buy the e-book, you can start their official web-site and also order it. Have a nice examine.

Kaye Hensley:

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