

# Steps To AP Physics 2019 - Your Path to Success



**2019 AP<sup>®</sup> PHYSICS 1 FREE-RESPONSE QUESTIONS**

2. (12 points, suggested time 23 minutes)  
 This problem explores how the relative masses of two blocks affect the acceleration of the blocks. Block A, of mass  $m_A$ , rests on a horizontal tabletop. There is negligible friction between block A and the tabletop. Block B, of mass  $m_B$ , hangs from a light string that runs over a pulley and attaches to block A, as shown above. The pulley has negligible mass and spins with negligible friction about its axle. The blocks are released from rest.

(a)  
 i. Suppose the mass of block A is much greater than the mass of block B. Estimate the magnitude of the acceleration of the blocks after release.  
 $a \approx 0$   
 Briefly explain your reasoning without deriving or using equations.  
*Since the mass of block A is much greater than the mass of block B, the system will remain at rest. Small compared to  $m_A$ .*

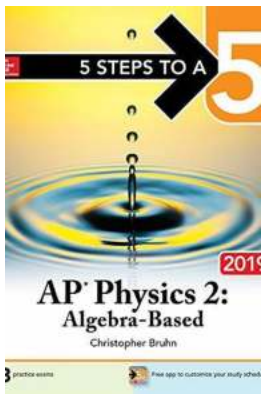
ii. Now suppose the mass of block A is much less than the mass of block B. Estimate the magnitude of the acceleration of the blocks after release.  
 $a \approx g$   
 Briefly explain your reasoning without deriving or using equations.  
*Since the mass of block A is much less than the mass of block B, the system will accelerate as if block A were massless.*

Free-body diagrams and equations:  
 $F_{net,A} = T = m_A a$   
 $F_{net,B} = m_B g - T = m_B a$   
 $m_B g = (m_A + m_B) a$   
 $a \approx g$

Are you ready to take your physics knowledge to the next level? Are you looking to challenge yourself and earn college credits? Then AP Physics might be the right choice for you! This article will guide you through the steps necessary to excel in AP Physics 2019 and achieve success.

## Step 1: Understand the AP Physics Curriculum

The first step towards success in AP Physics is to familiarize yourself with the curriculum. AP Physics covers a wide range of topics, including mechanics, electricity, magnetism, and waves. Knowing what concepts and skills will be tested will help you plan your study schedule and focus on the areas that require more attention.



## 5 Steps to a 5: AP Physics C 2019

by Greg Jacobs (1st Edition, Kindle Edition)

★★★★☆ 4.2 out of 5

Language : English

File size : 46203 KB

Text-to-Speech : Enabled

Screen Reader : Supported

Enhanced typesetting : Enabled

Print length : 352 pages



### Step 2: Develop a Study Plan

Creating a study plan is crucial to staying organized and maximizing your study time. Allocate specific time slots for each topic, allowing more time for difficult concepts. Be sure to include regular review sessions to reinforce your learning. Consistency and discipline are key to success in AP Physics.

### Step 3: Gather Quality Study Resources

Having access to quality study resources is essential for effective preparation. Invest in a good AP Physics review book or enroll in an online course specifically designed for AP Physics. These resources will provide comprehensive explanations, practice questions, and sample exams to enhance your understanding and test your knowledge.

### Step 4: Seek Additional Help

If you find certain concepts challenging, don't hesitate to seek additional help. Reach out to your teacher or a tutor for clarification. You can also join study groups or forums where you can discuss difficult topics with fellow students.

Exploring different perspectives and approaches can help you gain a deeper understanding of the subject.

### **Step 5: Practice, Practice, Practice**

Consistent practice is crucial for mastering AP Physics. Solve as many practice problems and past AP exams as possible. This will not only familiarize you with the exam format but also improve your problem-solving skills. Set aside dedicated study sessions for solving practice questions to ensure you are well-prepared.

### **Step 6: Take Advantage of Online Resources**

The internet offers a wealth of resources that can enhance your understanding of AP Physics. Watch educational videos, participate in interactive simulations, and explore online forums where you can connect with experts and fellow students. Utilize these resources to reinforce your learning and gain additional insights.

### **Step 7: Review, Review, Review**

As the AP Physics exam approaches, allocate time for frequent reviews. Focus on the topics you find challenging and revisit key concepts. Use flashcards, summaries, and mnemonic techniques to help you retain information. Regular review sessions will ensure that you are well-prepared for the exam.

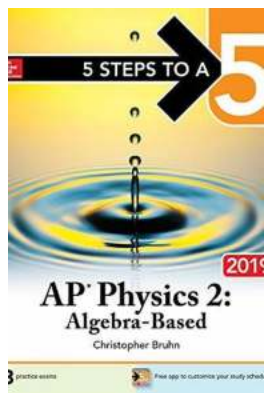
### **Step 8: Test Day Strategies**

On the day of the AP Physics exam, make sure you arrive early and bring all the necessary materials. Read the instructions carefully and allocate your time wisely. Start with the questions you find easier to build confidence. Don't get stuck on a difficult question; if you're unsure, skip it and come back later. Manage your time effectively to complete the exam within the given time frame.

## Step 9: Stay Confident and Believe in Yourself

Remember, success in AP Physics is not just about knowledge; it's also about confidence and belief in yourself. Stay positive, remain focused, and trust in your abilities. You have worked hard to get to this point, and with the right mindset, you can excel in AP Physics 2019.

By following these steps, you will be setting yourself up for success in AP Physics 2019. Understand the curriculum, create an effective study plan, gather quality resources, seek help when needed, practice consistently, utilize online resources, review frequently, and employ test day strategies. Most importantly, believe in yourself and stay confident throughout the journey. Good luck on your path to AP Physics success!



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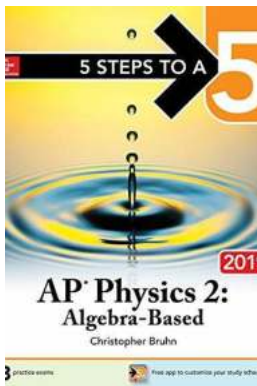
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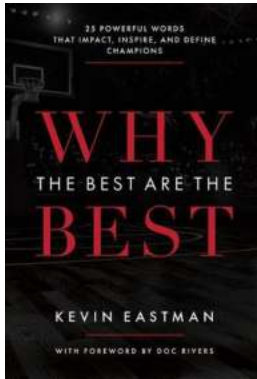
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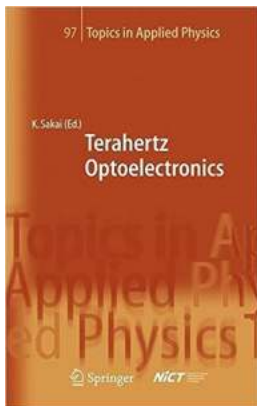
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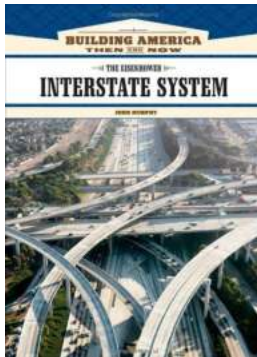
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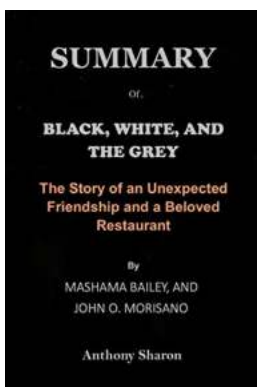
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