

## AP Physics C: Mechanics

### It's All Physics

This course ordinarily forms the first part of the college sequence that serves as the foundation in physics for students majoring in the physical sciences or engineering. Methods of calculus are used whenever appropriate in formulating physical principles and in applying them to physical problems. The AP Physics course is designed to develop student understanding of the principles of physics. A major goal of AP Physics C is for students to develop the ability to apply these principles in the solution of problems.



Physics forms the  
basis of present and  
future technology

AP Physics C is a challenging course that takes independent learning to a whole new level. You must be motivated and willing to put forth your best effort and work hard to grasp the subject matter. It can be frustrating at times, but with the help of your instructor and classmates, this class can take your intellectual ability to a higher level.

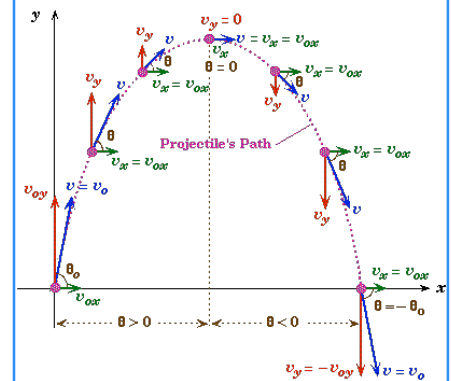


**Mr. Papaleo - Instructor**

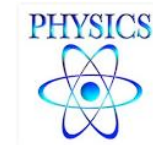
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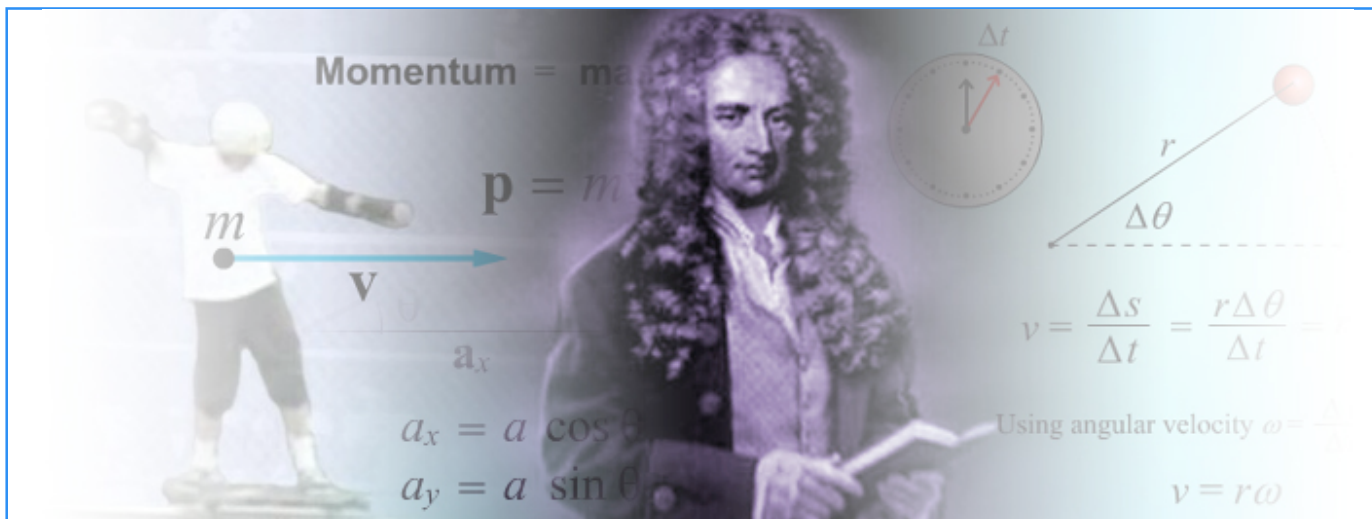
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Take the Challenge  
Take AP Physics



**Somerset Berkley  
Regional High School**



## Q&A

The exam focuses on topics on Newtonian mechanics. The portion of the exam covering each course topic area is:

- Kinematics (18%)
- Newton's Laws of Motion (20%)
- Work, energy, power (14%)
- Linear Momentum (12%)
- Rotation (18%)
- Oscillations and gravitation (18%)

The exam:

Section I: Multiple Choice

35 Questions – 45 minutes.

These questions test the breadth of our knowledge and understanding of the basic physics principles

Section II: Free Response

3 Questions – 45 minutes

These questions emphasize the application of the basic physics principles in greater depth.

# AP Physics – A World of Opportunity

## Career Areas

- Actuaries
- Aircraft Pilots
- Biomedical Engineers
- Civil Engineers
- Computer Engineers
- Environmental Scientists
- Forensic Scientists
- Occupational Health/Safety Specialists
- Surgeons
- Urban and Regional Planners
- More – <http://apstudent.collegeboard.org>

## College Majors

- Aerospace Engineering
- Architecture
- Biomedical Engineering
- Civil Engineering
- Computer Science
- Electrical Engineering
- Mechanical Engineering
- Nuclear Engineering
- Physics
- Robotics Technology
- More - <http://apstudent.collegeboard.org>