

WELCOME TO AP Physics 1



Class wish list

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Course Outline/Content

What is AP Physics 1?

AP Physics 1

Exam:

May 5th 2027

- Equivalent of college courses
- Check with the receiving college for course credit and hours

Units

- Unit 1 Kinematics
- Units 2 Force and Translational Dynamics
- Unit 3 Work, Energy and Power
- Unit 4 Linear Momentum
- Unit 5 Torque and Rotational Dynamics
- Unit 6 Energy and Momentum of Rotating Systems
- Unit 7 Oscillations
- Unit 8 Fluids

COURSE Expectations

Essential Skills

- Strong algebra, geometry and trigonometry skills
- Strong problem-solving skills: making connections between derived equations and phenomena discussed in class
- Self-guided practice outside of class

Daily life

- Discussion based lectures
- Practice problems
- Designing labs based on physics concepts

ROAD TO SUCCESS

- Attendance is critical
- Work the problems that are worked out in front of class
 - Take notes
- Resources – see CANVAS
 - AP Classroom
- Schedule for Help ASAP
 - Flex Friday Tutoring
 - SNHS student tutoring
- Stay focused
 - DO the work – practice and check your answers
 - PUT AWAY the cell phone.

Expectations for exhibiting physics knowledge in AP Physics

Computational analysis of physics variables

- This typically involves identifying variables and working with equations to determine a missing value

Visual representations of physics concepts

- Reading graphs. Diagrams and interpreting their meaning within physics concepts

Succinctly making approximations using physics concepts

- Making approximations for what will occur in a scenario even if you don't have variables to calculate it

Tips for preparing for assessments

Take notes on Practice problems that are completed in lecture, AP Classroom and beyond

- Each unit has types of problems; any problem we work on with the class is likely one of these problem types

Complete practice problems using notes, peers, and Dr. Berkemeier for assistance

Take some time to practice the problem without using assistance

- Get as far as you can, when stuck refer to notes to finish
- Restart the problem until you can work the whole problem without looking at notes or asking for help

Practice explaining the problem to a peer in a succinct manner

COURSE SUPPORT

- **CANVAS:**
 - Lecture, practice, labs and handouts are posted
 - Reviews and suggested additional support
- **AP CLASSROOM**
 - College board lecture videos
- **Textbook**
 - Practice problems and problem sets
- **KHAN Academy:**
 - Basic foundation review
 - Practice quizzes
- **FLEX FRIDAY TUTORING**
- **Class time provided for practice and review**

Contact information



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