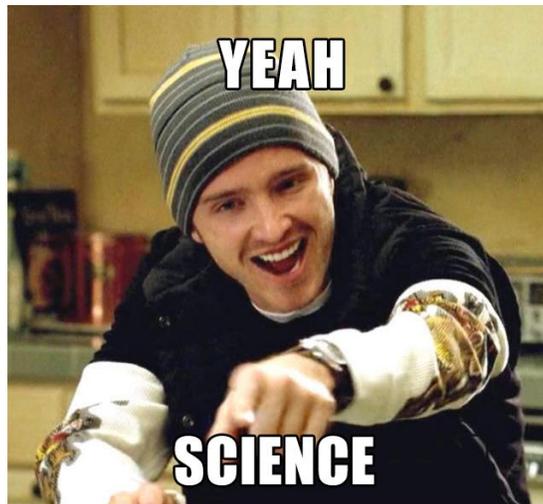


# Physics 2 AP Course Syllabus

Mr. Greenberg

Palos Verdes Peninsula High School



“I think it’s much more interesting to live not knowing than to have answers which might be wrong.” – Richard Feynman

## **Welcome to AP Physics 2**

Physics is a class that rewards you for being curious. Physics delves into questions about the world and the universe. How do airplanes stay in the sky? Why is the sky blue? Magnets: How do they work? AP Physics 2 covers thermodynamics, fluids, magnetism, waves, optics, electrostatics and circuits. If you have a great physics experience, you will see the world differently and will leave with even better questions.

AP Physics 2 is the equivalent of a 1st semester college physics course. It focuses heavily on physics phenomena and the ability to communicate those concepts.

## **Materials you will need for this class**

- Scientific calculator (Any calculator without a QWERTY keyboard is permitted)
- Metric ruler (or meter stick) & protractor
- Graph paper (you can print your own online)
- Notebook or 3-ring binder for notes
- Pens, pencils and erasers (different colors are recommended)

## **Grades** – aka “How do I get an A?”

Simply put, you earn it. In addition to labs, lectures and daily classroom activities, there will be some form of homework nearly every night. You must come to class prepared and be on task in order to succeed. It is also your responsibility to seek extra help when you need it.

### Grading Scale

**A** = 90.00% - ∞%   **B** = 80.00% - 89.99%   **C** = 70.00% - 79.99%   **D** = 60.00% - 69.99%

**F** = All scores below 60%

### Grading Breakdown

Tests & Quizzes = 50%

Homework & Labs = 30%

Active Class Engagement & being present and on task = 20%

### Grade Reporting

Grades are considered feedback on the quality of your work. They are not a negotiation. Any request for a grade change should not expect a response. Grades will be updated periodically on Aeries. If you believe there is an error, submit your Aeries grade along with the graded assignment within one week of it being graded.

Me: I don't need to study  
Also me: \*Gets 14 on Physics test\*  
Me:



When your teacher won't round your  
39% to an A



“As our circle of knowledge expands, so does the circumference of darkness surrounding it.” – Albert Einstein

**Classroom Policies** (These are subject to change based on a transition from online)

**Be on time & ready**

We will start immediately at the beginning of class. Plan on logging in and joining early.

**Your work must be your own**

All school policies on Academic Integrity apply

**Be an active class participant**

You are expected to be in class free of other distractions with your camera on. The same expectations apply whether we're together as a full class or in smaller groups.

**Absences**

Unexcused absences will earn a 0 for all assignments, labs and tests that day.

Prearranged, excused absences (college visits, sports, clubs, field trips, creating a vaccine, etc.) must be arranged with Mr. Greenberg before the absence. If you do not make other arrangements with Mr. Greenberg, you will be expected to turn in all work and take all assessments during your absence **before** you leave.

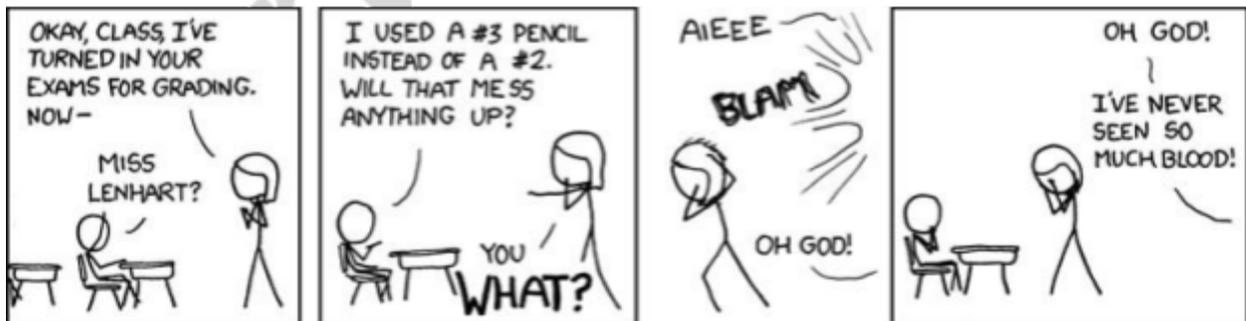
**Electronic Devices**

The classroom adheres to all District and School policies regarding electronic devices.

Improper use of electronic devices may result in a citizenship grade of "U"  
(Unsatisfactory) and/or disciplinary action.

**Class Materials**

All materials provided for this class are copyrighted property of Mr. Greenberg and PVPHS. Copying or distribution of these materials without express written consent is prohibited.



## AP Physics Assignments: Expectations and Guidelines

- **All work must be your own. No exceptions.** The Academic Integrity, Cheating and Plagiarism Policies of Palos Verdes Peninsula High School apply to all assignments, labs, assessments and activities.
- Assignments will have a due date and time. Plan in advance to have your assignments submitted before then. Late submissions will receive late credit.
  - Late work is accepted for 0-24 hours after it is due. It will receive half credit. After 24 hours, late work will receive zero credit.
- All assignments that you have known about for 3 days or more must be turned in on the due date. If you are absent, make other arrangements to have them turned in on time.
- If you miss this class with an excused absence, but are able to attend school the same day, you are expected to complete all labs, quizzes & exams before the end of school that day.
- Show all of your work, including the mistakes. Making mistakes is encouraged and is the best way to learn physics.
- Some students go to tutors, teachers or peers for extra help. While they are often helpful in learning the material, you cannot submit their work as your own.



## **The AP Exam**

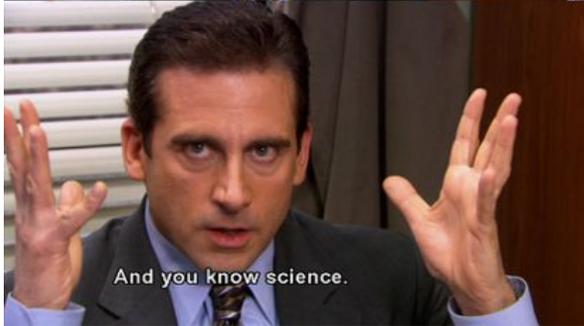
The AP Physics 2 Exam will take place in May. It will be half multiple choice and half free response. The exam is primarily focused on physics concepts and phenomena, and your ability to explain them. You will be given an equation sheet and be permitted use of a scientific calculator on all parts of the exam.

You may qualify for a grade change based on your AP Exam score if you average an A on your homework and...

- A score of a 5 can improve two letter grades, either one letter each semester or two letters for one semester.
- A score of a 4 can improve one letter grade for one semester.
- Your grade will remain unchanged for all other AP scores.

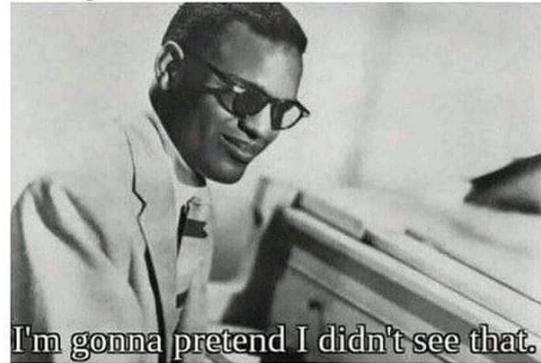
### **Greenberg's Physics Tips**

- Bring the best of yourself everyday. Nobody can ask more of you than your best.
- The school year is a marathon, not a sprint. Don't be like pancakes: All exciting at first, but by the end, you're sick of them.
- Embrace the challenge. This class can be tough at times. The learning and growing you'll experience will be a worthwhile endeavor.
- Build your physics stamina like you would build athletic stamina. Practice a bit every day instead of cramming all of your work into one long session.
- Have fun with this class. You have to be here about 180 times between now and June. Why not make the best of it?



Air resistance: \*exists\*

Physics:



When the kids in your physics class keep calling omega "w" and alpha "fish"

