AP Physics I

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Class Description

Physics is everywhere! This course will impact every part of your life. In other science courses you may have learned about various topics, regurgitated the required information on tests, and then more than likely forgot everything. In physics, you will learn how to **think**. The entire course can be summed up by a handful of basic principles, yet it will take you an entire year to learn how to **think** and use those principles to attack new and unfamiliar problems. In this course we will investigate these principals through extended, practical laboratory exercises. Students must have a strong mathematical ability (fluency in algebraic manipulations, geometric relations, trigonometric functions, etc.)

Be brave and believe in yourself!

Supplies

- Scientific Calculator (***required)*** – The calculator must be able to perform simple +,-,×, ÷, and trigonometric operations (sine, cosine, tangent). Calculators that can perform more advanced operations are optional.
- Notebook – It is highly recommended that you keep a notebook to record your progress throughout the semester and to help prepare for quizzes and exams.
- **NO PENS ARE ALLOWED** – Due to a fundamental design flaw, mistakes are difficult to correct with pens. You will be making numerous mistakes throughout this course.
- **OPTIONAL** - USB flashdrive devices are required to save data and ongoing projects throughout the course.

Classroom expectations

Be on time. Be prepared. Be respectful. Do your best. ***Believe in yourself.***

- Be professional (I like to be impressed). Ask questions. Help each other.
- Self-moderate your technology usage. ***Cell phones are not permitted at any time for any reason.***
- **NO EATING OR DRINKING IS ALLOWED IN THE CLASSROOM –** continued eating/drinking will result in detention. Drinking water is acceptable. Please throw away or leave your food/drink items on the table as you enter, otherwise place those items in your bookbag.
- No one is permitted to leave the class during the ***first and last 15 minutes***.

Lab Safety

When you are doing laboratory exercises, you will be expected to follow all safety procedures given. Safety procedures will always include the following:

- **NO HORSEPLAY. BE SAFE. USE COMMON SENSE.**
- Wear safety gear (face shields, aprons, etc.) when instructed.
- Read **ALL** directions before proceeding.
- Clean up your lab station so that it is neat for the next group to use it. Failure to do so will result in a grade deduction for that lab activity.
- Do not remove any laboratory materials from the classroom.

Failure to perform any of the above safety guidelines will result in after-school disciplinary consequences.

Grading

All grades will be reported in Sapphire, which can be accessed through a link located at www.slsd.org/parents.cfm. To measure the multiple intelligences of students, a wide variety of assessments will be used in the course. Quarter grades will be determined as follows:

60% - Assessments (Quizzes / Tests)
30% - Labs / Projects
10% - Homework / Classwork

Each marking period is worth 20% of a student's overall grade and the final exam is worth 20% of a student's overall average:

Quarter 1	20%
Quarter 2	20%

Quarter 3	20%
Quarter 4	20%
Final Exam	**20%**

The final exam will be composed of a traditional, written final exam (60%) and a final exam project (40%). The combined performance on both parts will be used to determine the final exam grade.

Homework

Homework will be assigned in class and through the course website (the website will be given during class). You are required to turn in paper solutions to your homework when it is collected. **NO PAPER SOLUTIONS MEANS NO CREDIT. ALL LATE WORK MUST BE COMPLETED BY THE NEXT CLASS TO RECEIVE PARTIAL CREDIT.** If you are absent, your homework will be due by the next time class meets, but with no penalty. If you are sick, please check the website, speak to a friend, or contact me about what you missed. It is imperative that you stay current with the class. **EXPECT NEW HOMEWORK ASSIGNMENTS ON SNOW DAYS!**

Course Textbook

We will be using "College Physics" by Serway and Vuille (Brooks/Cole, 2012). Digital copies of the book will be available online and hard copies will be available during class. Directions on how to access the textbook and Canvas can be found at the website at the top of the previous page.

Tardy Policy

Class starts promptly. To be on time, you must be ***in your seat***, ***ready to work***, ***when the bell rings***. **Any variation from the previous description will be considered as tardy and the appropriate disciplinary action will be taken**.
If you arrive late to class, it is ***your responsibility*** to sign the "late arrival" clipboard to have your absence changed to a tardy.

Bathroom Passes

The most appropriate time to use the bathroom or the water fountain is prior to the start of class. If you need to make an emergency bathroom or water fountain visit during class, **please choose an appropriate time to obtain a pass from me.** If you choose an inappropriate time (in the middle of a lecture or discussion, during a test, etc.), I will not allow you to go. Abuse of this privilege will result in the suspension of bathroom and/or water fountain visits. If you have a legitimate medical excuse, please contact me privately.

Just A "Few" Words About Labs…

(1) **Obtain a SLHS login and password ASAP!** You will need to be able to login on the school's computers in the next day or two. If you do not have a login, please visit the Hub to create one as soon as possible.

(2) **Turn in Requirements for Labs:**
All lab work must be ready and turned in **at the beginning of class**. A lab write-up printed at the beginning of class will be considered as late (no excuses whatsoever). *Under no circumstances should you email me your lab!* **FOR LAB ASSIGNMENTS I WILL DEDUCT 5% OF THE FINAL LAB GRADE FOR EACH SCHOOL DAY LATE.** Except for dire emergencies, such things as family trips, school trips, and personal work are not excuses for late assignments. If you have a problem, work with me in ADVANCE. If you come to me in advance, I can usually work something out for you. The key word is **"A D V A N C E"!**

(3) **Use of Modern Computer Technology:**
Often, we will be making use of the school's laptops and desktops. During these times, plan ahead. At times, there will be a large demand on these computers by physics students to work with spreadsheets, to plot graphs, and to generate data tables. You will be required to budget your time wisely in order to have access to the equipment you will need. Do not complain if you fail to complete an assignment because you didn't have enough time to access the equipment. I will always give you adequate time if you use it wisely. Don't even think about waiting until the eve of the

due date to finish your school-based computer work! Be sure you own a flashdrive so you can access/move data easily between home and school, even when the internet is not working for you. If you do not have a flashdrive, emailing yourself your data or utilizing Spartandocs are additional methods to move your work.

NOTE: This course may require your presence during Spartan periods to catch up on your lab work.

(4) **Group Work During Individual Lab Write-Ups:**

During the write-up of required labs you may collect and analyze data in groups to your heart's content. In fact, I recommend it. However, for individual write-ups do not help your buddies ***write*** the lab. The help must stop at the completion of the data analysis. Any individual write-ups that are obviously similar will be returned to be rewritten with appropriate/severe grade deductions. Each member of the group MUST have a complete set of data and results (you may not reference each others' papers). You will receive further instructions later in the course.

(5) **Appearance of Long-Term Materials:**

I DEMAND NEAT WELL-WRITTEN REPORTS. All formal lab write-ups must be typed on 8 1/2 x 11 inch paper with 1 inch margins, in Times New Roman (size 12 font), and double-spaced. I am picky about graphs. Put extra effort into them. You will receive further instructions very soon. Neatness is extremely important. Keep your work clean and simple. If the paper is messy or is "thrown together," you will have to rewrite it.

(6) **Lost Data or Perish the Thought - Lost Write-Ups!:**

During the data processing stage of a lab, BE SURE TO HAVE AT LEAST TWO COPIES OF THE DATA. There is nothing more frustrating than having to do the lab again because you lost the only copy or because the only person with data is out of town. Never discard the original data or rough write-up. There is at least one time during the year when data from a prior lab can be used again. Do not delete old files.

Assessments

If you are absent, it is your responsibility to stop by during Spartan Period or before/after school the following day to seek assistance from Mr. Deyton. You will be responsible for taking quizzes and tests on their assigned dates, even you if are absent the class before the test. Mr. Deyton will be respectful in that he will not cover additional, new material the class prior to a test. If you are absent the day of a quiz or test, you will make it up immediately in class upon your return. Tests not made up within two classes of your return will receive a zero.

Missed Classes and Tests

From page 32 of the student handbook:
"Assignments During Absence - When a student is absent from school it is the student's responsibility to communicate with their teachers via email or check assignments posted on the teacher website. The main office no longer collects or gathers student's assignments for absences. Although students are encouraged to keep up with assignments while absent, ***the student has two school days upon returning to make up any work missed***. It is the student's responsibility to take the initiative in arranging for make-up work. However, if a student is absent on the day of a test and he or she has not been absent for work covered on the test, he or she is expected to be prepared to take the test upon returning."

Field Trips

This class will attend Dorney Park in the spring and you will analyze several rides via measurements and apply the knowledge gained throughout this year.

Communication

This class utilizes "Remind" as a way to communicate with students. Please be sure to sign up at www.remind.com using the access code "foozle".

Student Interest Survey
(to be completed by the student)

Five years from now I want to …

I love when …

I hate when …

Tell me about a good movie/book you've seen/read recently and why you liked it.

The title of a book about my life would be …

My heroes are…

Hamburger, hotdog, or veggie-burger?

Class Schedule

1st Period	2nd Period	3rd Period	4th Period
A (Odd)	A	A	A
B (Even)	B	B	B

Student Information Sheet
*Please **print** clearly*
(to be completed by parent/guardian and signed by parent and student)

Last Name _____ First Name _____ Middle I. ___

Home Phone_____ Emergency Phone _____

Parent or Guardian _____ Relationship: _____

Parent or Guardian _____ Relationship: _____

Parent or Guardian Work Phone: _____ Parent or Guardian E-mail: _____

Home Address _____

City _____ State _____ Zip Code _____

If your child has a personal issue (IEP, 504, vision, medical, etc.) that I should be aware of, or if you have any other questions/ concerns, please list them here:

_____

_____

Statement of Understanding Class Policies

We have read and understood the policies addressed in the AP Physics I syllabus.

Student signature _____

Parent signature _____ Date _____