

**Course:** AP Physics

**Text:** Physics by Giancoli

**Web Site:** [www.argophysics.com/dwyer/](http://www.argophysics.com/dwyer/)

**Email:** chsdwyer@yahoo.com

**Teacher:** K Dwyer

**Phone:** 220-4144

**Room:** 209

**Conference:** Per. 4 (11:17-12:09)

**Course Description:** The AP Physics course includes topics in both classical and modern physics. A knowledge of algebra and basic trigonometry is required for the course; the basic ideas of calculus may be introduced in connection with physical concepts, such as acceleration and work. Understanding of the basic principles involved and the ability to apply these principles in the solution of problems are the major goals of the course. AP Physics will cover the following five content areas: Newtonian mechanics, fluid mechanics and thermal physics, electricity and magnetism, waves and optics, and atomic and nuclear physics..

**Course Objectives:** This course prepares the student to pass the Physics B Advanced Placement Test in May and will help prepare students for any future Physics taken in college. The students will be engaged in activities that support all of the CHS Expected Schoolwide Learning Results:

- 1. Essential Skills: Students will acquire the mathematical computational and reasoning skills needed to analyze and solve problems in Physics, identifying the appropriate principles and mathematical relationships needed..*
- 2. Critical Thinking Skills: Students will engage in complex problem solving and analysis.*
- 3. Technological Skills: Students will utilize a variety of scientific instruments to gather and analyze data to discover and confirm certain concepts.*
- 4. Career Planning Opportunities: Students will observe the power of physics as it is utilized in numerous occupations through problem solving applications.*
- 5. Life Long Learning: Students will focus upon individual achievement and behavior accountability in an atmosphere conducive to mutual respect, individual growth and personal safety.*

### **School Policies:**

**Cheating:** Students who cheat on a test will be given a "0" grade for that test. Students who cheat a second time will receive an F and be removed from the class.

**Tardies:** Students who are tardy will receive a 60 minute detention. Repeated offenses will result in administrative action as well.

**Class Cuts:** On the 1<sup>st</sup> class cut, a two hour detention will be assigned. On subsequent class cuts there will be administrative action.

### **Departmental Policies:**

**Homework:** Nightly assignments will be given. Assignments are to be completed by the date given when assigned. Late work will receive no more than ½ credit. Assignments not completed by the test will be severely penalized. No work will be accepted after the test for the given unit.

**Make-up work:** There will be a one day extension for assignments and tests for each day of verified excused absence. There is no make-up for unexcused or unverified absences. Excessive absences on or near the test day will require direct parental contact for make-up work to be accepted.

### **Textbook:**

**Cover:** Textbook must be covered at all time, subject to a fine, detention, or loss of use the book.

**Damage:** Students must note damages to textbook on the textbook checkout card at the time of receipt of the book. If a book is damaged during the year, the students will be held responsible for the replacement cost.

**Water Damage:** If there is any evidence of water damage or stains from something spilled on the book or left in the rain, the student will have to pay for a replacement book.

**Responsibility:** You are responsible for any damage to the book, so do not lend it to a friend or leave it where it could be damaged or stolen. If a book is lost, the student will be required to pay the replacement book.

**Class Web Site – [www.argophysics.com/dwyer/](http://www.argophysics.com/dwyer/)**

[www.argophysics.com/dwyer/](http://www.argophysics.com/dwyer/) is our class web site. It contains course information, a listing of the Physics standards that we will cover and links to numerous useful and fun Physics sites.

**Grading Scale:**

A: 90-100% B: 80-89% C: 70-79% D: 60-69% F: Below 60%

Final percentage is determined by calculating the total points earned on all tests, quizzes, homework assignments, class work assignment, lab work, and class participation. This total is then divided by the total points possible. *Remember grades can be checked on **Zangle** by students and parents at any time. I will update the grades after every test.*

**Grades:**

**Unit Tests and Quizzes:** Approximately 70% of the grade.

**Unit Tests:** Given at the end of each unit and kept on file at school.

**Quizzes:** May be given at any time.

**Assignments:** Approximately 30% of the grade

**Homework:** will consist of Questions (which must be answered in complete sentences) and Problems (which must have all work shown and formulas shown).

**Labs:** There will usually be at least one laboratory period per unit, more if at all possible. These labs will be completed in class and write-ups will be turned in one or two days later. Make-up labs are to be done by appointment only. Format of write-ups will be explained with each lab.

**Activities:** There will consist of various types of tasks—demonstrations, Review problems, Supplemental problems, video worksheets, etc.

**Class work:** At the beginning of many class periods, there will be a short assignment to be completed at that time. These questions will deal with concepts of physics and may be on any topic.

**Student Planners:** Students will keep a daily record of class activities and assignments in the school planner. These will be checked periodically and be part of the participation grade.

**Notebook:** Each student will keep a separate notebook for this class. Notebooks will be worth 50 points and will be collected near the end of each quarter.

Notebooks should contain the following:

- 1) Title page
- 2) This course outline.
- 3) Physics State Standards (I will give you this)
- 4) Class Notes in order by date and unit.
- 5) Assignments/Labs in order by date.

**The Hook:**

**Removal from Class:** Any student who does not perform satisfactorily is subject to removal from the class. This will include students who receive lower than a grade of C for any quarter grading period and/or students whose homework scores are below 75% for any quarter grading period.

I have read and understand the policies for Mr. Dwyer's Physics class. I understand that I can check grades on Zangle at any time and that grades will be updated after every test (approximately every two weeks).

Student Name: \_\_\_\_\_ (Please print clearly)

Student Signature: \_\_\_\_\_

Parent Signature: \_\_\_\_\_

Parent E-Mail address: \_\_\_\_\_

**TURN IN THIS COMPLETE PAGE. Keep the other copy in your notebook.**

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(A copy of this page is available online at [www.argophysics.com/dwyer/](http://www.argophysics.com/dwyer/). Click on AP Physics.)

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**KEEP THIS COPY IN YOUR NOTEBOOK**