

AP Physics C: Mechanics
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Room A208

Course Overview

The Physics C: Mechanics course is equivalent to a one-semester, calculus-based, college-level physics course. It is especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as kinematics; Newton's laws of motion; work, energy and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Introductory differential and integral calculus is used throughout the course.

Laboratory Procedures

During the term, we will be performing numerous labs and hands-on activities and projects to introduce as well as reinforce concepts. Labs are an integral part of science and participation by each student is essential for success. Participation includes working cooperatively with you lab partners, following all safety rules, using time wisely, and cleaning up the work area upon completion of the assignment. Student safety is of utmost importance.

- 1) All students will be required to get a parent's signature on a safety contract prior to participation in any labs. If the safety contract is not signed prior to the first lab they will receive a grade of zero for that lab. This will be cosigned by the parent or guardian.
- 2) All students must pass a safety quiz with a grade of 100 before they are allowed to participate in labs.
- 3) Any type of roughhousing, horseplay, or other forms of unsafe behavior while conducting a lab will result in an immediate referral to the office.

Text book

Physics for Scientists and Engineers, Vol. 1, 6th: Mechanics, Oscillations and Waves, Thermodynamics, 6th Edition by [Paul A. Tipler](#) (Author), [Gene Mosca](#) (Author)

Three websites that will be vital for your success this year:

- (1) Skyward: <http://www.mansfieldisd.org/skyward.htm> This is our grade book system. Your grade should be monitored frequently – there should be **no surprises!!!**
- (2) Our class website: We will be using Google classroom. **Students are strongly encouraged to have their iPad or a laptop every day.**
- (3) Khan Academy– <https://www.khanacademy.org/science/physics>

PLEASE UTILIZE THESE RESOURCES!!!

Classroom Rules

1. Show respect for other's opinions and personal space
2. Respect school and personal property
3. Follow instructions from teacher
4. Come to class prepared and be on task at all times

ANY RULES NOT ADDRESSED IN THIS LETTER WILL BE FOLLOWED IN THE CLASSROOM AS PER THE HANDBOOK GUIDELINES.

Grading Breakdown

Tests: 50%
Labs: 30%
Daily: 20%

Homework assignments will be assigned as needed and reviewed for questions. Homework will be checked for understanding and will be turned in each week daily quiz. A homework quizzes will be given to check for understanding of the homework. A test will be given approximately every 2-3 weeks, depending on the complexity of the material.

TEST RETAKES (as per MISD handbook)

- Students who fail a major test/assessment (below 70%) will be allowed to retake or correct up to a 70% grade. This does not include semester examinations.
- Students are expected to arrange with the teacher to retake or correct a major test/assessment.
- Students are encouraged to participate in tutoring opportunities before retaking a test.
- Each teacher will communicate routine requirements for retakes and corrections in his/her course syllabus.
- All retakes or corrections must be completed prior to the end of each six week grading period unless the student is afforded time, after the six week grading period, as a result of the district's absent/make-up guidelines.
- See UIL Eligibility ("No Pass/No Play") guidelines for additional information related to grades and UIL Eligibility

Tutorials

There will be tutorials available Tuesday and Thursday from 2:30-3:20. All retests will be given on the Thursday afternoons. All retests and tutorials will be held in room A208.

Late Work

Students may be assessed a penalty of no more than 10 points per A or B day (this is not calendar days) for up to a maximum of three class periods before a zero may be given for work not turned in on time. If a student is absent, all school policies will be followed for make-up work. **IT IS THE STUDENT'S RESPONSIBILITY TO TURN IN ANY LATE WORK BEFORE OR AFTER CLASS TO RECEIVE APPROPRIATE CREDIT.**

Extra Credit

Extra credit will be given on tests and quizzes in the form of enrichment/AP level questions on tests and quizzes.

Supply List

1. Pencils
2. School issued laptop
3. A scientific calculator
4. A protractor
5. Box of tissue

Academic Dishonesty

Cheating and plagiarism will not be tolerated. Assignments that use the internet as a source must include appropriate citation/credit. Lab discussion and conclusions MUST be in your own words. District policies as outlined in the student handbooks will be followed.

Communication

Parental involvement is key to a student's success, and therefore it is extremely important that I have some way to contact you. The best and easiest form of communication is via e-mail or telephone call. If you need to reach me, please call 682-314-1600 or email at annettegonzales@misdmail.org. Please take a minute to provide parent contact information by scanning the QR code below or using this link <http://goo.gl/forms/WFUJ8rXIRW>

