

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

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| <i>Physics for Scientists and Engineers, Vol. 1, 6th: Mechanics, Oscillations and Waves, Thermodynamics, 6th Edition</i> by <a href="#">Paul A. Tipler</a> (Author), <a href="#">Gene Mosca</a> (Author) |
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### 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.

### Classroom Rules

1. Show respect for others opinions and personal space
2. Respect school and personal property
3. Follow instructions from teacher
4. Come to class prepared
5. Be on task at all times
6. Be in your seat and ready for class when the tardy bell rings

Students will not be allowed to enter the classroom with food or drinks that do not have a spill tight cap. Any tardies accrued due to non-compliance of this rule is the student's responsibility.

**Electronics** – All electronics, including but not limited to cell phones, laptops, and mp3 players will ONLY be utilized when deemed appropriate by myself. Penalties for violating this policy might include taking the item up or a referral. Confiscated items will incur a \$15 fine per district policy.

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**Grading Rubric**

|                 |     |
|-----------------|-----|
| Tests/Projects: | 50% |
| Labs/Quizzes:   | 30% |
| Daily/Homework: | 20% |

The semester grade will be calculated as follows:

$$(1^{\text{st}} \text{ 6-wks} \cdot 26.6\%) + (2^{\text{nd}} \text{ 6-wks} \cdot 26.6\%) + (3^{\text{rd}} \text{ 6-wks} \cdot 26.6\%) + (\text{Semester Exam} \cdot 20\%) = \text{Semester Grade}$$

**Retesting**

- 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 make arrangements 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.

**SEMESTER AND FINAL EXAMS ARE NOT ELIGIBLE FOR RETAKES.**

**Tutorials**

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

**Late Work**

- Teacher designates due date and time for assignment (Beginning of class period, End of class period, designated time of day)
- If student fails to meet the due date and time, then the student has till the next class period (next A day or B day) to turn in assignment to be considered one day late.
- Students will be assessed a penalty of 30% points for up to one class period late.
- Score of a zero may be given for work turned in after one day late.

**MAKEUP WORK** (because of absence for any class missed)

- The teacher may assign the student makeup work based on the instructional objectives for the subject or course and the needs of the individual student in mastering the essential knowledge and skills or in meeting subject or course requirements.
- A student will be responsible for obtaining and completing the makeup work in a satisfactory manner and within the time specified by the teacher. When absent, the student is afforded the number of days missed plus one additional day to turn in makeup work. [A/B Block Example: A student misses Monday and Tuesday of the week and he/she returns on Wednesday of that same week. Student work from Monday's absence is considered late after Friday, and student work from Tuesday's absent is considered late after the following Monday.]
- A student who does not make up assigned work within the time allotted by the teacher will receive a grade of zero for the assignment.
- A student is encouraged to speak with his/her teacher if the student knows of an absence ahead of time, including absences for extracurricular activities, so that the teacher and student may plan any work that can be completed before or shortly after the absence.
- A student will be permitted to make up tests and turn in projects due in any class missed because of absence. Teachers may assign a late penalty to any long-term project in accordance with time lines approved by the principal and previously communicated to students.
- See UIL Eligibility ("No Pass/No Play") guidelines for additional information related to grades and UIL Eligibility.

**Extra Credit**

Extra credit will be given on tests and quizzes in the form of enrichment or advanced level questions on tests and quizzes. Periodic extra credit assignments may be assigned.

**Supply List**

1. Pencils
2. A scientific calculator; graphing is not necessary but encouraged
3. Box of tissue

### **Academic Dishonesty**

Teachers determine what constitutes cheating and/or plagiarism.

### **Consequences for academic dishonesty**

#### **Daily Work**

- Every Offense
  - Academic and Disciplinary Consequences
  - Assign grade of zero
  - Write a referral
  - Teacher contacts parents
  - Consequence from administrator would be a minimum of AC placement

#### **Exams or Other Major Assessments**

- Every Offense
  - Academic and Disciplinary Consequences
  - Assign grade of zero
  - Write a referral
  - Teacher contacts parents
  - Consequence from administrator would be a minimum of AC placement
  - An alternative exam or major assessment can be completed for a maximum grade of 70%
  - Academic Associate is notified and will schedule a meeting with student, parent and teacher

### **New this school year: AP Common Assessment information**

AP Common Assessments serve as instruments to provide direction in the instructional decision-making process for students, staff, and parents. Assessment for learning is an ongoing, interactive process that supports the curriculum framework and alignment of the written, taught, and tested curriculum.

### **Purpose**

- To measure the extent to which students are learning curriculum standards/objectives so that appropriate adjustments can be made during the teaching/learning process
- To improve student learning
- To provide consistency in measuring student progress on the district curriculum
- To assist in determining professional development needs for teachers
- To audit the quality of the curriculum so that appropriate adjustments can be made

### **AP Common Assessments**

- Check and assess student mastery of a discrete part of the curriculum
- Serve as the basis for gathering information to make curriculum decisions
- **Aligned to the rigor of the AP Standards**
- Once graded Common Assessments should be discarded 10 business days after six weeks grades are posted
- Modeled after AP exams
- Must be modified by the teacher when specified by IEPs or 504s
- Are required to use the digital submission feature for scoring (do not include retests in DMAC)
- Are test grades for the six weeks and are subject to the retest policy
- Are copied on campus by the AP teacher or the Campus Data Specialist

**Common Assessment Grading:** All Common Assessments will count as test grades in the six weeks that they are given. Like all test grades, the MISD retest policy is in place. Only first administration test grades are entered into DMAC.

### **Common Assessment Dates for AP Physics C**

CA#1 November 8-9

CA#2 February TBA

### **Upcoming Topics**

| <b>First Grading Period</b>   | <b>Second Grading Period</b>   | <b>Third Grading Period</b>  |
|---|--|--|
| <ul style="list-style-type: none"> <li>• Lab safety</li> <li>• Lab practices and ethical practices</li> <li>• Kinematics</li> </ul> | <ul style="list-style-type: none"> <li>• Newton's Laws of Motion</li> <li>• Work</li> <li>• Energy</li> <li>• Power</li> </ul> | <ul style="list-style-type: none"> <li>• Work</li> <li>• Energy</li> <li>• Power</li> <li>• Systems of particles</li> <li>• Linear momentum</li> </ul> |
| <b>Fourth Grading Point</b>   | <b>Fifth Grading Period</b>  | <b>Sixth Grading Period</b>  |
| <ul style="list-style-type: none"> <li>• Circular Motion</li> <li>• Rotational Motion</li> <li>• Torque</li> </ul>                  | <ul style="list-style-type: none"> <li>• Oscillations</li> <li>• Gravitation</li> </ul>  | <ul style="list-style-type: none"> <li>• AP Test Review</li> <li>• Various Physics Projects</li> </ul>   |

### **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](mailto: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>

