

AP Physics 1
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Room A-208

Course Overview:

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. The course is based on six Big Ideas, which encompass core scientific principles, theories, and processes that cut across traditional boundaries and provide a broad way of thinking about the physical world. The following are Big Ideas:

- Objects and systems have properties such as mass and charge. Systems may have internal structure.
- Fields existing in space can be used to explain interactions.
- The interactions of an object with other objects can be described by forces.
- Interactions between systems can result in changes in those systems.
- Changes that occur as a result of interactions are constrained by conservation laws.
- Waves can transfer energy and momentum from one location to another without the permanent transfer of mass and serve as a mathematical model for the description of other phenomena

Text book

There will be a limited class set of physics books to be used as reference. You will have access to the online IPAD eBook Titled *Physics 7th Edition*, by Giancoli, copyright 2014. You will also be registered to access the book's online resources at masteringphysics.com.

Laboratory Procedures

This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices. 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 cosigned by the parent or guardian. **A lab safety contract signed by a parent or guardian will be required and will count as your first lab grade**
- 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.

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) Bozeman Science - <http://www.bozemanscience.com/ap-physics-1-video-list> This website contains video lessons we will utilize. It has an enormous amount of information.
- (4) 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.

Absences/ Tardies

See student handbook for district attendance policies. It is **YOUR** responsibility to get any missed information, which includes but is not limited to warm-ups, notes, and assignments. If you miss a test or quiz, you will have one class day from the date the assessment was administered to make it up; otherwise, it will remain a zero. **Being absent on a review day does not entitle you miss the test or quiz the following class.** It is imperative you attend tutorials if you are absent! All tardies after 3 will result in a referral and the assistant principal will determine the appropriate course of action. Be aware of the following statement in the student handbook

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

Test retakes for students receiving a grade under a 70 on all major tests within six weeks will be offered when the following requirements are met. A student will receive the grade they make on the retest up to a 70 even if they score higher than a 70 on the retest.

1. In order to be eligible for a retest, a student must have received a grade below a 70.
2. The student **must come in to review the previously failed test** to better prepare for the retest. Tutorials can occur during advisory or after school as necessary.
3. Test retakes will be given only on Thursday afternoons unless otherwise scheduled by the student.
4. Retests must occur within two weeks of the original test and **MUST** occur before the end of the six weeks grading period!

SEMESTER AND FINAL EXAMS ARE NOT ELIGIBLE FOR RETAKES.

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.**

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

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.

SupplyList

1. Pencil
2. School issued laptop (will use frequently for lab activities)
3. A scientific calculator; graphing is not necessary but encouraged
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>

