

Concepts Physics

Welcome to physics with Ms. Agnostak and Mr. Marretta! In this class, we will be constructing physics concepts and models through observation, testing and application experiments. Just like scientists, there will be time for individual work as well as time to work collaboratively with other members of the class in order to solve problems. The goal of this course is for students to become scientifically literate and use scientific reasoning to analyze the world around them. As long as you work hard and pay attention, you will be successful in this class!

Contact Information

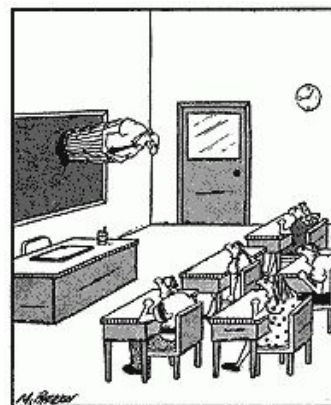
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"Good morning, and welcome to
The Wonders of Physics."

Materials

For this class you will need the following materials

- Notebook/paper to work in and take notes
- Binder to place all handouts in
 - NOT a folder!
- Calculator
- Pencil

Topics Covered

- Kinematics
- Dynamics
- Uniform Circular Motion and Planetary Motion
- Momentum
- Energy
- Electrostatics
- Circuits/Magnetism
- Wave Properties
- Optics

Textbook

There is a classroom set of textbooks. A copy of the textbook for home use is available upon request.

Classroom Expectations

- Please arrive on time to class
- Students should always be respectful towards their peers. This is a class where ideas and opinions guide the instruction, so respect towards others is key in order for the class to function.
- Do not impede the learning process of your fellow classmates.
- Plagiarism and cheating are serious infractions and will be treated as such. If it is found that you have cheated or plagiarized you will receive a zero for the assignment and you will be referred to the assistant principal. This includes all individual submitted labs. In instances where there is more than one person involved, both people will be disciplined equally.
- If you are absent, you will be expected to obtain missing work and make-up any missing work. If you miss a test or quiz you need to make it up as soon as possible, preferably 1 day after you return to school. If you know you will be missing in advance, please inform the teacher so that arrangements can be made to make up any work you will miss.
- All work done outside of class must be completed on your own unless otherwise stated.

Grading and Resubmits

This class will consist of homework, formal labs, quizzes and tests. Grades will be calculated based upon a total points system. All assignments are to be completed individually unless you are told otherwise..

Homework: Homework will be assigned frequently, and will usually be submitted in Google Classroom and will be graded for effort and completion only, not correctness. However effort on the homework problems is highly correlated with content mastery and test scores. We will generally not discuss the homework problems in class, although answers will be provided. It is your responsibility to ask questions or come for extra help if needed.

Lab Reports: The lab reports will consist of informal labs. While the design and performance of a lab investigation is a group task, the lab report you submit must be your own work, written in your own words..

Quizzes: Quizzes will be given occasionally in the middle of a unit in order for you to assess your understanding of the topics in a unit. You have the opportunity to resubmit your quizzes in order to get a better grade. In order to do this, you need to correct the mistakes you made on the quiz along with a short explanation as to what you did incorrectly the first time and what you learned. You can only receive a maximum of half of the points back that you originally lost. For example, if you had a grade of 70%, then the maximum grade you could receive after you do your re-submit is an 85%.

Tests: Tests will be given at the end of each unit. Your grade in this class will primarily be based on your test scores.

Helpful Advice

Below is some advice from the students who took physics in the past.

- Work hard on labs and do practice problems.
- Do your homework and make sure you study!
- Pay attention and don't be afraid to ask for help
- Always do the Homework
- Physics isn't that hard if you pay attention
- Don't make problems more complicated than they actually are.
- Copying people's answers will not help you
- This class contains many packets and many interactive labs.
- Don't leave answers blank- partial credit is almost always possible
- Do not fail the quizzes just because you get half the points back
- I wish I knew that everything in physics builds off of each other. It is June and we are still using kinematics and kinematics equations in topics we've covered recently. I wish I knew to not just throw kinematics out after the test. The same goes for dynamics especially. Force diagrams appear in almost every unit so I wish I knew to not forget about those after the dynamics test.
- Everything moves quick
- That Physics is going to be difficult at first because you aren't used to this type of science. It will be frustrating, but then after lots of practice you will understand it and it will be 1000x easier. You just need to get used to physics.
- Bring a calculator and pay attention