Physics is the science that gives the mathematical explanation of the world. "[I see in Nature](http://b110.htm) a magnificent structure... that must fill a thinking person with a feeling of humility..." -Albert Einstein

**Materials**

* Book: [Physics Classroom](https://www.physicsclassroom.com/), I will have link in schoology to specific section for each topic discussed.
* The notebook for notes & homework. It can be anything you wish, as long as you have one location to put all of your materials.
* Pens, multiple colors for notes
* Pencils and an eraser
* Calculator either TI-83, 83plus, 84, 84plus, 89, Nspire CX, geogebra app (phone)
* The calendar link to my google calendar can be found on X2. The google calendar can be added to yours by clicking in the lower right corner of mine. Then updates will be posted to you.
* You also must have an account with schoology.com (the access code is given in class)

**Description/Objectives**

This course is designed to cover the major topics such as: kinematics, energy, momentum, circular motion, gravity, electricity, waves and light. When this course is finished you should be prepared to move into college physics with confidence. This course is very much like another math class, where we do word problems all the time.

# **Expectations/Rules**

* Enter room, place your phone (on silent) into your given slot in the rack by the door. If you wish you may place your phone on the charging station at the front of the room instead.
* Take out notebook, pencil, calculator and homework. Write the numbers of the problems you wish to go over on the board. If a number you need is already written, place a check mark next to it.
* You are responsible for showing me your corrected previous night’s homework. I will check in schoology, to be sure all homework has been submitted. Then I will walk around the room at the start of class to look on your desk for the completed work for the assignment.
* We will go over the two/three most requested problems from the previous night’s homework.
* If you had major problems and cannot understand what was done on multiple other problems, even after we go over problems, you should come see me, check extra help schedule.
* After the new topic for the day has been discussed the remaining time in class will be used to work on inquiry labs/group problems/homework.
* If you need extra help (better to be pro-active, not re-active) I will be available in 104.
* Practice in daily classroom behavior respectful attitude towards the other member of the class.
* No food allowed in the room. Drinks must be in a closed container.

# Policies

The power points of the notes are available online at schoology.com, for you to print out if you wish. This can then be used as an outline of your notes. You will then write and fill in around this outline. Your notes and homework should be kept in one notebook in a dated and orderly fashion. You are not taking pictures of displayed work, write it down! This helps keep it in your head.

There will be approximately 20-30 minutes of homework a night. If you are absent you can find the homework online, by checking my website/calendar. Sometimes homework will take longer, but I will try to balance these days with a lighter day, at a time of my choosing. You will have to be the judge if homework is taking too much time; can you afford not to finish that night, and still understand what is happening in class the next day. The remaining assignment should still be finished at a later date. I don’t expect this to be a normal occurrence; it will not be good for your academic success.

**Extra Help Schedule:** Tuesday after school, please let me know you are coming in advance. It will be on a first come first serve bases. If I am not in 104 **wait**, I should be there shortly. It is much better to see me as soon as questions arise instead of waiting to see if you understand it after a couple of days.

# **Grades**

Daily **homework** is your responsibility to show me at the start of every class. All problems need to be attempted and inputted to receive Mastery credit (6/6). You cannot make up missing homework at the end of the quarter. If you were absent excused you have three days to show me the missed homework you are responsible for finding out what this is, not me. If not shown to me you will not receive credit for the assignment. Do not depend on me to remember to check your late work, whether I ask or not it is still due. This is considered a formative assessment, so it will only be worth 10% of your quarter grade.

**Quizzes** will be given a couple times during each chapter. They will be made up with short answer questions or multiple choice questions. Some mathematical problems will also be done. For each quiz you will be given a copy of the equations sheet. I copy for yourself can be found on schoology. They are given upon entering the classroom, we don’t discuss anything before taking the quiz. Expect to take the quiz you missed due to absence, the morning or afternoon of the day you get back. If you skip the time set up for retake without good reason and a note, an NTI(zero) will be assigned. Standards based grading will be employed. You should see me to schedule make ups with two days of being out. This is consider a formative assessment, so it will only be worth 10% of your quarter grade.

* Using units/scientific notation/significant figures/conversion correctly on a quiz will be its own separate grade column in X2. This column will change with each quiz taken.

**Labs** will be done with different frequency depending on the chapter we are in. They will be shared into your google drive. These will be submitted electronically, there is nothing for you to print off, all I do is change your access priviledges. For each lab there will be analysis questions that come with it, that need to be answered in complete and thoughtful sentences(rubric). There is a rubric at the end of each lab, and attached to each lab using goobric for students; a google extension you might find helpful for peer/self evaluation. Labs are group documents, so in the theory that many hands make light work, a due date will be given as either the next day class meets or at most one extra day. If you miss a lab activity you will need to find time after school to come and complete it. I would advise bringing a friend to help in the data gathering process. You have three days after the lab has been completed to get your data collected. A lab is due the day and period that class meets, with no exception. If you are absent, the lab is still due. Since I am the owner of the document the lab is done in your access will be switched to comment only at the beginning of the period the lab is due. These are also considered a formative assessment, so it is worth 25% of your quarter grade.

**Test**s will be given with at least two days notice. These will be approximately 45-60 minutes in length. They are to be completed in pencil, to receive any credit. For each test you will be given an equation sheet. This will unitilize standards based grading, have you answered the questions correctly for a given standard/objective. The standards/objectives for each test will be posted in advance. Each standard/objective will be its own separate test grade based on the rubric scale. The test will have concept questions and numerical calculation problems. Please see me with in 2 days after being out to schedule make ups. These will be your summative assessment so it will be worth 55% of your quarter grade.

* Using units/scientific notation/significant figures/conversion correctly on a quiz will be its own separate grade column in X2. This column will change with each test taken.

**Test Re-Takes**

* At my discretion!
* Only allowed twice per quarter.
* You must be up to date on all your work, to demonstrate the proper amount of work done in preparation for the first test.
* ReTake request form must be submitted within 48 hours of grade being posted in X2.
* A plan must be laid out that does not repeat what should have been done the first time. Such as read text book and do extra problems from text book, review notes, and redo schoology problem sets. Your plan must have three parts to help prepare for the reTake.
* On day of retake come with evidence of all the additional work you have done to relearn the material. This will be submitted to me. No evidnece provided, no reTake will be given. You can set up another time to come and present evidence then.
* You are still responsible for current course work.
* Only need to reTake weak standards, not whole test.
* These are not done the last week of a quarter.

If you have any questions or concerns over your progress or your child’s progress, please e-mail me at hubbardm@chelmsford.k12.ma.us it is the easiest way to get in touch with me. I can either e-mail you back or you can leave your number and times when I can reach you.

Please sign and return to me. A copy is available online for reference at my website and schoology.

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I have read and understand the course expectations for Ms Hubbard’s class.

Signature of Student

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_

Signature of Parent

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