

Physics 11 – Course Outline 2018-19

Mr. Flink

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<u>Topic</u>	<u>Approximate Time</u>
Unit 1: Skills, Methods and the Nature of Physics	1 week
• Metric conversions, Scientific Notation, Sig Figs and Graphing	
Unit 2: Kinematics in 1-D	4 weeks
• Vectors, Displacement, Velocity, Acceleration	
Unit 3: Newton's Laws	2 weeks
• Newton's 1 st , 2 nd and 3 rd Laws	
Unit 4: Forces	3 weeks
• Forces, Gravity, Friction, Elastic	
Unit 5: Energy	3 weeks
• Work, Power, Potential and Kinetic Energy, Law of Conservation	
Unit 6: Electric Circuits	3 weeks
• Series, parallel and combination connections, Ohm's and Kirchoff's Laws	
Unit 7: Waves & Sound	2 weeks
• Generation and propagation, properties and behaviours, sound & resonance	
Cumulative Final Exam	end of January

Assessment

Unit Tests	~60%
Quizzes	~10%
Lab Investigations	~20%
Assigned work	~10%
Term Marks 80%	Final Exam 20%

Work Habits

A work habit mark of G (fully meets expectations), S (working towards expectations) and N (not meeting expectations) will be assigned each reporting period. This grade will be used by post-secondary institution and the passport of Education. ***For every 5 late assignments, the work habit grade will drop one letter grade.***

Course Expectations

1. **BE ON TIME:** The first few minutes of class are very important. They set the tone for the entire lesson. Nothing is more disruptive than a stream of students drifting in late and interrupting the lesson. If you are late, enter the classroom **quickly** and **quietly** and take your seat. All "lates" are recorded. After your **second** unexcused late you will be spending some time with me to discuss your lateness.
2. **LEAVING THE CLASSROOM:** Students are expected to go to the washroom before class. However, emergencies may occur and for this students must first ask permission and sign out. One student is allowed outside at a time. Students will not be allowed to leave the classroom during the first and last 10 minutes of class. Students that need to leave the school for an appointment, etc. need parental permission (note or phone call) and must **sign out at the office.**
3. **MISSED CLASS:** Attending classes regularly will ensure you do not miss important concepts. One missed day in summer school is HUGE and difficult to recover from. Even if you are not feeling the greatest, you will learn more than if you are absent. If you know that you will be absent make sure that you inform me beforehand. If you do miss a class it is **YOUR RESPONSIBILITY** to get any notes or assignments that you missed. I suggest that you take the phone numbers of several people who live near you so that you may call and ask about the day's proceedings (see back of this sheet). These people should be counted on to collect any handouts for you. Following these suggestions will prevent you from falling too far behind.
4. **SAFETY:** is of paramount concern in the science lab. All students are required to achieve 80% or higher on a safety test and submit all completed safety paperwork (i.e. safety contract and contact lens letter) prior to doing any labs. Failure to behave in a safe manner or disobeying lab safety rules at anytime throughout the year will revoke the student's lab privileges. Make-up safety assignments and a change in attitude are usually required for a student to resume doing lab work.
5. **COMPLETING ASSIGNMENTS:** Assignments and homework checks count for an important portion of your grade and you are expected to complete every assignment whether you are here or not. Labs that are late will be accepted **1 class** past the due date, with 25% deduction for each day late. Past this time the lab can only be competed for ½ marks. Marks will be awarded for homework completion and will only be marked complete if the assignment is totally finished and uses complete sentences. Work must be written neatly and legibly.
If you struggle with your homework the minimum you can do for each assigned problem is:
1) **Draw a picture** 2) **Write out the known variables** 3) **Write down a relevant equation**
6. **BE A PURPOSEFUL LEARNER:** At all times be on task and participate in the lesson. Put your cell phone away- it is not relevant to your learning. Behave in a mature and cooperative way using every minute of class time effectively. Also, remember that it is your teacher who dismisses you **not** the announcements or the bell.
7. **MATERIALS:** The tools necessary for this course are two pens (one red and one blue or black), a pencil with eraser, 3 ring binder with ample supply of notepaper, a ruler, and a scientific calculator. A digital device (such as laptop or tablet) would be an asset.
8. **EXTRA HELP:** If you would like to see me for extra help, you can make arrangements with me and I will do my best to help you. I suggest you get a study partner from this class and work

together. The responsibility is YOURS to stay on track. Suggested support websites:
<http://hyperphysics.phy-astr.gsu.edu/hbase/hframe.html> ; <http://www.physicsclassroom.com/>

9. **TESTS:** make up a large part of your Physics mark. In order to prepare for these tests it is important that you attend class, complete all homework, write all quizzes, do all reviews and seek extra help when needed. Students in senior level classes should expect that there will be NO re-writes! *For students who maintain a G work habit (punctual assignments, no missing assignments, regular attendance, participation during class time), the lowest test score may be omitted at the end of the semester.* If a student misses a class when a test is given, regardless of the reason, it is at the teacher's discretion whether the student will be allowed to write at another time convenient for the teacher. If the absence is unexcused, the student will not make up the test. In the case of a test missed due to excused absence, the parent must phone the teacher directly to discuss the reason for the absence; a hand-written note or email will not be sufficient. Students are expected to write the test on the early Fridays or time of convenience to the teacher. Once the test has been handed back to the class, students will not be able to write the test. In the case of planned and or extended absence (e.g., vacation or wedding), students must communicate with the teacher as early in the semester as possible in order to arrange for alternate test dates. Keep in mind that teachers may choose not to offer alternate test dates.

10. **ACADEMIC DISHONESTY POLICY:** Academic dishonesty is an unfair and discouraging to the majority of students who pursue their studies honestly. Students engaging in any of the following behaviours will be considered cheating:

- Using any type of device/books or cheat sheets. Cell phones and devices will be handed in to the teacher before an assessment has taken place and bags/jackets will be put at the back of the classroom. Students will not have access to the washroom or the bags/cell phones until all students are done the test.
- Communicating with other students for any reason and in any manner during the exam.
- Exposing written papers to the view of other students. The plea of accident or forgetfulness shall not be received
- Continuing to write after the instruction to stop writing has been given.
- Taking any examination material from the examination room at any time without permission of the course teacher
- Plagiarism (presenting the work of another person as your own or allowing another person to present your work as their own).

Both cheating and plagiarism are dishonest, unethical and violate the value of learning and the integrity of our school community. As such, students caught cheating will be open to disciplinary action including a referral to the office as well as suspension for repeat offences. Students will not be given credit for any assessment written under these circumstances. In addition, students *may* or *may not* be offered a second chance to complete the assessment task in which cheating took place.

I have read and understand the above science department policies. Name: _____

Student signature: _____ Date: _____

Parent signature: _____ Parent Email: _____