

The study of physics is a scientific and mathematical study of the workings of the universe around us. In order to enroll in this class you must have passed Science 10, and Math 10. Students having taken apprenticeship and workplace Math 10 are welcome to attempt the course, but will find it **considerably** more difficult than those having taken pre-calculus Math 10.

Course Topics

- Kinematics - study of the behavior of moving objects.
- Projectiles and Vectors - study of the behavior of objects released with 2 dimensional motion.
- Dynamics - study of why objects move.
- Energy - study of the ability of objects to do work, includes work, power and efficiency.
- Wave Motion and Properties - study of the behavior of various waves, especially light waves and the electro-magnetic spectrum.
- Geometric Optics - study of light reflection and refraction.
- Nuclear Physics - study of the principles involved in nuclear reactions.
- Special Relativity - studying the effects of traveling at speeds $> 0.1 \times$ speed of light.

Course Evaluation

Course Standing:

A = 86 – 100%

B = 73 – 85%

C+ = 67 – 72%

C = 60 – 66%

C- = 50 – 59%

I/F = 0 – 49%

Overall Mark

Course mark - 80%

Final exam - 20%

Work Effort: G, S, N

A subjective evaluation made by your teacher based on attentiveness, punctuality, positive and enthusiastic attitude, **homework/lab completion** and effective use of classroom time.

Class Procedures

- All homework will be due within 1 minute of class commencing unless stated otherwise.
- Assignments/labs must be handed in at the beginning of class on the due date. Late assignments with a proper signed note*** will result in an "omit" be entered for the mark and work habits. Late assignments without a valid note will result in an "omit" being entered for the mark and an "N" being recorded for work behavior.

*** being excused at the office is NOT a substitute for a signed note explaining absences.

Classroom Rules and Behavior

1.) **Respect**

All rules in the classroom are based on the concept of **RESPECT** - respecting each other, the classroom equipment, the school or differing viewpoints. Therefore, before you do something, ask yourself if the action you are about to do takes into account the feelings and rights of others and whether the action is going to interfere with the learning of another person or your own learning. If it is going to have a negative effect on learning, then **DON'T DO IT!** For example,

- a) Being quiet while Mr. Wilkison or another student is speaking demonstrates respect for what they have to say.
- b) Putting your hand up to answer demonstrates respect for other students and yourself and self-control.
- c) Being quiet during work period demonstrates respect for other students' learning and allows you to concentrate and learn better
- d) Coming in quietly to class and getting books open and ready demonstrates maturity and a readiness to get on with your most important learning.
- e) Absolutely no cell phones or any music devices. These devices are distracting and not conducive to a learning atmosphere. Do not even bring them to class!

Fire drill - Students are to proceed to our assembly area and find me for attendance. Failure to do so will result in an F for that term, as essential safety procedures will have been violated.

Lockdown - In the event of this drill, students are to close the blinds and proceed quietly to the printer area.

2.) Attendance

Being in class on time and regularly is a must for success. The KSS attendance policy will be actively pursued to the letter. Any unexplained absences will result in N for work habit.

If you are late to class come in quickly and sit down quietly. **If an absence does occur, it is the responsibility of the student to get caught up. The best method to do this is to check Mr. Wilkison's website or have a partner from the class in which the student can receive notes and information on what is expected for next class.** If the partner is unreachable, the student may ask the teacher about missed assignments or handouts on the morning of their return. **Not, the next time the class occurs!** It is also the responsibility of the student to bring a signed note, by the guardian, to class explaining why the absence was a **legitimate absence*** upon their return.

- * A legitimate absence **does not** include reasons like I was babysitting late and slept in, I was busy with a soccer practice and couldn't finish, or I couldn't study/do my homework because we went away for the weekend.
- * A legitimate absence **does** include reasons of legitimate illness and bereavement.

3.) Equipment

You are responsible for bringing the following items to class every day.

- Loose-leaf binder with paper
- Your textbook
- Scientific calculator
- Pencil/eraser (for graphs and math problems)
- Ruler

4.) Homework

Homework will be marked by myself. This is composed of small daily assignments of questions related to the concepts being learned. Incompletion of homework is the number on indicator of potential failure, so please keep up in completing your assignments.

5.) Labs - 30% of term mark

Laboratory work is a crucial part of this course and is to be done in partners unless otherwise stated. Both students should be actively participating in all aspects of the lab (preparation, experiment, and clean up). It is expected that partners discuss and help each other in the lab. The lab presentation of data (lab write-up) should be **completed individually.**

6.) Exams - 70% of term mark

Missed exams will be written as soon as the student returns from a **legitimate absence**. Absences without a valid note will void all chances of a make-up exam.

For Students

Student Name - _____ Class - _____

I have read and understood this course outline for Physics 11. I will make every effort to do my best work in class and at home. I will ask for help when I need it.

Signed - _____ Date - _____

Parent/Guardian Signature - _____ Date - _____

Guardian e-mail - _____ Student e-mail - _____

----- Detach Here -----

For Parents

Please keep this form

- All marks for incoming work is recorded and posted on Jupiter Grades. Please check regularly to help monitor your son or daughter. The address for the website is

<http://>

- All handouts from class will be posted on Mr. Wilkison's website. Please check regularly to help monitor your son or daughter. The address for the website is

<http://calebwilkison.weebly.com>

Password - wilkison science

- Mr. Wilkison can be reached by e-mailing him using the following address. All e-mails will be answered within two school days.

Caleb.Wilkison@sd23.bc.ca