

# PHYSICS 11

## Course Outline

Ms. Dodge

Panorama Ridge Secondary

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Welcome to Physics 11. I would like to take this opportunity to personally welcome you to the Science Department at Panorama Ridge Secondary. **This course is a challenging course** and will require a level above last year in terms of maturity, focus, effort, and preparation. Don't take it lightly. You won't 'cruise' through this course even if you have in previous courses. Be diligent about completion of daily assignments and checking your answers and multi-day test preparation. You can do well. It takes a large amount of grit and attention to detail. You must take responsibility for your own performance. My goal is that you will look back on your experience here as a very positive one.

While not a requirement, a math score from Foundations and Pre-Calculus 10 of a B is generally required for success in this course. Proficiency in basic mathematics, algebra and trig will be expected of students and only briefly reviewed in this course. A tutor is highly recommended if you are coming into this course with gaps in understanding of any of these concepts. Once you have fallen behind it is difficult to catch up again.

The following course outline explains how the class will be structured, my expectations of you, what you can expect from me, what will be covered in this course and the marking scheme that you will be graded on this term. Please read this with your parent(s)/guardian and if you have any questions, please ask.

### **Classroom Expectations:**

It is my intention to make the learning of the Physics 11 curriculum as interesting and enjoyable as possible. However, in order to accomplish this, it is essential that class time not be wasted on dealing with inappropriate behaviour that interferes with student learning and enjoyment.

**OWN YOUR LEARNING:** You have made the very excellent decision to take on some challenging coursework. Respect this decision by putting in the time and effort to get the very most out of each class.

**BE A PURPOSEFUL LEARNER:** At all times be on task and participate in the lesson. Behave in a mature and cooperative way using every minute of class time effectively.

### **BRING ALL MATERIAL TO CLASS**

The following materials are required every class:

- Pencils, ruler, erasers and your textbook
- 2 inch binder (at least!!)
- Lots of lined paper (graph paper is optional, but handy)
- Scientific calculator (a **MUST HAVE!!!**) No graphing calculators on tests!!

## CELL PHONES

I appreciate that cell phones have become part of our daily routines, however they have become a distraction to learning in the classroom. As such cell phones are to be put away in backpacks or lockers during class time. I am aware that a few students may have medical/personal exemptions to this routine. Please have your parents send me an email outlining your requirements for a phone during class time and we will manage the situation individually. If cell phones are not kept away during class time their will be escalating consequences that may include the phone being taken away and/or being sent to administration. I want you to do your very best here, and I hope you want that too.



## COMPLETING ASSIGNMENTS:

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**
- 4) **try the problem**
- 5) **If you still need help, ask!**

Useful websites are 'The organic chem tutor' and 'the physics classroom'

## QUIZZES/TESTS

Quizzes will occur often. They may even occur without notice. This means it is very important to complete all of your homework daily. Lots of notice will occur before a unit test. There will usually be a lab for each section covered.

**SHOW UP ON TIME:** The first few minutes of class are very important. It sets the tone for the entire lesson. Quizzes will be given often and generally occur at this time. 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. You are responsible for any missed work.

**DO NOT MISS CLASSES:** Attending classes regularly will ensure you do not miss important concepts. If you know that you will be absent make sure that you inform me beforehand. If your absence is more than 3 days you are expected to complete an extended absence form from the office.

It is **YOUR RESPONSIBILITY** to get any notes and assignments that you miss. **YOU ARE EXPECTED TO COMPLETE EVERY QUIZ/TEST/LAB/ASSIGNMENT WHETHER YOU ARE HERE OR NOT, IMMEDIATELY UPON YOUR RETURN!**

## LATE QUIZZES, TESTS, ASSIGNMENTS

Labs, tests and quizzes are to be completed on prescribed days. If they are missed, **ONE WEEK**, will be given to complete the work and they will be put away for the semester.

Assignments and Labs will not be accepted after it has been marked and handed back to students. \*\*\*\* Exceptions will be given for extenuating circumstances only \*\*\* . An alternative assignment will be given and need to be completed during lunch, after/before school.

**Copied Work or Tests** (in part or completely) **will result in a mark of 0 for both individuals.**

**EXTRA HELP:** If you would like to see me for extra help, I will make the time to see you. However, you are a senior student, if you are struggling the responsibility is YOURS to get on track. I will need to see your attempt at the work help with struggles, so be aware I will ask!!

This semester my schedule is as follows:

- Block A -- Pre-Calc 11                      Room C006
- Block B – Physics 11                      Room C006
- Block C – Pre-Calc 11                      Room C006
- Block D – Physics 11                      Room C006

**CHEATING:** : Students are expected to complete their own work on an individual basis unless otherwise stated by the teacher(s). All electronic devices must be out of reach of students and put away. Any student who plagiarizes the work of another or uses electronic devices, either in test situations or on major assignments will face disciplinary action. This may range from receiving a zero on an assignment or test to disciplinary action by the administration.

## Evaluation

The term grade for Chemistry 11 will be calculated as follows:

Tests.....	55%
Quizzes.....	10%
Labs / Projects Assignments .....	35%

Term mark will be worth 80% of your final grade. There will be a final exam worth **20%**.

Term marks will be based on the following guidelines:

**A:** 86% - 100%   **B:** 73% - 85%   **C+:** 67% - 72%   **C:** 60% - 66%   **I/C-:** 50% - 59%   **F:** 0 – 49%

## **A message from Ms. Dodge:**

The Physics 11 course is a challenging one. It is imperative that students keep up with their homework and assignments. In order to be successful in this course, a student needs to be focus and diligent about their homework and study habits. I'm always willing to help so *please* do not hesitate to ask.

It is my belief that science as a discipline should be examined in a hands-on learning environment in which students are actively involved in their own learning as much as possible. Therefore, I will attempt to utilize a number of different teaching strategies that are of interest to the students, and make learning the subject matter as much FUN as possible. I welcome feedback on my approach to teaching science from students and parents at all times!!!

### Contact Info:

If you need to contact me outside of school hours please feel free to e-mail me at [dodge\\_a@surreyschools.ca](mailto:dodge_a@surreyschools.ca)

**\*\*Please keep this outline in the front of your notebook for future reference\*\***

### Topics Covered:

Unit 1: Skills, methods and Nature of Physics, Metric Conversions, Scientific Notation, Sig Figs and Graphing	2 Weeks
Unit 2: Kinematics in 1-D Vectors, Displacement, Velocity, Acceleration	3 Weeks
Unit 3: Newtons Laws Newtons 1 <sup>st</sup> , 2 <sup>nd</sup> , and 3 <sup>rd</sup> Law	1 Weeks
Unit 4: Kinematics in 2-D Independence of perpendicular variables, projectiles	2 Weeks
Unit 5: Forces Forces, Gravity, Friction, Elastic	3 weeks
Unit 6: Work and Energy Work, Power, Potential and Kinetic Energy, Law of Conservation	3 Weeks
Unit 7: Electricity Ohm's Law, DC circuits	2 weeks
Unit 8: Waves and Optics Light, Sound, mechanical waves and Optics	1 weeks

## Common Questions Students Have

Q: What can I do for extra marks?

A: There are no “extra marks” that one can earn. Sometimes there is the odd bonus question on a test, however, the only way to obtain a mark in this course is to do the daily work, make the best use of class time, and be prepared for tests **the first time**. You decided your grade, not me. I am just a mirror that reflects your work back to you.

Q: Can I do a redo (on the last test)?

A: We are preparing you for college and university where no one entertains the idea of a “redo”. Besides, to allow for redo’s on tests multiplies the workload for the teacher. Sometimes there may be a special circumstance (such as a funeral, etc.), however this is rare.

Q: Can I have an extra day to prepare for the test because I was out working, at a football game, I had to go out with my family for dinner last night.....?

A: There will usually be ample notice for most tests. Because of this everyone knows when the test is coming up and should do whatever it takes to plan and prepare as necessary. Besides, it is not fair to the people who did prepare if you are given the extra time while not putting in the same effort.

Q: Can I get the work we will be doing for the next four weeks? I’m going on a holiday.

A: If you know you will be away for 3 or more days, a form from the office needs to be filled out for extended absences. Please note: Although I will do my best to fill you in on what we will be doing, teachers are not required to provide extensive work for students during extended absences.

Q: Ms. Dodge, what is your policy on handing in late things?

A: For assignments and labs, I will give a deadline when the work is supposed to be finished (because we will be moving on to the next topic). After this, there will be a grace period of about 1 week where I will accept the work. Then I will mark all collected work. After this, any late work will not be accepted. Alternate assignment may be assigned that needs to be completed in class at lunch or before/after school.

Q: What is your policy on homework?

A: Homework will be assigned as practice that will benefit you. However, at the grade 11 level I will not be checking homework. Whether you do or don’t do the practice questions will not be recorded. It will show on your quiz if you did your homework or not.

Q: What are the consequences for having my phone out?

A: A warning will be issued to change your behaviour and put your phone away. If phones continue to be out parents will be contacted and phone will be taken away. If class cell phones rules are still not adhered to then the phone will be given to administration to manage.

Q: If I miss the test when will I have to write the test.

A: You will be expected to write the test on your first day back.