

Physics 12
Jeffrey Horncastle

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Extra Help: If you need help please contact me and we can set up a time to meet. I am available at lunch and after school. There will also a physics teacher in the math help center on Monday and Wednesday after school till 4pm in room 201. I will be in there every Monday.

Description

This course continues to develop on the concepts and ideas taught in Physics 11. It builds on abilities to solve problems through manipulating equations. A main theme in this course is working in multiple dimensions by using vector physics. Students who have interest in physics, engineering, aeronautics, astronomy, video game engine design etc. will find this course to be pivotal in their future career goals. The course will be divided into two main areas. Classical Physics and Modern Physics.

Main Themes

Classical Mechanics

Kinematics, Dynamics, Energy Work, Momentum

Modern Physics

Electrostatics, Electromagnetism, Astrophysics, Quantum / Particle Physics

Evaluation

In this course you will not regularly receive percentage grades. Instead you will be evaluated based on a competency model. Each Unit will be broken up into several competencies, these will include practical, experimental, and theoretical competencies.

Once you have demonstrated your understanding of a competency, you will get it checked off. Your final mark will be based on how many competencies you have gotten checked off in total. You will have unit tests, as well as a non-punitive midterm and final. You must write the final in order to pass the class.

Expectations

It is expected that students show up to class on time, ready to work, and follow along with the lesson. This means bringing a pencil, eraser, calculator and paper. Homework and assignments should be attempted and students are expected to seek help and put in extra study time if needed. Phones should not be used during lessons or presentations, but will be permitted so long as they do not interfere with your learning. Food and Drink are allowed so long as no messes are made.

Students missing class are expected to make up any missed notes, assignments, tests or activities on their own time.

Cheating

Cheating or plagiarising work will not be accepted for marks. If a student shows chronic cheating in the class they may be removed from the class permanently.

Website

<http://parkland.sd63.bc.ca/enrol/index.php?id=311>

All notes and assigned work will be posted to the website below. To access these files logon as guest using the password: **1ss@c.**