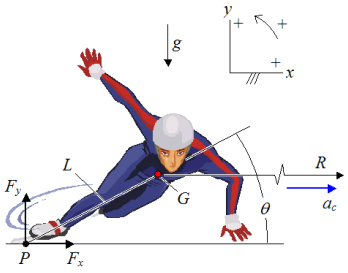
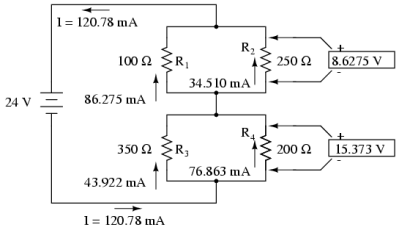
2016



PHYSICS 12

Mr. Walzl



This course is intended to give each student the tools necessary to be complete a university entry level physics course. All of the topics we will discuss have been selected by the BC Ministry of Education and reflect the areas usually covered in a university level introductory Physics course.

Textbook

No textbook will be assigned to this course. You are welcome to sign-out a physics 12 textbook from library. You are encouraged to supplement classroom learning would be on online tutorial sites like **Khan Academy** or **AplusPhysics.com**. Class notes, problem sets, handouts, worksheets, and lab exercised will be the primary learning vehicles used in class.

Materials

Students are expected to bring the following items to each class: **3-ring binder** containing class notes, extra lined paper, pens, pencils, eraser, ruler, and a **calculator**.

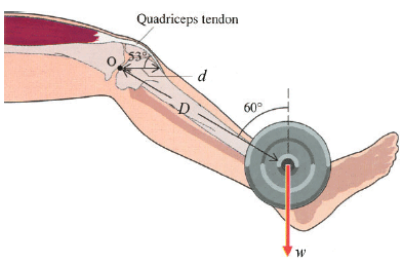
Evaluation

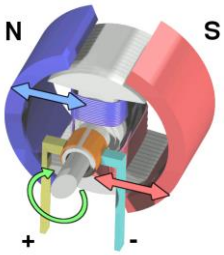
You will be evaluated through a series of assignments, labs, quizzes, tests and an exam that will be weighted in the following way:

Assignments/Labs	20%
Tests/Quizzes	50%
Exam	30%

Late assignments

You must complete all assignments accurately and **on time** if you are to be successful in Physics 12. Please speak to me if you need help or have special concerns about getting an assignment or lab in on time. **Please make sure you hand in assignments on time.**





Absences

It is important that you attend all classes. Physics 12 is a rigorous, academic course. If you know you are going to be away from class please speak to me to discuss material you will be missing. **It is the student's responsibility to catch up on any material they miss during an absence.**

Getting Help

If you need some extra help, please don't hesitate to ask. I will make myself available outside class time if you need any further explanation. *Regular tutorials are held on **Wednesdays** afterschool until 4:00pm*. You or your guardian can contact me at 604-905-2581 or jwalzl@sd48.bc.ca

The Topics in Physics 12

1. Vectors
2. Vector Kinematics in Two Dimensions
3. Equilibrium (Statics)
4. Dynamics
    - Newton's 3 Laws of motion
    - Friction
5. Vector Dynamics (2 Dimensional)
6. Work, Energy + Power
7. Momentum (1 Dimensional)
8. Momentum (2 Dimensional)
9. Circular Motion
10. Gravitation
11. Electrostatics (Electric Field Force)
12. Electrostatics (Electrical Potential Energy)
13. Electric Circuits
14. Electromagnetism

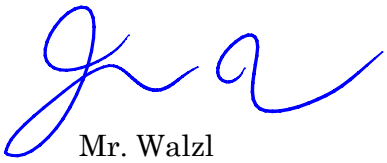
Students please have your parent/guardian read over this course outline. Discuss the outline and sign the form afterwards. Keep this outline in your Physics 12 binder. **Due by Friday Sept. 9th 2016.**

REMOVE SIGNED FORM TO HAND IN.

I have read the course outline for *Physics 12*.	
Student signature: **Student Name:**	**Date:**
I understand my son/daughter is registered in Physics 12 this semester and support this choice as a part of their current educational plan.	
Parent signature: **Parent Name(s):**	**Parent email:**

Feel free to contact me anytime with questions or concerns.
School Phone: 604-905-2581 or jwalzl@sd48.bc.ca

Thank you,



Mr. Walzl