Physics 30

Course Outline

Ms. Warnock

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Welcome to Physics 30! This course will begin with an introduction to modern physics and the scientists who made it possible. We then move on to study the forces of motion we see all around us every day. Conservation laws that are directly related to the study of motion come next followed by the study of gravitational, magnetic and electric fields. Through the semester we will have the opportunity to work on a final project that analyzes the physics present in an activity or movement (human or mechanical) of your choice!

**Course Breakdown**

We will be covering the following topics as per the Saskatchewan curricular outcomes:

1. Motion of Objects

2. Force and Newton’s Laws of Motion

3. Circular Motion

4. Energy and Momentum

5. Electric and Magnetic Fields

6. Modern Physics

7. Student Directed Study

**Materials needed:** Binder, lined paper, ruler, pencil, and a Scientific calculator

**Evaluation**s:

**Practice Questions** are required to be completed every day. These will not be taken in for formal marks but answer keys will be available. Students need to complete these practice questions before they move on to the Hand in Assignments.

**Labs/Assignments** will be given throughout each unit with class time given to complete

**Unit Tests** will be given at the end of each Unit. Dates will be given well in advance with class time given for review.

**Final Project**. This will be an inquiry project that will utilize all the skills you learn throughout the course.

**Departmental Exam** will be comprehensive and we will take multiple days to review material

**Marks Distribution**

* Labs/Assignments – 40%
* Unit Tests – 40%
* Final Project (SDS) – 20%

Since there is a departmental exam in this course your mark will be calculated by the Department of Education

* Course Work Total – 60% of final grade
* Departmental Exam – 40%

**\*\***If for some reason you are unable to complete course work on time please come and discuss it with me ahead of time.

**Be Aware of Deadlines! Keep a day planner or something similar. Late work will result in a trip to Pink Paradise and your parents will be informed.**

**Attendance**

Success in school is directly related to your attendance. If you miss an assignment or project work day, you will be required to complete the work as soon as possible either before school, at noon, or after school. You will be given a day of grace but you will be responsible to catch up on your own time.

**Cell Phones**

Cell phones can be a very helpful tool and at certain times they will be allowed to be used during class. Any use of Facebook, Instagram, Snapchat, other social media sites or games will not be tolerated during class time. Any offense in breaking the above rules will result in the creation of a “Parole Card”. **First offense:** Cell phone is taken away until the end of class. **Second offense:** Cell phone is taken away until the end of the day. **Third offense:** Cell phone is sent to the office. If I see your phone before instruction time is finished it will be considered an offense. Keep it in your pocket or kit!

**Help Times**

This is a tough course, therefore, please do not hesitate to ask for extra help! I am often here after school but can arrange to meet with you other times as well.