

Course Description:

Welcome to Physics 11 with Mr. Romswinckel. Our goal in this course is to provide you with a good understanding of Classical Physics to increase your critical thinking and problem-solving skills and to meet the B.C. required curricular competencies for this course.

Course Content:

<i>Math Review:</i>	Brief review of math and SI units needed to be successful in this course	
<i>Kinematics:</i>	<u>The Math Description of Motion</u> -Displacement, Velocity and Acceleration	Chapter 2-4
<i>Dynamics:</i>	<u>The Study of Why Things Move</u> -Forces (Free-body Diagrams, Friction & Tension) -Newton's Laws	Chapter 5,6,7
<i>Energy:</i>	<u>Mechanical Energy</u> -Momentum (Law of Conservation of Momentum) -Work and Forms of Energy -Law of Conservation of Energy -Power	Chapter 9-12
<i>Electricity:</i>	<u>Electrical Circuits</u> -Ohm's law and Kirchhoff's laws applied to DC circuit	Chapter 22-23
<i>Waves</i>	<u>Properties of Waves & Sound</u> -wave & sound behavior	Chapter 14-18

Expected Curricular Competencies To Be Met:

-Questioning & Predicting-	Observations, Formulating Hypotheses
-Planning and Conducting-	Design & Plan Experimental Investigation
-Process/Analyze Data-	Interpret Patterns, Draw Conclusions, Cause & Effect
-Evaluating-	Identify Experimental Errors & Question Results
-Application/Innovation-	Apply Gained Knowledge Toward Real Issues
-Communicating-	Formulating Valid Arguments Using Scientific Language

Marks Distribution:

Exams 1, 2 & 3 33.33% Each Exam

Textbook: Merrill, Physics (1992)

Marks are not awarded for "Intentions." Marks are given for actual and verifiable work on exams.

Proposed Schedule (dates and times may change based on course needs)

July 2nd to 5th -Class intro, Math Review, Units, Linear Unit Equations, Velocity & Acceleration

July 10th to 14th - Forces in 2D & 3D, Friction, Tension, Projectiles

July 12th Exam 1 12 Questions covering Chapter 3 to 7

July 12th to July 19th - Momentum, Work, Conservation of Energy & Power, and Heat

July 22nd to July 26th - Ohm's Law, Kirchoff's Law, DC Series and Parallel Circuits

July 26th Exam 2 14 Questions covering Chapters 9-12, 22 & 23

July 26th to Aug 1st - Properties of Waves, Sound Behavior, Reflection and Refraction

August 1st Exam 3 10 Questions covering Chapters 14, 15, 17 & 18

August 2nd Grade Calculations and Uploading

Attendance Policy

*Summer learning classes are conducted at an accelerated rate. B.C. Ministry required material is taught 3 times faster than in the regular school year.

*It is NOT TRUE that "*there is less material taught in summer school classes*"

*Just 1 or 2 absences can make it difficult to "catch-up" in this class.

*It is your responsibility to find out what notes, handouts or assignments you have missed if you are absent.

*This is a Grade 11 class so it is time for you to take control of your education.

Missed Exam Policy

*****Word of advice.....don't miss any exams*****

*If you miss any of the 3 exams, the only day to make-up the exam is immediately right after Exam #3 on August 1st.

*Please note that your make up exam will be made up of exam questions that you have never seen before because they may not be from the textbook like the regularly scheduled exams.

*You only have the class period to complete Exam #3 and any make up exams. There will be no extra time awarded to make up exams, just the class period on August 1st.

Cell Phone Policy

During lecture classes, you can text, message, watch YouTube videos all you want. As long as you don't bother anyone in class with your online content.

During Exams, you can't have a cellphone or smart watch within 10 feet of you. You must put your phone in your bag and take off your smart watch and put your bag with the others.

Caught cheating on exam; you get a zero till you re-take the exam on August 1st after Exam #3