

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 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 -Momentum (Law of Conservation of Momentum)	Chapter 5,6,7,9
<i>Energy:</i>	<u>Mechanical Energy</u> -Work and Forms of Energy -Law of Conservation of Energy -Power & Efficiency -Thermal Energy	Chapter 10-12
<i>Electricity:</i>	<u>Electrical Circuits</u> -Ohm’s law and Kirchlhoff’s laws applied to DC circuit	Chapter 22-23
<i>Waves</i>	<u>Properties of Waves & Sound</u> -wave & sound behavior	Chapter 14, 15

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:

Problem Solving Assessments*	80%
Cumulative Assessment	20%

Textbook: Merrill, Physics (1992)

Grading Scale Used: (lowest to highest)

“EM” = Emerging “D” = Developing

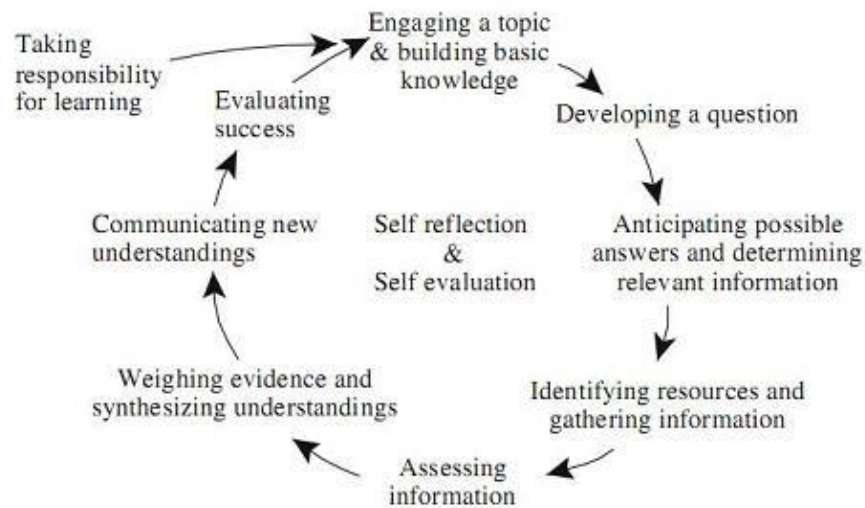
“P” = Proficient “EX” = Extending Learning

*Assessments can take many forms

Marks are not awarded for “Intentions.” Marks are given for actual and verifiable results.

This is an Inquiry Based Learning Course

Inquiry Based Learning (IBL) starts with you, the student, taking responsibility for what you learn starting with a question, gathering and analyzing resources and then communicating newly formulated arguments. Below is a diagrammatic outline of the IBL process.



Attendance Policy

*The only absences that are recognized will be "Excused Absences" as per MyEdBC. Do not bring in a note. If your parents/guardians can write a note they can also call into the office.

*It is your responsibility to find out what notes, handouts or assignments you have missed. This is a Grade 11 class so it is time for you to take control of your learning

*If you have an excessive amount of absences in this class it can be difficult to "catch-up"

*Understand that some Inquiry Based Physics Activities cannot be "made-up" (**ie:Plan Ahead**)

*If you are absent for a quiz you need to make sure your parents/guardians call the office to "excuse" your absence. If this is done the very next quiz mark will replace the No-Mark. This can only be used two times in the semester.

* If you are absent for an exam you will be offered the opportunity for a make-up exam if I can talk with a parent or guardian about your absence. Only one exam can be "made-up"

* The only day for make-up exams is Wednesday January 23rd, 2019 at 12:00pm in this room. This is the only day and time a make-up exam is offered and only one exam can be made up. (There is no make-up for the Final Exam)

Important Dates

October 12th Interim Marks Distributed

November 13th Report Card Marks Due

October 16th Parent/Teacher Interviews

January 23rd Final Exam @ 12:00pm