

### 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 &amp; Sound</u> -wave & sound behavior	Chapter 14, 15

### Expected Curricular Competencies To Be Met:

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

### Marks Distribution:

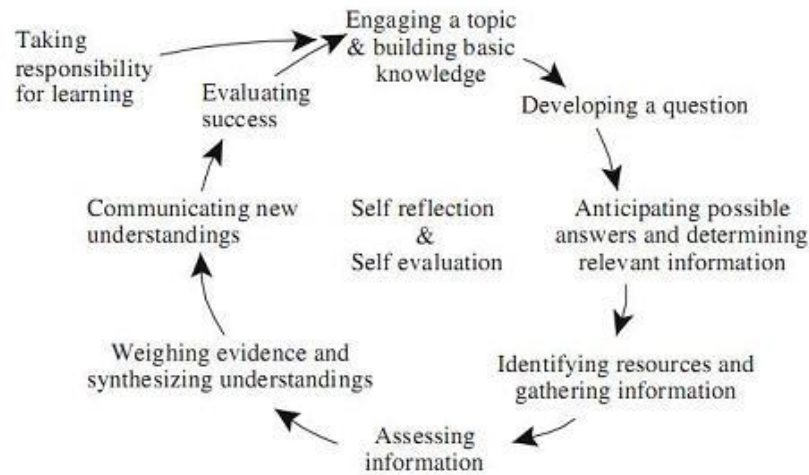
Exams	70%
Weekly Quizzes	0%
Lab Analysis Assignments	20%
Final Exam	10%

**Textbook:** Merrill, Physics (1992)

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, it will be difficult to "catch-up" in this class. Your deadline to drop this class is February 17th

\*Understand that some Lab Analysis Assignments cannot be "made-up" (**ie:Plan Ahead**)

\* If you are absent for an exam you will be offered the opportunity for a make-up exam on January 30<sup>th</sup> 2024 at 9am.

\* The only time for make-up exams are on **January 30<sup>th</sup> at 9:00am (Don't be late!!)**

Note that you have been told of this date and time 4 months in advance of other teachers scheduling their "course completion" sessions.

## Important Dates

October 19<sup>th</sup> Interim Marks Issued

October 26<sup>th</sup> Parent Teacher Interviews

**January 29th 2024 Final Exam**

November 20<sup>th</sup> Mid-Term Report Cards Available

Winter Break Dec 23rd to Jan 7th

January 30<sup>th</sup> 9:00am Make-up exam day