

### Course Description:

Welcome to Science 9 with Mr. Romswinckel. Our goal in this course is to provide you with a good understanding of some of the basic concepts of science to increase your critical thinking and problem-solving skills and to meet the required curricular competencies for this course.

### Course Content:

*Scientific Method:* Concepts within, and application of, the *Scientific Method*

*Writing in Science:* Learning how to write persuasively using gathered scientific evidence

*Atoms:* Electron Arrangement In Atoms Alters Their Chemical Nature

- Understanding the arrangement of elements in the Periodic Table
- Electron arrangement determines compounds formed by elements

*Cells:* Cells Are Derived From Cells

- Asexual Reproduction- mitosis & other forms
- Sexual Reproduction- meiosis & human sexual reproduction

*Electricity:* Electrical Circuits

- Electron flow in an electrical circuit
- Voltage, Resistance and Current in a circuit

*Energy:* Energy Cycles in the Biosphere, Geosphere, Hydrosphere & Atmosphere

- Effects of Solar Radiation
- Movement of matter within the biotic and abiotic ecosystem components
- Complex systems and their sustainability

### 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

### ASSESSMENT AND EVALUATION

Assessment is the systematic gathering of information about **what students know, are able to do, and are working towards**. Assessment methods may include quizzes, student self-assessment of core competencies, performance observations, and conferencing.

Evaluation strategies may include

- Assignments, activities
- Tests, quizzes
- Projects, lab activities
- Presentations, mind maps

### Grading Scale Used: (lowest to highest)

“EM” = Emerging

“D” = Developing

“P” = Proficient

“EX” = Extending Learning

**Textbook:** BC Science 9 “Connections” (2016)

### **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**

Make sure your parents/guardians call into the office to “**Excuse the Absence**” 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 when you come back from an absence.

\*If you have an excessive number of absences in this class it will be difficult to “catch-up”

\*Understand that Some Inquiry Based Physics Activities cannot be “made-up” (ie:Plan Ahead)

\*Missed quiz assessment will be replaced by the grade you earn on the very next quiz.

\* 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 day for make-up exams is **Tuesday, January 30th, 2024 at 9:00am** 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 19<sup>th</sup> Interim Marks Issued  
Winter Break Dec 23rd to Jan 7th  
**January 29th 2024 Final Exam**

November 20<sup>th</sup> Mid-Term Report Cards Available  
January 8th School is back in session  
January 30<sup>th</sup> 9:00am Make-up exam day