

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.

Cell Phone Policy

Due to the new ministry guidelines on a "bell to bell" ban on cell phone usage. Students are no longer able to use or have cellphones, headphones or earbuds out in this class. It doesn't matter if you are using them or not, I should never see them. For the first offense you will serve 15 minutes of detention at 2:45 pm that day. If you don't show up, a referral will be written to your VP and the punishment is much worse. For the 2nd offense you will serve a 30 minute detention at 2:45 pm that day. Subsequent violations will include calling parents or guardians for a meeting

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 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 27th 2025 in Room C223. See below for details.

* The only day for make-up exams is **January 27th, 2025 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. You must be finished by 11:00am with your make-up exam **There's no make-up for the Last Exam**

Important Dates

October 18th Interim Marks Issued

November 21st Parent/Teacher Interviews

January 23rd 2024 Last Exam

November 19th Mid-Term Report Cards Available

Winter Break Dec 21st to Jan 5th

January 27th Mid-Term Make-up Exam