Science 20F Course Outline

Science 20F takes an up-close look at the processes that govern our planet. Through our exploration of these processes, students will be encouraged to develop a sense of curiosity about scientific and technological endeavors, students will be prepared to critically address science related societal, economic, ethical, and environmental issues, and students will be provided a proficiency in science that creates opportunities for them to pursue higher levels of study.

**Course Overview**

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| **Unit 1: Chemistry in Action** | **Unit 2: In Motion** |
| * Atomic Structure and Reactivity
* Ionic and Covalent Bonding
* Element classifications
* Naming & Writing Chemical Formula
* Conservation of Mass
* Balancing Equations
* Acids & Bases
* Types of Reactions
 | * Scalar vs. Vector
* Displacement
* Velocity
* Acceleration
* Newton’s 3 Laws of Motion
* Momentum & Impulse
* Friction
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| **Unit 3: Dynamics of Ecosystems** | **Unit 4: Weather Dynamics** |
| * Introduction to Ecology
* Energy Flow
* Biogeochemical Cycles
* Bioaccumulation
* Population Growth and Dynamics
* Biodiversity
* Species Extinction
* Environmental Issues
 | * Atmosphere & Hydrosphere
* Weather & Energy
* Severe Weather Events
* Climate Change
* Human Impact
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**http://mrsaultclassroom.weebly.com/**

**Marks and Grades**

 Term 70%

 50% Tests

 30% Quizzes

 20% Assignments, & Labs

 Final Exam 30%

 Total: 100%

*Note: Several times in the semester you are also evaluated on the following non-achievement factors: Behavior, Responsible Decision Making, Engagement in Learning and Homework Completion.*

**Assignments, Labs, & Projects**

Are expected to be handed in on time at the start of class. Late or incomplete assignments, labs, or projects will directly affect your ability to find success in this course.

**Tests and Quizzes**

If you have an unexcused absence on a test or quiz, you will receive a mark of zero. If you know you will be absent, let me know well ahead of the date and we will arrange to have it written at another time. If you are caught cheating on a test, quiz, or exam, you will automatically receive a grade of zero and your parents and/or guardians will be notified via email or phone.

**Attendance**

Punctuality and regular attendance is a key component to success. When you are away, you miss important information that will help you develop a strong understanding of the learning outcomes covered. If a student misses a class, it is their responsibility to obtain notes or assignments that were missed. If you are ill, please have your parents and/or guardians notify Fort Richmond Collegiate. Unexcused absences will result in a phone call or email home.

**Extra Help**

If you are experiencing difficulty with the content, don’t hesitate to ask for help. I am more than happy to assist you with your studies. Let me know and we can make arrangements for further assistance in learning course material either before classes start, at lunch, or after school.

**Academic Achievement of Provincial Expectations Percentage Grade**

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| --- |
| Very good to excellent understanding and application of concepts and skills **80% to 100%** |
| Good understanding and application of concepts and skills **70% to 79%** |
| Basic understanding and application of concepts and skills **60% to 69%** |
| Limited understanding and application of concepts and skills; see teacher comments **50% to 59%** |
| Does not yet demonstrate the required understanding and application of concepts and skills;students with a final grade of less than 50% are not granted course credit; see teacher comments **Less than 50%** |

Let’s have a great semester!