

**École Secondaire LAURIER MACDONALD High School**

**7355 Viau, Saint-Leonard  H1S 3C2**

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**COURSE STANDARDS AND PROCEDURES**

**COURSE**:

Sec 4 Environmental Science 558-444

**CLASS RESOURCES:** Practical Guide, Study Guide and Observatory: The Environment

**COURSE DESCRIPTION**: Secondary 4 Science and Technology is a course for secondary 4 students who wish to continue in the science pathway. It is taken in action to the Ministry sec 4 scienc4e course This course is a prerequisite for Physics and Chemistry in secondary 5. The main focus of this course is the environment and technology. The course involves hands-on, inquiry-based learning to develop problem solving, to emphasize the application of science knowledge, and to teach communication using scientific and technological language.

In this course, students will also become familiar with standard laboratory practices and be encouraged to apply theoretical concepts in a practical way through lab work.

**MYP AIMS ADDRESSED BY THE COURSE**:

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| MYP Course Aims | MEES Course Objectives |
| Develops skills to design and perform investigations, evaluate evidence, and reach conclusions | Competency 1: Seeks answer or solutions to scientific or technological problems |
| Cultivate analytical inquiring and flexible minds that poses questions, solves problems, construct explanations, and judge arguments. | Competency 2: Makes the most of his/her knowledge of science and technology |
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**FUNDAMENTAL IB CONCEPTS**: - Holistic learning: While teaching climate change, we look at different facets such as historical and ethical issues. Mathematics is also incorporated in different topics such as concentration, power, energy efficiency, and much more.

- Communication: Students will conduct labs and complete hands-on activities and assignments in which they will have to use the appropriate scientific language.

**KEY INSTRUCTIONAL STRATEGIES/APPROACHES TO LEARNING**: - The ATLs that will be focused on is critical thinking. Students will analyze and evaluate issues and ideas by gathering and organizing relevant information to formulate an argument, and interpret data to draw reasonable conclusions and generalizations. This will be achieved by incorporating various inquiry-based activities throughout the year.

**IB MYP LEARNER PROFILE**:- Knowledgeable: During the inquiry-based activities, students will be asked to use their previous knowledge on different scientific concepts in order to solve a new problem.

- Inquirers: Students will develop their skills for inquiry.

**FORMATIVE & SUMMATIVE ASSESSMENT INCLUDING MYP ASSESSMENT:**

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| **Term 1**  |
| *Competencies targeted* | *Evaluation methods* | *Timeline* |
| Competency 1: Theory; 60%Competency 2: Practical; (Labs and Design cycle) 40% | May include, but not limited to:-Quizzes-Tests-Lab reports-Assignments-Homework | To finish by: November 3rd |
| *Communication to students and parents* | *Materials required* |
| Curriculum NightProgress reportReport cardVerbal/Written communication, telephone/email may be on an as needed basis | Pens/Pencils/Highlighters-Notebook/Loose leaf and binder-Scientific calculator-Pencil Crayons-Study Guide-Practical Guide-index cards |
| *IB MYP Criterion* | *Examples of assessment/feedback both formative and/or summative* |
| *• A: Knowing and understanding**• B: Inquiring and designing**• C: Processing and evaluating**• D: Reflecting on the impacts of science* |  |

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| **Term 2**  |
| *Competencies targeted* | *Evaluation methods* | *Timeline* |
| Competency 1: Theory; 60%Competency 2: Practical; (Labs and Design cycle) 40% | May include, but not limited to:-Quizzes-Tests-Lab reports-Assignments-Homeworklab examMid term | To finish by: February 3rd  |
| *Communication to students and parents* | *Materials required* |
| Report card in FebruaryVerbal/Written communication, telephone/e-mail may be on an as needed basis | Pens/Pencils/Highlighters-Notebook/Loose leaf and binder-Scientific calculator-Pencil Crayons-Study Guide-Practical Guide-index card |
| *IB MYP Criterion* | *Examples of assessment/feedback both formative and/or summative* |
| *• A: Knowing and understanding**• B: Inquiring and designing**• C: Processing and evaluating**• D: Reflecting on the impacts of science* | Snowman projectLab examTheory Mid year exam |

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| **Term 3**  |
| *Competencies targeted* | *Evaluation methods* | *Timeline* |
| Competency 1: Theory; 60%Competency 2: Practical; (Labs and Design cycle) 40% | May include, but not limited to:-Quizzes-Tests-Lab reports-Assignments-Homeworklab examMid term |  To finish by: June 22 |
| *Communication to students and parents* | *Materials required* |
| Report card in FebruaryVerbal/Written communication, telephone/e-mail may be on an as needed basis | Pens/Pencils/Highlighters-Notebook/Loose leaf and binder-Scientific calculator-Pencil Crayons-Study Guide-Practical Guide-Textbook |
| *IB MYP Criterion* | *Examples of assessment/feedback both formative and/or summative*  |
| *• A: Knowing and understanding**• B: Inquiring and designing**• C: Processing and evaluating**• D: Reflecting on the impacts of science* | Lab examJune theory exam |

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| **Additional Information/Specifications** |
| **☐** This course does not have a final exam. The final course grade comes entirely from the school course grade.**☐** This course has a final exam administered by the English Montreal School Board. The final course grade is determined by taking 70% of the school course grade and 30% of the school board exam.**☐** This course has a final exam administered by the *Ministère de l’Éducation et de l’Enseignement Supérieur* (MEES). The final course grade is determined by taking 50% of the school course grade and 50% of the MEES exam. Please note that the final course grade is subject to MEEs moderation. |