

École Secondaire LAURIER MACDONALD High School 7355 Viau, Saint-Leonard H1S 3C2 Tel: 514-374-6000 Fax: 514-374-7220



COURSE STANDARDS AND PROCEDURES

COURSE:

Secondary 5 General Science, 558-504

CLASS RESOURCES: Practical Guide

COURSE DESCRIPTION: This is a course for Secondary 5 students in the enriched stream who are not taking Chemistry and Physics. Students will study basic Biology and Ecology concepts. Some of the topics include the scientific method, population and communities, genetics, biological adaptations, classification and human impact on the environment.

Students will become familiar with standard laboratory practices and be encouraged to apply theoretical concepts in a practical way through lab work and hands-on activities. Students will understand that science is a process as well as a body of knowledge. Students will explore the design cycle (investigation, design, planning, creation and evaluation). One example is where students will have to create a pinball machine and evaluate their design.

MYP AIMS ADDRESSED BY THE COURSE:

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 inquiry and flexible minds that pose questions, solve problems, construct explanations, and judge arguments.	Competency 2: Makes the most of his/her knowledge of science and technology.

FUNDAMENTAL IB CONCEPTS: - Holistic learning: While teaching relationships between organisms, students will explore different facets, such as environmental influences, the ethics of protecting species, 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 of different scientific concepts in order to solve a new problem.

- Inquirers: Students will develop their skills for inquiry.

FORMATIVE & SUMMATIVE ASSESSMENT INCLUDING MYP ASSESSMENT:

FORMATIVE & SUMMATIVE ASSESSMENT INCLUDING MYP ASSESSMENT: Term 1		
Competencies targeted	Evaluation methods	Timeline
Competency 1: Theory; 60% Competency 2: Practical; (Labs and Design cycle) 40%	May include, but are not limited to: -Quizzes -Tests -Lab reports -Assignments -Homework	To finish by: November 6 th
Communication to students and parents	Materials required	
Curriculum Night Progress report Report card Verbal/Written communication, telephone/email may be on an as needed basis	Pens/Pencils/Highlighters -Notebook/Loose leaf and bind -Scientific calculator -Pencil Crayons -Practical Guide	der
IB MYP Criterion	Examples of assessment/feedback summative	k both formative and/or
 A: Knowing and understanding B: Inquiring and designing C: Processing and evaluating D: Reflecting on the impacts of science 	Relationship letter Endanger species	

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: February 6 th
Communication to students and parents	Materials required	
Report card in February Verbal/Written communication, telephone/e-mail may be on an as needed basis	Pens/Pencils/Highlighters -Notebook/Loose leaf and bindeScientific calculator -Pencil Crayons -Practical Guide	er
IB MYP Criterion	Examples of assessment/feedback summative	both formative and/or
 A: Knowing and understanding B: Inquiring and designing C: Processing and evaluating D: Reflecting on the impacts of science 	Endangered species Genetics assignments	

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 -Homework	To finish by: June 17 th
Communication to students and parents	Materials required	
Report card in February	Pens/Pencils/Highlighters -Notebook/Loose leaf and binde -Scientific calculator -Pencil Crayons	er

Verbal/Written communication, telephone/e-mail may be on an as needed basis	-Practical Guide
IB MYP Criterion	Examples of assessment/feedback both formative and/or summative
A: Knowing and understandingB: Inquiring and designing	Pinball machine
 C: Processing and evaluating D: Reflecting on the impacts of science	

Additional Information/Specifications		
Click here	to enter text.	
□ Thgrade.	nis course does not have a final exam. The final course grade comes entirely from the school course	
	nis course has a final exam administered by the English Montreal School Board. The final course grade ined by taking 70% of the school course grade and 30% of the school board exam.	
Supérieur	nis course has a final exam administered by the <i>Ministère de l'Éducation et de l'Enseignement</i> (MEES). The final course grade is determined by taking 50% of the school course grade and 50% of exam. Please note that the final course grade is subject to MEEs moderation.	