

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 3 Science and Technology, 555-306

CLASS RESOURCES: Practical Guide and study guide

COURSE DESCRIPTION:

This course is designed for students in Science and Technology in Secondary 3. The focus of this course is Human Biology and how the body interacts with the living world. The course involves hands-on, inquiry-based learning as well as practical discussion of real-world applications to develop problem-solving and to teach communication using scientific and technological language.

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 understand that science is a process as well as a body of knowledge. Students explore the design cycle (investigation, design, planning, creation and evaluation).

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 answers or solutions to scientific or technological problems.	
Cultivate analytical inquiring 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: Mathematics is incorporated in different topics such as concentration, density, dilution, and scale drawing.
- 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:

	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 6th	
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 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 	- Assignments - Nutrition lab		

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 -Homework	To finish by: February 6th		
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 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 	Tech Assignment Blood lab			

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 -Final lab exam -Final theory exam	To finish by: June 17		
Communication to students and parents	Materials required			
Report card in June Verbal/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			
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 	Technical designs Dilution and concentration labs			

***NOTE THAT THE WEIGHTING OF THE FINAL EXAM IS SUBJECT TO CHANGE. 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.