

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 2 Science & Technology, 555-204

CLASS RESOURCES: Worlds workbook and online exercises, Explore Learning

COURSE DESCRIPTION:

Secondary 2 Science and Technology is a stepping stone from building a foundation to creating an understanding of scientific concepts. The focus of this course is to build an understanding of science and its implications in our lives. The course involves hands-on labs, virtual labs for individual practice as well as theoretical components.

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).

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:

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:

- 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 Worlds workbook and online exercises, www.explorelearning.com,		
IB MYP Criterion	Examples of assessment/feedback summative	k both formative and/or	
A: Knowing and understanding	Standardized chapter tests		
 B: Inquiring and designing C: Processing and evaluating D: Reflecting on the impacts of science 	Self evaluations		

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 Worlds workbook and online exercises, www.explorelearning.com,		
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 Test		

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 -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 	Board Game Design Lab exam June theory exam			

***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

	This course has a final exam administered by the English Montreal School Board. The	e final course grade
is dete	mined by taking 70% of the school course grade and 30% of the school board exam.	

grade.

Additional Information/Specifications

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.