

# 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 1 Science & Technology, 555-104

CLASS RESOURCES: Worlds workbook and online exercises, Explore Learning

#### **COURSE DESCRIPTION:**

Secondary 1 Science and Technology is an introduction to the scientific aspects of life. The main focus of this course is to build a base for the foundation 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 also become familiar with standard laboratory practices and be encouraged to apply theoretical concepts in a practical way through lab work.

Students will 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	MEQ 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 inquiry and flexible minds that pose questions, solves 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 are 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	<ul> <li>Pens/Pencils/Highlighters</li> <li>Notebook/Loose leaf and bin</li> <li>Scientific calculator</li> <li>Worlds workbook and online</li> <li>www.explorelearning.com</li> </ul>	
IB MYP Criterion	Examples of assessment/feedback summative	k both formative and/or
<ul> <li>A: Knowing and understanding</li> <li>B: Inquiring and designing</li> <li>C: Processing and evaluating</li> <li>D: Reflecting on the impacts of science</li> </ul>	Standardized chapter tests Self-evaluations	

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 <sup>th</sup>
Communication to students and parents	Materials required	
Report card in February  Verbal/Written communication, telephone/e-mail may be on an as needed basis	<ul> <li>Pens/Pencils/Highlighters</li> <li>Notebook/Loose leaf and binder</li> <li>Scientific calculator</li> <li>Worlds workbook and online exercises</li> <li>www.explorelearning.com</li> </ul>	
IB MYP Criterion	Examples of assessment/feedback bot summative	h formative and/or
<ul> <li>A: Knowing and understanding</li> <li>B: Inquiring and designing</li> <li>C: Processing and evaluating</li> <li>D: Reflecting on the impacts of science</li> </ul>	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 <sup>th</sup>
Communication to students and parents	Materials required	

Report card in June  Verbal/Written communication, telephone/e-mail may be on an as-needed basis	<ul> <li>Pens/Pencils/Highlighters</li> <li>Notebook/Loose leaf and binder</li> <li>Scientific calculator</li> <li>Worlds workbook and online exercises</li> <li>www.explorelearning.com</li> </ul>
IB MYP Criterion	Examples of assessment/feedback both formative and/or summative
<ul> <li>A: Knowing and understanding</li> <li>B: Inquiring and designing</li> <li>C: Processing and evaluating</li> <li>D: Reflecting on the impacts of science</li> </ul>	Egg Drop Challenge  Lab exam  June theory exam

Additional Information/Specifications		
***NOTE THAT THE WEIGHTING OF THE FINAL EXAM IS SUBJECT TO CHANGE.		
□ grade.	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 Laurier MacDonald High School. The final course grade is ined by taking 80% of the school course grade and 20% of the final exam.	
•	This course has a final exam administered by the <i>Ministère de l'Éducation et de l'Enseignement ur</i> (MEES). The final course grade is determined by taking 50% of the school course grade and 50% of ES exam. Please note that the final course grade is subject to MEEs moderation.	