



COURSE STANDARDS AND PROCEDURES

COURSE:

Secondary 3 Science and Technology, 555-306

CLASS RESOURCES: Practical Guide

COURSE DESCRIPTION: This course is designed for students in Secondary 3 Science and Technology. 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	Competency 1: Seeks answer or solutions to scientific or technological problems.
reach conclusions.	
Cultivate analytical inquiring and flexible	Competency 2: Makes the most of his/her
minds that pose questions, solves	knowledge of science and technology
problems, construct explanations, and	
judge arguments.	

FUNDAMENTAL IB CONCEPTS:

- Holistic learning: Mathematics is 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 ATL 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:

	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 2nd
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 -Study Guide -Practical Guide -index cards	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 	Nutrients 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 Midterm lab exam (TBD) Midterm theory	To finish by: February 2nd
Communication to students and parents	Materials required	<u> </u>
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 card	
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 	Digestive assignment Tech assignment	

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 -lab exam -June theory exam	To finish by: June 21

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 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 	Technical designs Dilution and concentration labs

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.