

St. Thomas High School

Course Outline/Evaluation Criteria

Teacher's Name:	Mrs. Sterle-Contala		
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Course:	Science and Technology 194	Year:	2018-2019
Level:	Secondary 1	Program:	IB
Prerequisites:	None		

Objectives: The students will be introduced to basic science and technology concepts. Throughout the year they will learn about 4 interacting areas: the material world, the living world, the technological world, as well as earth and space. They will also have the opportunity to learn about the scientific method, as well as the tech design process, and apply their knowledge in laboratories.

Required Workbook: Univers L'Essentiel
(they have access online through: mabiblio.pearsonerpi.com)

Materials: Binder, 5 dividers, 5 plastic sheet protectors, notebook, 4 workbooks (32 pages), graph paper (~20 sheets), pens (blue and red), pencils, eraser, pencil sharpener, highlighters, ruler, scissors, a calculator, glue stick, and 10 coloring pencils
Optional, but recommended: English-French dictionary, Kleenex box

Evaluation Criteria: Students will be evaluated on a variety of activities throughout the year: class work, participation, homework, projects, revision sheets, quizzes and tests.

Component 1: (40%) Practical

This consists of labs and technical design activities.

Component 2: (60%) Theoretical

This consists of quizzes, tests, exams, projects, homework and review tasks.

Terms will be weighted as follows:

Term 1: 20%

Term 2: 20%

Term 3: 60%

Important Exams:

- 1) **Mid-term exam (theory):** during exam period at the end of December (19-20-21)
 - Everything learnt from September - December
 - Will get a study guide about 4-6 weeks before the midterm
 - Will get a review package (practice questions) closer to the date of exam

 - 2) **Lab exam (practical):** should be at the beginning of Term 3
 - Based on the skills learnt in the lab prior to the exam
 - Will get a study guide about 2 weeks before the exam

 - 3) **Final exam (theory):** during exam period in June
 - Will get a study guide about 4-6 weeks before the final
 - Will get a review package (practice questions) closer to the date of exam
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IB Program

IB Report Card:

Students will receive one IB report card at the end of the year.

IB Evaluation:

IB projects, reflections, assignments and some tests are also graded using IB criteria throughout the year.

There are 4 science criteria which will appear on their end of year report card:.

A: Knowing and understanding

The student is able to:

- i. outline scientific knowledge
- ii. apply scientific knowledge and understanding to solve problems set in familiar situations and suggest solutions to problems set in unfamiliar situations
- iii. interpret information to make scientifically supported judgments.

B: Inquiring and designing

The student is able to:

- i. outline a problem or question to be tested by a scientific investigation
- ii. outline a testable prediction using scientific reasoning
- iii. outline how to manipulate the variables, and outline how sufficient, relevant data will be collected
- iv. design a logical, complete and safe method in which he or she selects appropriate materials and equipment.

C: Processing and Evaluating

The student is able to:

- i. correctly collect, organize, transform and present data in numerical and/or visual forms
- ii. accurately interpret data and outline results using correct scientific reasoning
- iii. discuss the validity of a prediction based on the outcome of a scientific investigation
- iv. discuss the validity of the method based on the outcome of a scientific investigation
- v. describe improvements or extensions to the method that would benefit the scientific investigation.

D: Reflecting on the impacts of science

The student is able to:

- i. summarize the ways in which science is applied and used to address a specific problem or issue
- ii. describe and summarize the implications of using science and its application to solve a specific problem or issue, interacting with a factor
- iii. consistently apply scientific language to communicate understanding clearly and precisely
- iv. document sources completely.

ManageBac:

Over the past year we have adopted a new digital platform, ManageBac, in order to centralize communication regarding classes as well the school as a whole. This platform has both a student page as well as a parent page, where you will be kept up to date with key information. All students as well as parents will be added into the systems. You will be receiving a welcome email, if you have not already, with the instructions on how to create a password. Our site can be accessed at <https://stthomas.managebac.com>. For assistance in navigating the platform please consult the following page, https://help.managebac.com/support?manual_id=3621