

Math 506 Standards and Procedures 2019-2020

Course Name: Secondary V Math [Science Option]

Course Number: Math 506 **Section:** 1

Teacher: Mr. Charles **Room:** 308

Course Description:

This course will cover the curriculum specified by the Quebec Ministry of Education. The content assumes successful completion of Math 406 (Secondary IV Science Math). It prepares students for success in any CEGEP program. This option is intended for students who seek to understand the origin of different phenomena and how they work, as well as to explain them and make decisions that pertain to them. Students who are eligible for this option will learn to develop formal proofs in situations where there is a need to confirm a truth. By focusing on the properties of mathematical objects, this option places a greater emphasis on a student's capacity to think abstractly. Students will also develop strategies and acquire an academic background that enables them to pursue studies in the hard sciences, business studies or in any other field they may choose.

Term 1 [14%]			
Topic	Competency Targeted	Essential Assignments	Complete By
Functions	Uses Mathematical Reasoning [100%]	<ul style="list-style-type: none"> ▪ Formative Assessments based on Homework ▪ Quiz: Functions ▪ Test: Functions 	October 17
Systems of Equations and Inequalities		<ul style="list-style-type: none"> ▪ Formative Assessments based on Homework ▪ Quiz: Systems of Equations ▪ Test: Systems of Equations 	November 22

Term 2 [14%]			
Topic	Competency Targeted	Essential Assignments	Complete By
Exponential and Logarithmic Functions	Solves a Situational Problem [30%] Uses Mathematical Reasoning [70%]	<ul style="list-style-type: none"> ▪ Formative Assessments based on Homework ▪ Quiz: Exponential and Logarithmic Functions ▪ Test: Exponential and Logarithmic Functions ▪ Project: Population Growth 	January 25
Vectors		<ul style="list-style-type: none"> ▪ Formative Assessments based on Homework ▪ Quiz: Systems of Vectors ▪ Test: Vectors 	March 13
Exam [30 % of term 2]			January

Term 3 [42%]			
Topic	Competency Targeted	Essential Assignments	Complete By
Vectors	Solves a Situational Problem [30%] Uses Mathematical Reasoning [70%]	<ul style="list-style-type: none"> ▪ Formative Assessments based on Homework ▪ Quiz: Systems of Equations ▪ Test: Systems of Equations 	March 13
Trigonometric Functions		<ul style="list-style-type: none"> ▪ Formative Assessments based on Homework ▪ Quiz: Systems of Equations ▪ Test: Systems of Equations ▪ Project: Daylight Hours 	April 18
Conics		<ul style="list-style-type: none"> ▪ Formative Assessments based on Homework ▪ Quiz: Systems of Equations ▪ Test: Systems of Equations 	May 29
Review			June 6

Final Exam [30%]	
Multiple Choice	6 questions, 24 marks
Short Answer	4 questions, 16 marks
Extended Answer	6 questions, 60 marks

Communications
<p>Letter of Academic Risk</p> <p>Progress Report [October]</p> <p>Term Report [at end of each term]</p> <p>Agenda [teacher or parent may use this to communicate information about the student]</p> <p>Email: mcharles@emsb.qc.ca</p>

Materials:

For this class, you will be expected to have the following items with you for each class period.

Textbook

Workbook

Binder: Your binder will be divided into 5 sections. You must have a **divider** for each section.

- Notes
- Class work/Homework
- Handouts (like this one!)
- Tests and Assignments
- Paper (lined and grid)

A Pencil Case containing the following:

- **Pens** (2 colours, one of which should be either **blue** or **black**. Pen is to be used for note taking)
- **Pencils** (to be used for class work and homework)
- **White Out**
- **Erasers**
- **Ruler**
- **Scientific Calculator**
- **Highlighter**

Journal (a bound book containing pages of lined paper)

Plastic Portfolio (must have 3 to 5 compartments)

The following items will be required only at certain stages. I will inform you in advance.

Geometry Set (Compass, Protractor, Triangle)

Graph Paper

Websites:

The following websites are used extensively throughout the year. Students are required to create and maintain their accounts throughout the year. Each student is responsible for recording their username and password so they are able to access their accounts when required.

www.khanacademy.org

www.desmos.com