

## Level of Instruction: Senior High

### Curriculum Overview

Mathematics 3200 is the third course in the Advanced Program for High School Mathematics in Newfoundland & Labrador. It replaces the previous Mathematics 3205 course. This program is designed to provide students with the mathematical understandings and critical-thinking skills identified for entry into post-secondary programs that require the study of calculus – specifically (but not limited to) the areas of science, mathematics and/or engineering. The Advanced Program aims to prepare students to make connections between mathematics and its applications and to become numerate adults, using mathematics to contribute to society.

### Authorized Learning Resource

*Pre-Calculus 12* (McGraw Hill Ryerson)

### Unit Break Down

Unit	Topic and Chapters	Chapters in text	Hours (% of course)	Approx. Completion
1	Polynomial Functions	3	14 (13%)	Oct. 3
2	Function Transformations	1	11 (10%)	Oct. 27
3	Radical Functions	2	8 (7%)	Nov. 14
4	Trigonometry & the Unit Circle	4	12 (11%)	Dec. 9
5	Trigonometric Functions & Graphs	5	12 (11%)	Jan. 16
6	Trigonometric Identities	6	15 (14%)	Mar. 4
7	Exponential Functions	7	12 (11%)	Mar. 30
8	Logarithmic Functions	8	12 (11%)	Apr. 30
9	Permutations, Combinations & the Binomial Theorem	11	14 (12%)	May 29

**Assessment:**

Assessment in this course is governed by the *Assessment and Evaluation Policy* of the Newfoundland & Labrador English School District. While this policy is under review, teachers and students should follow the policy that was in place for their respective former district.

**Assessment and Evaluation Plan for Mathematics 3200:**

Tests/Quizzes	20%
Mid-year Exam	15%
Final Exam ( <i>administered by the Dept. of Education</i> )	50%
Other Forms of Assessment (Assignments, portfolio, journal, presentation, projects)	15%

**Note:** All evidence of learning shall be considered when determining a student's final grade. Averaging shall not be used as a sole indicator of a student's level of attainment of the course outcomes.

**Resource Links:**

[Curriculum Guide for Mathematics 3200](#)

[http://www.ed.gov.nl.ca/edu/k12/curriculum/guides/mathematics/math3200/Mathematics\\_3200\\_Curriculum\\_Guide.pdf](http://www.ed.gov.nl.ca/edu/k12/curriculum/guides/mathematics/math3200/Mathematics_3200_Curriculum_Guide.pdf)