McCreary School
2025/2026
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Applied Math
40S

YEAR PLAN SUMMARY

Timeline	Unit & Topic
September	**1. Financial Math: Investments**
	Compound Interest
	Investment Portfolios
	Ratios and Rates
	2. Financial Math: Borrowing
October	Rent, Lease, Buy
	3. Set Theory and Logic
	Set Theory
	Conditional Statements
	4. Counting Methods
November	Counting Principles
	Permutations
	Combinations
	5. Probability
	Validity of Probability Statements
	Mutually Exclusive & Inclusive Events
	Independent and Dependent Events
	6. Polynomial Functions
December	Polynomial Functions
	7. Exponential & Logarithmic Functions
	Exponential & Logarithmic Functions
	CHRISTMAS BREAK
January	**8. Sinusoidal Functions**
	Sinusoidal Functions
	Exam Review
	Final Exam

COURSE INFORMATION

Course Code: 3903
Value Credit: 1.0
Duration: Semester 1
Classroom: Room 14
Prerequisites: Applied Math 30S

COURSE TEXTBOOK

Foundations of Mathematics 12. Nelson. 2011.

COURSE TECHNOLOGY

Office 365
MS Teams: Grade 12 Applied
Desmos
Ti-83 Graphing Calculator

SUPPLIES

- 3-Ring Binder
- Pencils, Erasers, & Pens
- 1 Geometry Set
- 1 Scientific Calculator
- 200 Page Coiled Notebook
- 0.5cm Graph Paper
- Ruler
- Highlighters

UNIFYING CONCEPTS & GENERAL OUTCOMES

Grade 12 Applied Mathematics is intended for students considering post-secondary studies who do not require a study of theoretical calculus. It is context-driven and promotes the learning of numerical and geometrical problem-solving techniques as they relate to the world around us.

Primary goals of Applied Mathematics are to have students develop critical-thinking skills through problem solving and model real-world situations mathematically to make predictions.

ACADEMIC ASSESSMENT

Assessment Category	Assessment Item	Item Weight	Category Weight
Outcome Assessments	Design and Measurement – *no aligned textbook chapters*	20%	30%
	Financial Math - Ch 1 & 2	20%	
	Logical Reasoning - Ch 3	20%	
	Probability & Counting Methods - Ch 4 & 5	20%	
	Relations and Functions - Ch 6, 7 & 8	20%	
Chapter Tests	Ch 1: Financial Math - Investments	12.5%	50%
	Ch 2: Financial Math - Borrowing	12.5%	
	Ch 3: Set Theory and Logic	12.5%	
	Ch 4: Counting Methods	12.5%	
	Ch 5: Probability	12.5%	
	Ch 6: Polynomial Functions	12.5%	
	Ch 7: Exponential & Logarithmic Functions	12.5%	
	Ch 8: Sinusoidal Functions	12.5%	
Final Exam	Provincial Exam on January 20th, 2026 The details of the exam will be decided at a later date.	100%	20%
Total			**100%**

BEHAVIOURAL ASSESSMENT

Students will receive a letter grade on their report cards for the following:

- *Personal Management:* Uses class time effectively; works independently; completes homework and assignments on time.

- *Active Participation in Learning*: Participates in class activities; sets learning goals.

- *Social Responsibility*: Works well with others; resolves conflicts appropriately; respects self, others and environment; contributes in a positive way.

ASSESSMENT GUIDELINES

Homework: You won't have homework every night, but when it is assigned it is expected to be completed on time. Being a split class means we need to maximize our time together. In order to get the greatest benefit from scheduled direct instruction, students need to be prepared, which means having assigned work completed.

Textbook Assignments: It is expected that all students use class time wisely and complete all assignments on time. A lot of the work students complete will not be graded, but that does not mean that it's not important. These practice opportunities are meant to help both the student and the teacher assess whether or not the student has developed an appropriate level of understanding prior to being given a summative assessment which will contribute to the final grade.

Outcome Assessments: Students will be given 5 outcome assessments throughout the course. These assessments are open book and students will be given some class time to complete each, but they may also be completed at home. Each assessment is to be completed ONE WEEK of completing the corresponding chapter test(s).

Chapter Tests: There will be 8 chapter tests throughout the semester. Students are allowed a personalized study sheet for each chapter test. The study sheet is to be a maximum of one side of a HALF of 8.5" x 11" paper.

Final Exam: All students will be required to write the provincial exam on January 20th, 2026. The final exam is worth 20% of the student's overall grade. More information will come from the province later.

RULES AND EXPECTATIONS

<u>Daily Classroom Expectations:</u> Show up to class on time, with all your supplies, and use class time effectively. Take responsibility for your learning by completing all assigned work and being proactive rather than reactive.

<u>Absent:</u> If you are absent, please connect with me to find out what you missed. YOU are responsible for making up all missed work. If you have an excused absence for the day of a test, please make arrangements to write it the day you return to school. If you skip a test or quiz you will receive a zero.

<u>Extra Help:</u> Extra help will always be available when you need it. I am generally available before and after school, as well as at lunch hour. Please make arrangements with me if this is something you are needing.

<u>Technology in the Classroom:</u> Students are encouraged to bring their school provided laptop with them to school every day. Cell phones will not be permitted during class time. Improper use of technology may result in a loss of certain privileges.

<u>Academic Dishonesty:</u> Academic dishonesty, including, but not limited to inappropriate collaboration, plagiarism, and cheating is a severe offence and will be dealt with according to the policy outlined in the school handbook.

<u>Late Policy:</u> Work is to be completed on time and to the best of the student's ability. Late or missing assignments will be penalized as outlined in the school student handbook, "Upon teacher discretion a maximum of 5% may be deducted for every day the assignment is not turned in. If the assignment is not turned in after two weeks or at the start of a new unit, the assignment will receive a mark of zero."