

Foundation of Math 12 Course Outline

Course: FOM12

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Course Length:

10 months

(approx. 120 hours)

Course Layout

The curriculum for this course is organized around these Big Ideas:

- Probabilistic thinking informs decision-making in situations involving chance and uncertainty.
- Modelling data requires an understanding of a variety of functions.
- Mathematical analysis informs financial decisions.
- Through explorations of spatial relationships, we can develop a geometrical appreciation of the world around us.

This course is broken down as follows:

Unit	Topic
Preliminary Assignments	Course Outline Course Progress and Timeline
1	Finance- Investing Money
2	Finance - Borrowing Money
3	Combinatorics
4	Probability
5	Polynomial Functions
6	Exponential and Logarithmic Functions
7	Sinusoidal Functions
8	Conics
9	Constructions and Fractals
Course Completion	Core Competency Reflection

Assessment

Quizzes and Unit Tests will be marked using a percentage.

Percentage	Proficiency Scale
86%+	Extending
73% - 85%	Proficient
60% - 72%	Developing
50% - 59%	Emerging
<50%	Additional Support Required and Retest

Upon the completion of this course, you will receive a final grade calculated by weight:

Category	Percentage
Unit Assignments	40%
Inquiry Projects	20%
Unit Tests	40%

Unit Assignments

The Unit 1 assignment must be submitted within **30 days of enrolment** to be activated in this course.

The first page of every unit contains the Unit Assignment. You must complete the Unit Assignment as you work through the lessons.

Inquiry Projects

Inquiry projects are designed for you to apply what has been learned to real life. There are five inquiry projects in this course.

Be sure to keep your work neat and organized. Read the rubric carefully. Communicate your ideas as much as you can.

Unit Tests: Exam Supervision

Each unit includes one unit test. Questions are multiple-choice and are automatically marked by the computer. All exams are "closed book" and require supervision. You will only have one attempt at the unit test.

Your parent or guardian must:

- Ensure the student has submitted all the assignments for the unit before taking the test.
- Supervise your test-taking to ensure no additional notes or resources are used while taking the test.

Course Activity

Students must be working to complete learning engagements on a regular basis. Students who are inactive after two weeks will receive an email to their Brightspace email program providing a warning of inactivity. Students who are inactive after 1 month may be withdrawn from the course. If a student is planning to be inactive due to personal reasons, they need to contact their teacher to inform them of the period of inactivity.

Students should aim to complete a minimum of one unit per month to finish the course within a 10-month period.

To finalize your registration in the course, you need to complete the Unit 1 Assignment within 30 days of your registration. You may be removed from the course if this has not been completed in time.

Contacting your Teacher

The best way to communicate with your teacher is through the Brightspace Email program. To access the email program, click on the small envelope at the top right-hand corner of your screen, then click Email. This will direct you to the Brightspace Email program.

Parents and Guardians can email your teacher at Leila.Dianati@burnabyschools.ca

Resources

There are NO textbooks required for this course. You do need a basic scientific calculator. There is a formula sheet in the course overview for use.

Plagiarism

Plagiarism is unacceptable under any circumstances. You are expected to create authentic work that demonstrates your own understanding. If you are caught cheating, plagiarizing, or submitting AI-generated responses within this course, you may be removed from the course.

Keys to Success

1. Actively work through each lesson, trying examples and reflecting on the material.
2. Use the Learning Guide as your tool for documenting your understanding. Lay it out neatly and well-organized and self-mark before submitting.
3. Make sure you understand any quiz/exam question you get wrong. If you can't figure it out - ASK!
4. Use the message system for regular communication with your instructor.