

Foundations of Math 12



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Introduction

Foundations of Math 12 is an elective academic class. The class starts off with a focus on math that applies to real world situations such as finance and probability, and finishes with an introduction to new types of functions and graphs. Completing FOM12 satisfies the grade 11 or 12 math class requirement for graduation. If you plan on studying something like math, science, engineering, or computer science at a university you may wish to take Pre-Calculus 12 instead. Check the specific requirements of your desired program.

In this online class, students watch video lessons and do practice questions through a service called Content Connections, which acts like an online textbook and homework resource. As they work through the lessons, students will complete short (mostly multiple choice) quizzes. Each unit finishes with an assignment and a test.

Topics

- Unit 1 Finance - Investing Money
- Unit 2 Finance - Borrowing Money
- Unit 3 Combinatorics
- Unit 4 Probability
- Unit 5 Polynomial Functions
- Unit 6 Exponential and Logarithmic Functions
- Unit 7 Sinusoidal Functions
- Unit 8 Conics
- Unit 9 Constructions and Fractals

Unit Contents

Each unit contains:

- Video lessons
- Online practice questions
- Quizzes
- a Review Assignment
- a Test

Grades

Quizzes	10%
Assignments	45%
Tests	45%

Curriculum 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.

Resources

- Online Classes: <https://nlps.instructure.com>
- Jupiter Grades: <https://jupitergrades.com>
- School Website: <https://island-connected.sd68.bc.ca>
- BC Curriculum: [Foundations of Math 12](#)

Attendance

Please be aware that Island Connect K-12 does not have a general attendance requirement. However, it is in your best interests to make a habit of checking in with your teacher – either face to face, by email, phone or through video conference. Past learners have stated that such contact promotes engagement with the course materials and serves to motivate them to complete the work in a timely fashion.

Completion Timeline Expectations

You should plan to complete this class within 4 months of signing up – the duration of a normal high school semester. However, online classes are self-paced. It is up to you if you would like to complete the class more quickly or need more time. Either way, it is recommended that you make yourself a schedule and stick to it so that you can meet your personal goal for completing your online class.

Some online classes have a hard deadline at the end of the school year (end of June), depending on when you activated. Check with your teacher if you are concerned about class deadlines.

If you require a final grade for post-secondary applications, scholarships, etc. it is up to you to meet that deadline and allow time for your teacher to mark your work and send in a final grade.