

Foundations of Math and Pre-Calculus 10



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Introduction

FMPC10 is an academic class that builds on a student's existing skills and introduces many foundational concepts for senior math classes. Students will use mathematical ideas along with logic and reasoning to analyze situations and solve problems. This class will prepare students for either Foundations of Math 11 or Pre-Calculus 11.

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 Exponents
- Unit 2 Relations & Functions
- Unit 3 Linear Relations
- Unit 4 Linear Systems
- Unit 5 Multiplying Polynomials
- Unit 6 Factoring Polynomials
- Unit 7 Right Angled Trigonometry
- Unit 8 Financial Literacy

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

- Algebra allows us to **generalize** relationships through abstract thinking.
- The meanings of, and **connections** between, each operation extend to powers and polynomials.
- Constant rate of change is an essential attribute of linear **relations** and has meaning in different representations and contexts.
- Trigonometry involves using **proportional reasoning** to solve **indirect measurement** problems.
- Representing and analyzing **situations** allows us to notice and wonder about relationships.

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 and Pre-Calculus 10](#)

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.