



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 Study Forge, which acts like an online textbook and homework resource. Students then move on to a Practice Test that has both an online and written component. The Practice Tests are purposefully similar to the actual tests, so students can get comfortable with the test format and questions. There are also projects in chapters 1, 2, 4, and 6, and the class finishes off with a final exam.

Topics

- Chapter 1 Trigonometry
- Chapter 2 Exponents & Radicals
- Chapter 3 Polynomials
- Chapter 4 Functions & Relations
- Chapter 5 Linear Relations
- Chapter 6 Linear Systems
- Chapter 7 Financial Literacy

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.

Grades

7 Practice Tests	→	0%
7 Chapter Tests	→	70%
4 Projects	→	20%
Final Exam	→	10%

- To unlock Chapter Test A, students must get 60%+ on that Practice Test
- After attempting Chapter Test A, the retest Chapter Test B unlocks
- Chapter Test B versions are optional, so only do them if you're not happy with your result on Version A.

When the authenticity of student work is in question, the teacher reserves the right to base final grades on teacher supervised assignments and assessments.

Resources

website: <http://sd68.blackboard.com>
login: #lastnamefirstinitial
password: firstname

Jupiter Grades: Mark update and assignment feedback at
<https://jupitergrades.com>

School Website: <https://island-connected.sd68.bc.ca>

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 at least once a week – face to face, by email, phone or through the virtual office link above. 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

Successful learners typically finish within four months of initial enrollment in this course. COMMIT to achieving your goals! Get a calendar out and plan how you and when you will complete each lesson in the first two units immediately. If you mess up, do your best to catch up, but change the timeline right away to reflect this change and, then, do your best to never let yourself fall behind again.