

# Apprenticeship Math 12



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## Introduction

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Apprenticeship Math 12 builds on and expands the concepts learned in Workplace Math 11, but can also be taken as an elective course following Pre-Calculus Math 11 or Foundations of Math 11. Apprenticeship Math 12 is the appropriate class for students planning to study a trade at the university or college level. 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

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- Unit 1      Measurements and Limits to Measurements
- Unit 2      Trigonometry
- Unit 3      Surface Area and Volume
- Unit 4      Isometric and Orthographic Projections of 3D Objects
- Unit 5      Owning a Small Business

## Unit Contents

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Each unit contains:

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

## Grades

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Quizzes	10%
Assignments	45%
Tests	45%

## Curriculum Big Ideas

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<b>Design</b> involves investigating, planning, creating, and evaluating.	Constructing <b>3D objects</b> often requires a 2D plan.	<b>Transferring mathematical skills</b> between problems requires conceptual understanding and flexible thinking.	<b>Proportional reasoning</b> is used to make sense of multiplicative relationships.	Choosing a tool based on required precision and accuracy is important when <b>measuring</b> .
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## Resources

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Online Classes: <https://nlps.instructure.com>

Jupiter Grades: <https://jupitergrades.com>

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

BC Curriculum: [Pre-Calculus 12](#)

## **Attendance**

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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**

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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.