

New Westminster Online Learning School

Course Title and Grade: Foundations and Pre-Calculus Math 10

Course Description

In Foundations and Pre-Calculus 10, Students focus on algebraic concepts to help generalize patterns of abstract thinking. This abstract thinking can help students prepare for higher level thinking in future learning. The course comprises seven units where students solve questions involving Trigonometry, Linear Geometry, and Arithmetic Sequences.

Course Expectation

Students are expected to login regularly. Courses are to be completed in approximately four months. Some testing will be done under the supervision of a teacher.

Enduring Understanding/Big Ideas_(taken right from [bced.gov.bc.ca](https://www.bced.gov.bc.ca))

- 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.

Specific Learning Outcomes

Visit: (<https://curriculum.gov.bc.ca/curriculum/mathematics/10/foundations-of-mathematics-and-pre-calculus>)

Course Content

| | |
|----------|---------------------------|
| Module 1 | Right-Angled Trigonometry |
| Module 2 | Sequences and Series |
| Module 3 | Factoring |
| Module 4 | Roots and Powers |
| Module 5 | Relations and Functions |
| Module 6 | Linear Functions |
| Module 7 | Systems of Equations |

Student Learning Activities and Strategies

Worksheets, Written material, videos, quizzes, tests

Assessment

- Worksheets and practice tests

Evaluation

| Learning Activity | Percentage of Final Mark |
|-------------------|--------------------------|
| Testing | 100 |
| | |
| Total | 100% |

Resources

Scientific Calculator

Desmos

A computer with an Internet connection is needed.