

## 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)

- 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