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Course: Math 09

Course 10 months

Length: (approx 120 hours)

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Course Description: The BC Ministry of Education **Mathematics 9** Curriculum Guide (2016) consists of 5 Big Ideas which are further expressed as learning standards:

Big Idea 1: Numeracy: The principles and processes underlying operations with numbers apply equally to algebraic situations and can be described and analyzed

- A. exponents and exponent laws with whole-number exponents

Big Idea 2 Computational Fluency: Computational fluency and flexibility with numbers extend to operations with rational numbers.

- B. operations with rational numbers (addition, subtraction, multiplication, division, and order of operations)
- C. financial literacy — simple budgets and transactions

Big Idea 3 Patterning: Continuous linear relationships can be identified and represented in many connected ways to identify regularities and make generalizations.

- D. operations with polynomials, of degree less than or equal to 2
- E. two-variable linear relations, using graphing, interpolation, and extrapolation
- F. multi-step one-variable linear equations

Big Idea 4 Measurement and Geometry and Measurement: Similar shapes have proportional relationships that can be described, measured, and compared.

- G. spatial proportional reasoning

Big Idea 5 Data and Probability: Analyzing the validity, reliability, and representation of data enables us to compare and interpret.

- H. statistics in society

The Mathematics 9 course at Burnaby Online is laid out as follows

Resources

- A textbook is not required for this course
- Calculator permitted.

Content

Completion of boldface underlined items will activate a student for this course.

Units	Formative Assessment	Cumulative assessment	Learning Standards
1: Number Operations	2 Quizzes 1 Learning Guide	1 Unit Test	A
2: Rational Numbers	3 Quizzes 1 Learning Guide Project 1	1 Unit Test	A
3: Powers and Exponents	3 Quizzes 1 Learning Guide Project 2	1 Unit Test	B
4: Polynomials	4 Quizzes 1 Learning Guide	1 Unit Test	C
		Midterm Exam (Units 1 - 4)	A-C
5: Linear Equations	3 Quizzes 1 Learning Guide Project 3	1 Unit Test	D
6: Solving Linear Equations	4 Quizzes 1 Learning Guide	1 Unit Test	D
7: Scale Factors and Similarity	2 Quizzes 1 Learning Guide Project 4	1 Unit Test	F
8: Data Analysis	2 Quizzes 1 Learning Guide Project 5	1 Unit Test	G
9: The Language of Finance	2 Quizzes 1 Learning Guide Project 6	1 Unit Test	H
		Final Exam (Units 5 – 9)	D-H

Weighting of Marks

Learning Guides	30%
Unit Quizzes	10%
Unit Test	30%
Projects	15%
Midterms	15%

Students are expected to:

- contact the teacher by instant messaging, email or phone when help is needed or questions arise
- be actively engaged and submitting work on a regular basis
- inform the teacher when they will be inactive for two or more weeks.
- be aware that if they are inactive in a course for four or more weeks they may be removed from that course
- check their email at least twice a week
- create and submit completed solutions for all activities in the unit/chapter before requesting a test.
- cite all sources properly
- answer in their own words
- check that their work and tests have been marked.
- make time available to come in to Burnaby Online to write tests.
- make appointments to write tests at least 2 school days in advance.