

8580 16th Ave, Burnaby, BC, V3N 1S6

Telephone: (604)296-6940 Toll free 1-888-479-8882 Email:
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<http://online.sd41.bc.ca>

Information online.info@sd41.bc.ca
Registration register.online@sd41.bc.ca

Course: Math 08

Course 10 months

Length: (approx 120 hours)

Teacher: Francis Tsen

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IM: Francis Tsen

Course Description: The Ministry of Education **Mathematics 8** Curriculum Guide (2016) consists of 5 Big Ideas which are further expressed as learning standards:

Big Idea 1: Numeracy: Number represents, describes, and compares the quantities of ratios, rates, and percents.

- A. perfect squares and cubes
- B. square and cube roots

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

- C. percents less than 1 and greater than 100 (decimal and fractional percents)
- D. numerical proportional reasoning (rates, ratio, proportions, and percent)
- E. operations with fractions (addition, subtraction, multiplication, division, and order of operations)

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

- F. discrete linear relations (extended to larger numbers, limited to integers)
- G. expressions- writing and evaluating using substitution
- H. two-step equations with integer coefficients, constants, and solutions

Big Idea 4 Measurement and Geometry and Measurement: The relationship between surface area and volume of 3D objects can be used to describe, measure, and compare spatial relationships

- I. surface area and volume of regular solids, including triangular and other right prisms and cylinders
- J. Pythagorean theorem
- K. construction, views, and nets of 3D objects

Big Idea 5 Data and Probability: Analyzing data by determining averages is one way to make sense of large data sets and enables us to compare and interpret

- L. central tendency
- M. theoretical probability with two independent events
- N. *financial literacy — best buys

* Listed last on the curriculum guide, but is considered part of Big Idea 2

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The Mathematics 8 course at Burnaby Online is laid out as follows

Resources

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

Content

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

Big Idea	Units	Formative Assessment	Cumulative Assessment	Learning Standards
Big Idea 1 Numeracy	<u>1: Square Roots</u>	<u>1 Assignment</u> <u>1 Practice Quiz</u>	1 Unit Exam	A, B, J
	2: Fractions	1 Assignment 1 Practice quiz	1 Unit Exam	E
	Big Idea 1 Project			
Big Idea 2 Computational Fluency	3: Percents	1 Assignment 1 Practice quiz	1 Unit Exam	C
	4: Rate and Ratios	1 Assignment 1 Practice quiz	1 Unit Exam	D and N
	Big Idea 2 Project			
Midterm 1 (covering units 1-4)				
Big Idea 3 Patterning	5: Linear Relations	1 Assignment 1 Practice quiz	1 Unit Exam	F, G,H
	Big Idea 3 Project			
Big Idea 4 Geometry and Measurement	6: Geometry	1 Assignment 1 Practice quiz	1 Unit Exam	I, K
	Big Idea 4 Project			
Big Idea 5 Data and Probability	7: Presenting Data	1 Assignment 1 Practice quiz	1 Unit Exam	L, M
	Big Idea 5 Project			
Midterm 2 (covering units 5-7) A-M				

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Weighting of Marks

Unit Tests	30%
Learning Guides	15%
Projects	15%
Practice Quizzes	10%
Midterms	30%

Student Expectations

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.