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Course: Pre-calculus 11

Course Length: 10 months

Teacher: Ms. Leila Dianati

(approx. 120 hours)

Email: Leila.Dianati@burnabyschools.ca

Phone: 604 760-1686

Course Curriculum

The curriculum for this course is built around these Big Ideas

Algebra allows us to **generalize** relationships through abstract thinking.

The meanings of, and **connections** between, each operation extend to powers and polynomials.

Quadratic relationships are prevalent in the world around us.

Trigonometry involves using **proportional reasoning** to solve **indirect measurement** problems.

Students are expected to know the following:

- real number system
- powers with rational exponents
- radical operations and equations
- polynomial factoring
- rational expressions and equations
- quadratic functions and equations
- linear and quadratic inequalities
- trigonometry: non-right triangles and angles in standard position
- financial literacy: compound interest, investments, loans

Mark Weighing

Category	Weighing
Assignments	25%
Projects	10%
Unit Tests	45%
Midterm and Final	20%

Resources

- Textbook not required.
- A graphing calculator is required
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Course Content

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

Units	Formative Assessment	Summative Assessment
<u>1: Powers and Radicals</u>	<u>1 assignment</u>	1 Unit Test
2: Factoring Polynomials	1 assignment	1 Unit Test
3: Rational Expressions	1 assignment	1 Unit Test
4: Quadratic Functions	1 assignment	1 Unit Test
Midterm and Project 1		
5: Solving Quadratic Equations	1 assignment	1 Unit Test
6: Inequalities	1 assignment	1 Unit Test
7: Trigonometry	1 assignment	1 Unit Test
8: Financial Literacy	1 assignment	1 Unit Test
Final Exam and Project 2		

Students are expected to:

- contact the teacher by 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 appointments to write tests at least 2 school days in advance.