



Address: 8580 16th Ave, Burnaby, BC, V3N 1S6
Telephone: (604) 296-6940
Fax: (604) 296-6941
Toll Free: 1-888-479-8882

Website: <https://online.burnabyschools.ca/>
Information online.info@burnabyschools.ca
Registration register.online@burnabyschools.ca

Course: Foundations of Mathematics 11
Teacher: Ms. Leila Dianati
Email: Leila.Dianati@burnabyschools.ca
Phone: 604 760-1686

Course Length: 10 months
 (approx 120 hours)

Course Curriculum

The curriculum for this course is built around the following Big Ideas:

Similar shapes and objects have proportional relationships that can be described, measured, and compared.

Optimization informs the decision-making process in situations involving extreme values.

Logical reasoning helps us discover and describe mathematical truths.

Statistical analysis allows us to notice, wonder about, and answer questions about **variation**.

Building on these Big Ideas, Students are expected to know the following:

- forms of **mathematical reasoning**
- **angle relationships**
- **graphical analysis:**
 - **linear inequalities**
 - **quadratic functions**
 - **systems of equations**
 - **optimization**
- **applications of statistics**
- **scale models**
- **financial literacy:** compound interest, investments and loans

Mark Weighing

Category	Weighing
Assignments	35%
Project	25%
Unit Tests	40%

Resources

- A textbook is not required for this course.
- A graphing calculator (Suggested: TI-83Plus)
Students may want to use an online graphing calculator or an emulator on their phone

Course Content

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

Units	Formative Assessment	Cumulative Assessment
1: Inductive and Deductive Reasoning	<u>1 assignment</u> 1 project	1 Unit test
2: Properties of Angles and Triangles	1 assignment	1 Unit test
3: Non Right-Angle Triangle Trigonometry	1 assignment	1 Unit test
4: Systems of Linear Inequalities	1 assignment	1 Unit test
5: Quadratic Functions and Equations	1 assignment	1 Unit test
6: Quadratic Systems	1 assignment 1 project	1 Unit test
7: Proportional Reasoning	1 assignment	1 Unit test
8: Statistical Reasoning	1 assignment 1 project	1 Unit test
9: Financial Literacy	1 assignment 1 project	1 Unit test

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.