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Toll Free:	1-888-479-8882		
Course:	Foundations of Mathematics and Pre-Calculus 10	**Course Length:**	10 months (approx. 120 hours)
Teacher:	Ms. Elixa Neumann		
Email:	Elixa.Neumann@burnabyschools.ca		

Course Outline:

Foundations of Mathematics and Pre-Calculus 10

Course Description

The curriculum for this course is organized 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.	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.	Representing and analyzing situations allows us to notice and wonder about relationships.

Students are expected to know the following:

- operations on powers with integral exponents
- prime factorization
- functions and relations: connecting data, graphs, and situations
- linear functions: slope and equations of lines
- arithmetic sequences
- systems of linear equations
- multiplication of polynomial expressions
- polynomial factoring
- primary trigonometric ratios
- financial literacy: gross and net pay

Course Layout

Each unit features two quizzes, a Learning Guide, an Inquiry Project, and a Unit Test. Unit 7 only has one quiz. This course is broken down as follows:

Unit	Topic
Preliminary Assignments	About Me Course Outline
1	Exponents
2	Polynomials
3	Factoring
4	Equations
5	Graphing & Tables
6	Geometry
7	Sequences
8	Financial Literacy
Course Completion	Core Competency Reflection

Activation

To finalize registration in the course, students need to complete the Learning Guide and Inquiry Project for Unit 1 within 30 days of registration. Students may be removed from the course if this has not been completed in time.

Assessment

Learning Guides and Inquiry Projects will feature a rubric which will determine the resulting grade for the assignment. Here is an overview of the proficiency grading used within the rubrics:

Category	Percentage
Extending	Student has demonstrated a sophisticated understanding of the concept and competency and/or broadened learning beyond the expectations of this outcome. The work is detailed and tidy and demonstrates an exceptional understanding of the learning outcomes.
Proficient	Student has a complete understanding of the concept and competency. The work is tidy and demonstrates the strategies used to solve the problems.
Developing	Student has demonstrated a partial understanding of the concept and competencies.
Emerging	Student has demonstrated an initial understanding of the concept and competency and require additional support to demonstrate understanding.

Quizzes and Unit Tests will be marked using a percentage.

Upon the completion of this course, students will receive a final grade calculated by weight:

Category	Percentage
Learning Guides	30%
Inquiry Projects	20%
Quizzes	15%
Unit Tests	35%

Learning Guides and Inquiry Projects

These are the primary assignment for each unit. Students will download the Learning Guide at the start of each unit and complete it as they go through the unit. Students are expected to keep their work neat and organized, communicate their ideas as well as they can, and not skip any questions.

Before writing a unit exam, students must submit all assignments leading up to the exam. Students should be reviewing feedback from the teacher for the Learning Guide before taking the unit test.

Exam Supervision

Students may complete quizzes independently.

All exams are "closed book" and require supervision from a parent, guardian, or teacher. No additional notes or resources are to be used while taking the test.

Course Activity

Students must be working to complete learning engagements on a regular basis. Students who are inactive after two weeks will receive an email to their Brightspace email program providing a warning of inactivity. Students who are inactive after 1 month may be withdrawn from the course. If a student is planning to be inactive due to personal reasons, they need to contact their teacher to inform them of the period of inactivity.

Students should aim to complete a minimum of one unit per month to finish the course within a 10-month period.

Contacting the Teacher

Students are expected to contact the teacher when help is needed or questions arise. The best way to communicate with the teacher is through the Brightspace Email program. Students should be checking their Brightspace email program at least once a week.

Parents and Guardians can email the teacher at Elixa.Neumann@burnabyschools.ca

Resources

There are NO textbooks required for this course. Students need a basic scientific calculator.

Plagiarism

Plagiarism is unacceptable under any circumstance. Students are expected to create authentic work which demonstrates their own understanding. If students are caught cheating, plagiarizing, or submitting AI-generated responses within this course, they may be removed from the course. All sources must be cited.