#### **Pre-Calculus 11 Course Outline**

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# **CORE COMPETENCIES**









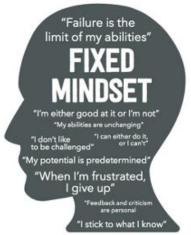
THINKING

COMMUNICATION

Core competencies are sets of intellectual, personal, and social and emotional proficiencies that all students need to develop in order to engage in life-long learning. In Pre-Calculus 11, we learn about new and expanded concepts from earlier grades designed to prepare you for Pre-Calculus 12 and future Calculus courses, but we also work on developing core competencies. In class you can:

- develop critical and creative thinking skills. Learning math and solving problems is a workout for our brains!
- develop a curious outlook. Ask any questions about mathematics and wonder about how concepts connect.
- work collaboratively with classmates and the teacher to fully understand concepts in a supportive environment.
- strive towards a growth mindset.





## **Topics Covered**

Unit 1: Roots and Powers

Unit 2: Radical Operations and Equations

Unit 3: Solving Quadratic Equations

Unit 4: Analyzing Quadratic Functions and Inequalities

Unit 5: Trigonometry

Unit 6: Rational Expressions and Equations

Unit 7: Financial Literacy

## **Course Evaluation**

80% Unit Tests, Final exam

20% Problem Solving and Assignments

## To Succeed in Pre-Calculus 11:

- 1. Be patient! Learning mathematics takes time. Go back to something that was difficult to learn and you might find that after a few days it is easier to understand.
- 2. Get enough sleep (8-10 hours). Your brain processes and sorts the information you learned throughout the day while you are sleeping.
- 3. Ask for help in class/at lunch.
- 4. Do at least 1 hour of math at home every day (redo examples from lesson, questions from workbook and worksheets, write/rewrite notes, watch videos, explain math concepts, work on problem solving, make a study group)
- 5. Focus during the lesson and during class work time.
- 6. Learn from mistakes. Mistakes are an opportunity to advance your learning. If you make a mistake, you now know what you didn't know and can focus on trying to understand that concept.
- Put phone away in backpack. Phones are designed to be addicting and distracting. The presence of a
  phone interferes with focus and concentration even if you are not using it. Enjoy learning, get better
  grades, and make new friends.

#### Workbook

Pre-calculus 11 my Worktext BC Edition

## Communication

Regular updates will be emailed to students and parents/guardians including information about upcoming tests and assignments.

# **Supplies**

Paper/notebook, graph paper, pencil, eraser, colourful pens/highlighters, scientific calculator (2 line display is recommended), workbook.

## **Classroom Expectations**

- Behave respectfully in our classroom (appropriate language, arrive on time, be considerate)
- Minimize distractions by putting devices away during class time.
- Do not copy assignments or cheat on tests.

Parent/Guardian will be notified if student is not following classroom expectations.

