



# Mathematics 10 PREP

## Course Outline

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### **Objective:**

Mathematics is a common human activity which is done throughout life. Every day, we can see how important math is a rapidly advancing society in areas such as technology and science. This course is designed to give you greater proficiency in mathematics and will increase the opportunities that are available to you, as an individual. As a student, you will explore problem-solving techniques, accommodate changing conditions, and actively create new knowledge in striving for self-fulfillment by becoming mathematically literate.

### **Evaluation:**

Each unit will consist of notes, homework, assignments, quizzes and a unit exam. The following will break down the marks for the year.

Unit Quizzes/Assignments	40%
Unit Assessment	30%
Final Exam	30%

Each unit exam will consist of 2 parts: non-calculator & calculator

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### **Course Outline:**

**Number Systems:**

- Powers and Exponents
- Square Roots
- Rational Numbers
- Number system

**Polynomials:**

- Adding and Subtracting Polynomials
- Multiplying Polynomials by a constant
- Multiplying Polynomials by a monomial
- Factoring

**Solving Equations and Equalities:**

- Solving equations using inverse operations
- Solving equations by balancing
- Solving equations by adding and subtracting
- Solving equations by multiplication and division

**Linear Relations:**

- Writing equations to describe patterns
- Matching equations to graphs
- Using graphs to estimate values

**Measurement:**

- Unit conversions
- Trigonometry

**Working With Money....and much more!**

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**Materials:**

- Students are required to have their own scientific calculator for the entire course. (Due to COVID rules, we will not be providing calculators at any time.) A graphing calculator is not required
- Binder / Notebook
- Pencils and erasers (Make sure you have your own!)

**Arrive on time:**

- You are expected to be in class every day, prepared and on time. (That means when the class begins.)

**Homework:**

- The best method for learning math is practice, practice and more practice.

- All questions assigned must be neatly completed, showing work and the correct answer.
- One hour of IXL Math will be expected to be done each week.
- If you do NOT get the correct answer, go back and attempt the question again. If you still do not get the correct answer, come ask for help.
- Ample time will be given in class to complete all homework, anything not completed will need to be completed at home.
- All math work is to be done in PENCIL!
- Homework Club runs every Tuesday from 3:30-4:30pm. A math teacher will be available every week.

### **Absences and missed tests/assignments:**

- You are responsible for anything that happens when you are not present (material and assignments)
  - All videos, note sheets and assignments will be posted in the Math 9 Google Classroom. If you are absent, this is where you will be able to get caught up.
  - Any missed quizzes will be replaced with your unit test mark
  - If you are absent on a test day, it will be written on the day of your return
  - You are responsible.

### **Do your work:**

- Use your class time well. Do not waste everyone's time.
- Review all work daily and weekly.
- If you are having trouble - get help! The sooner you tell us, the sooner we can help.

### **Classroom Routine:**

- Talking in class is disruptive to you, those around you, and the teacher.
- Note taking is an important skill to learn.
- **ASK QUESTIONS!** We may not recognize when you don't "get" something - and chances are that someone else is wondering the same thing (and will thank you for having the guts to ask).
- Water and small snacks are allowed in the classroom, however sharing is not permitted.



