

Math 10 Course Outline

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I. OBJECTIVES

A. **KNOWLEDGE** - As a result of this course, we hope the students will learn more about:

1. **MEASUREMENT**

- Imperial and SI units
- Surface Area and Volume

2. **TRIGONOMETRY**

- Sine, Cosine, and Tangent Ratios
- Solving problems with Trigonometry

3. **FACTORS AND PRODUCTS**

- Factoring Polynomials
- Multiplying Polynomials

4. **ROOTS AND POWERS**

- Irrational Numbers
- Exponents and Radicals
- Exponent Laws

5. **RELATIONS AND FUNCTIONS**

- Properties of functions
- Interpreting and sketching graphs
- Linear Relations and Linear Functions

6. **LINEAR FUNCTIONS**

- Equation of a line
- Slope of Parallel and Perpendicular Lines

7. **SYSTEMS OF LINEAR EQUATIONS**

- Solving systems of linear equations

B. SKILLS - Students will further develop these educational skills in this course.

1. Process Skills

- Defining terms, formulating and solving equations
- Organizing data and interpreting results

2. Communication Skills

- Oral and written through recording information, answering questions and expressing ideas

3. Reading Skills

- Through both oral and silent reading sessions

II. SUPPLIES NEEDED

1. Metric ruler (at least 15 cm)
2. Pencils (2)
3. Pens (1 red, 1 blue)
4. 1" course ring binder
5. Loose-leaf paper
6. 3 Dividers
7. a personal agenda (or calendar)
8. a scientific calculator
9. Graph paper

III. GENERAL CLASS RULES

1. It is expected that students will behave in a responsible considerate manner at all times.
2. Students are expected to work quietly on their own, unless instructed to do otherwise.
3. It is expected that students will have **fun** each and every class.

IV. NOTEBOOKS

1. Your notebook (3 ring binder) will contain 3 dividers and is required to be organized in the following manner:
 - i. Notes
 - ii. Assignments
 - iii. Tests & Quizzes

V. CLASS FORMAT

During the term we will be hosting 3 classes a week for Math 10. Tuesday, Wednesday and Friday will be your regular day where you will attend class on site. On occasion we will be going out into the community for a field study day where we can see Math in action and help to answer the question "When will I ever use this?" I will provide an approximate schedule of what topic will be covered in each class.

VI. ATTENDANCE & LATES

Students are recommended to attend every class. If you are absent please come see me when you return to get the work you missed while you were away.

VII. TESTS & QUIZZES

Quizzes will be given at the end of every chapter that will review topics that we have covered. This will allow me to pinpoint and identify difficult topics. Students will write a cumulative test at the end of the term.

To help you be more successful, and to better prepare you for the future, we expect you to write your term final exams only after successful completion of all assignments with a passing grade in the course.

There will only be 2 opportunities to write end of term exams. All students are expected to write on the 1st exam date, and the 2nd date will be available for students with previous permission or students in need of a re-write.

VIII. PROVINCIAL EXAMS

In June students will be expected to write a provincial exam for Math. I encourage you to check out the website below that gives the exam schedule as well as practice exam questions.

<https://www.bced.gov.bc.ca/exams/>

IX. HELP I DON'T GET MATH!

Please don't fret and worry! We are in this together! I will have office hours on Tuesday from 3:00 to 3:30 if you need extra help.

I have provided a few links below that may be of assistance where you can look up specific tutorials of the math topics we are covering. This will allow you to watch each topic several times until it becomes clear.

School District 43 put together a fabulous website for Math 10
<http://www.sd43.bc.ca/resources/parentresources/math/10/Pages/default.aspx>

Khan Academy
<https://www.khanacademy.org/math>

I am very excited to be a part of your learning journey! I look forward to "changing your life forever" in the upcoming year!

Lorrie Burnham