**Burnaby Mountain Secondary School**

### Mathematics 10 Course Outline

**Teacher: Ms. Kwon**

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## Description

This course is designed for students who are interested in pursuing a post-secondary and are planning on taking either Foundations 11 or Pre-calculus 11. In this course, we will develop a deep mathematical understanding by using logical reasoning, analytical thought, and creative thinking. You will take part in problem solving and investigating different mathematical concepts to develop your confidence and competence in mathematics.

# Course Content

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| Unit 1 | Right Angle Trigonometry – Ch. 2 |
| Unit 2 | Factors and Products – Ch. 3 |
| Unit 3 | Powers and Roots – Ch. 4 |
| Unit 4 | Functions and Relations – Ch. 5 |
| Unit 5 | Linear Functions – Ch. 6 |
| Unit 6 | Systems of Linear Equations – Ch. 7 |
| Unit 7 | Arithmetic Sequences  |
| Unit 8 | Financial Literacy (types of income, income tax, gross vs net pay) – non textbook materials |

## Required Materials

For the best results in this class, you will need to be prepared for each class.

* Pencil/Pen and eraser or white-out
* Scientific Calculator
* Binder with blank paper for note taking
* Textbook: *Mathematics 10*
* Ruler

**Expectations and Goals**

* **Be respectful:** This means that you choose your actions and words carefully. You try your best to help create a positive learning environment in the classroom.
* **Have a growth mindset:** This means you will not give up easily. It means that you know that you progress most when you are given a difficult task. You are not afraid of a challenge.
* **Take responsibility for your own learning**: this means you will come to class and be on time, complete homework on time, and take the initiative to ask questions when you have them.

**Absences**

* If you have to be away, please bring a note from home explaining your absence on your FIRST day back. No note means I assume you SKIPPED class!
* All quizzes and assessments should be written on the day that they are scheduled. If you have an excused absence, we can arrange for a time for you to do the test. However, if you skip a test, you will need to write it at a time I have given you. If you cannot make that time, you will be given an I on your report card.

**Cellphone Policy**

The number one priority in our classroom is your learning. Cellphones can be a distraction be good tools when used properly. Here is what our cellphone policy will be.

* No phones during class time with the exception of listening to music during independent work time with your phone away in your backpack. Please create a playlist for you to listen to in class so that you do not have to choose different songs.
* No videos or pictures of other classes should be taken at any time. This will result in your phone immediately being taken away.
* If students do not respect the rules (e.g. do not put their phones away when asked) the phone will be taken for the remainder of the class. If cell phone use continues to be a problem, a meeting will be set up with a parent.

**Homework / Extra Help:**

* Homework gives students the opportunity to further practice and master concepts learned in class. Consequently, homework will be assigned after every lesson. Sometimes you may have some time in class to finish the assignment but if you do not finish, you must do so in your own time.
* Homework will be checked through open book checkpoints. If a student is consistently not doing well on these checkpoints, parents will be contacted and a meeting will be set up if necessary.
* If you are having trouble with a concept, please take the initiative to get help**. I am available every Thursday after school until 5PM.** If you cannot make that time we could arrange another time for you to come in.

**Grading:**

The mathematics department uses cumulative grading.  Each term mark is a reflection of the students learning up until that point in the year.  The final grade is not an average of 3 terms, but rather a mark showing the student’s level of mastery throughout the entire course.

Below are the different types of assessments that students will encounter throughout the course.

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| --- | --- |
| Type | Percentage |
| Rich Tasks, Assignments, and Reflections  | 15% |
| Unit Assessments | 75% |
| Core Curriculum Assessment (usually in May) | 10%  |

The Core Curriculum Assessment will be held in May and its purpose is to give you an opportunity to review the key concepts you will need to know for the following year.

Each unit will count for roughly 10% of the student’s overall mark.

\*\* We will spend some time in class preparing for the Numeracy Assessment taking place in January. More details to come later on in the year! \*\*