**Math 12 Communication Plan**

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**Overview**:

Mathematics 12 is designed to provide students with the mathematical understandings and critical-thinking skills identified for post-secondary studies in programs that require an academic, pre-calculus or theoretical calculus mathematics credit. Mathematics 12 is a semester-long academic math program designed to provide a range of opportunities for additional support and enrichment. Mathematics 12 is the final level of high school mathematics and is designed to prepare you for university-level mathematics foundation courses.

The Math course consists of 4 units and a research project.

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| --- | --- | --- | --- |
| Unit | Time | Book Chapters | Description |
| Financial Math | 15-20 hours | 1 and 2 | * Investing Money * Borrowing Money |
| Logical Reasoning | 20-25 hours | 3 and 4 | * Set Theory and Logic * Counting Methods |
| Probability | 10-15 hours | 5 | * Probability |
| Relations and Functions | 35-40 hours | 6, 7 and 8 | * Polynomial Functions * Exponential and Logarithmic Functions * Sinusoidal Functions |
| Research Project | -ongoing throughout the term |  | * Students will choose a topic to do a research project on. |

## **Assessment**

This course will be evaluated on a 1-4 scale, as per the HRSB assessment policy. Students will be given a variety of opportunities to demonstrate their understanding of each outcome during the semester.

|  |  |
| --- | --- |
| **1** | Limited knowledge and understanding of the content and concepts. Limited application of related skills |
| **2** | Developing knowledge and understanding of content and concepts. Developing in the application of the related skills |
| **3** | Competent knowledge and understanding of content and concepts. Appropriate application of the related skills |
| **4** | In-depth knowledge of content and concepts. Able to extend the application of related skills to a variety of contexts. |

The instructor will assign a 1-4 for each outcome relating to the assessment. The student’s overall mark will be based on an average of all marks received. This mark is subject to change.

This course will be evaluated by the following methods:

* In-class and take-home assignments
* Projects
* Labs and lab reports
* Article responses
* Quizzes, Tests and exam

**Creating a Positive Learning Environment:**

To maximize the opportunities for success it is important to:

* Be on time and prepared to learn. Being late for class is not acceptable
* Not use of cell phones, tablets, etc. during class time, unless specified
* Display proper classroom etiquette and participate in classroom activities
* Make efficient use of class time to complete required activities and assignments
* Ask questions and attend academic support whenever content is unclear
* Continuously review covered materials in preparation for periodic assessments
* Assume full responsibility for any or all missed class work or assessments. If you miss an assessment such as a test, you must write it the next day you are present
* Complete all assigned homework and attend academic support as needed
* Be respectful of peers, teachers, and the environment:
* Any incidence of cheating will not be tolerated in class.

Remember, you are in control of your education.  Your instructor is here to help guide you, but it is up to you to get the work done, show that you understand and work hard!

**For Parents/Guardians:**

Student reports are issued four times during the school year: November, February, April and June. Parent/teacher meetings will be held during the November and April reporting periods.

Please feel free to contact by email through PowerSchool or contact the school if you have any questions.