MATH396 - Grade 9

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**Overview:**

Welcome to Math 396! This course is designed to help prepare you for Grade 10 Math, which is a graduation requirement. While the core of the class remains the same as other grade 9 math courses, some concepts have been edited or altered to allow for more exploration of the key content areas. This should permit additional time for clarification of previous learned materials and extra practice of new topics.

**Course Topics:**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | Topic | % of Course |
| Term 1 |  | Algebra | 10 |
|  | Pythagorean Theorem and Exponent Laws | 10 |
|  | Polynomials & FOIL | 10 |
| Term 2 |  | Equations and Inequalities | 10 |
|  | Linear Relations | 15 |
| **Mid-Year Exam (February 4)** |
| Term 3  |  | Polygons | 10 |
|  | Surface Area & Volume | 10 |
|  | Missing Measures and Similar Figures | 5 |
|  | Probability | 10 |
|  | Statistics | 10 |
| **Final Exam** |

**Evaluation for Each Term Report:**

This chart shows how students will be evaluated on their term report card.

|  |  |  |
| --- | --- | --- |
| **Competency 1: (30%)****Solves a Situational Problem** | Situational Test | 30% |
| **Competency 2: (70%)****Mathematical Reasoning** | Workbook and Homework | 10% |
| Assignments & Quizzes | 20% |
| Tests | 40% |
| TOTAL | 100% |

**Final Mark Weightings:**

This table shows the weighting of the final mark for this course.

|  |  |  |  |
| --- | --- | --- | --- |
| **Term 1** | **Term 2** | **Term 3** | **Total** |
| 20% | 20% | Term Mark 20% | Final Exams 40% | 100% |

**Required Classroom Materials:**

|  |  |
| --- | --- |
| Binder & Paper | Pencil & eraser (NO PENS) |
| Ruler | Graph paper (recommended for term 2) |
| Agenda | Scientific calculator |

1. **Course notes**
* We recommend you keep notes in a binder or notebook.
* Homework will be done in class on loose leaf paper or on worksheets
* The purpose of the notebook is to maintain organization and to use as a reference throughout the year.
1. **Homework will be assigned most classes**.
* The goal of homework is to help prepare you for the following class and to provide practice.
* Homework will be completed in class. If it is not completed students will need to do the homework at home.
* Assignments will be both from the workbook and handouts. Full marks will be awarded if all questions are attempted by the review date. Students who are not finished will be assigned a Wednesday detention and given a remediation assignment. Upon completion, they will receive a mark of 60%.
1. **Quizzes will be given throughout the term (2-3 each term)**
* The goal of a quiz is for students to independently show the ability to apply new concepts.
* Quiz questions tend to be easy-medium in difficulty.
* Memory aids will be allowed for any quiz.
* Students may retake quizzes at lunch with 24 hours notice. The highest mark will count.
1. **Tests will be given out at the end of a topic (2-3 each term)**
* The goal of a test is for students to independently show mastery of concepts.
* Test questions tend to be medium-hard in difficulty.
* Memory aids will be allowed for all tests.
* Unverified absences on a test day may result in a score of zero.
* Extra time will be given at lunchtime. It is the students job to ask for extra help.
1. **Situational problems will be assigned throughout the year (1-2 each term)**
* The goal of a situational problem is to apply mathematical concepts in a unique scenario.
* Situational Problems are medium-hard in difficulty.
* Memory aids will be allowed for all situational problems.
* A situational problem will cover any material already learned, including multiple chapters.

Quizzes, tests, and situational problems may cover material already learned, including multiple chapters. Students are encouraged to have an ongoing memory aid through the year.

**All major tests and situational problems will be announced in class and posted on the board at least 1 week prior to test or situational. Lunchtime Math help is available everyday.**