



**Loyola High School**  
**Secondary 4 NS Math (Science Program)**

**Teacher:** Mr. C. Taddeo

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**Online Textbook and Resources:** Math-Help-Services (MHS) <http://math-help-services.org>

**Supplies:** 3-ring binder, duo-tang, loose leaf, graph paper, pencils, eraser, ruler, scientific calculator (non-graphing).

**Evaluation:** The final grade for the course will be calculated as follows: Term 1 → 20%  
 Term 2 → 20%  
 Term 3 → 60%

Competency 1 → 30%  
 "Solves a Situational Problem"

Competency 2 → 70%  
 "Uses Mathematical Reasoning → 70%

	Term 1	Term 2	Term 3
Homework/Assignments	10%	10%	10%
Quizzes	10%	10%	10%
Class Tests	50%	30%	50%
End of Term Evaluation	30%	20%	10%
Mid-Year Exam (Dec. 21 <sup>st</sup> )		30%	
Loyola Situational Problem Exam (TBD)			20%

\*June Exam → 50%\*

\*The NS 4 Mathematics Final Exam is a provincial exam provided by MEES. As a results, this exam will make up 50% of the students final grade for the course.\*

**Homework/Assignments:** Weekly evaluations based on topics covered in class.

**Quizzes:** Once or twice per week (time permitting) based on topics covered in class. No prior warning is required and calculators will not be permitted.

**Class Tests:** Based on topics covered during the term and must be completed in pencil. Scientific (non-graphing) calculators may be permitted during these tests.

Due to the fast paced nature and content of the course, students are required to review their notes on a daily basis and complete homework exercises to ensure they have understood the material presented to them. Students experiencing difficulty may attend tutorials (available times and location is posted on the course Moodle site) or by appointment. All grades will be posted on the course Moodle page also.

**Note:** Students wishing to take NS math in secondary V must have a minimum final grade of 75% in the course or register for the July NS IV Mathematics Supplemental Provincial exam.

### Class Conduct and Rules:

- Homework will be assigned weekly through MHS and/or in-class worksheets to re-enforce principles and concepts discussed in class. Students are responsible for completing all their work on time and may complete remedial assignments to improve their MHS grades.
- Students are also expected to complete 5 Assignments (posted on the course Moodle page) per term which must be submitted to the teacher on time. **NO LATE ASSIGNMENTS** will be accepted. Students who do not submit an assignment will receive a grade of 0%.
- If a student is absent for any quiz or class test because of an illness or unexpected reasons, **he must make arrangements to write the test on the first day back in school.** Otherwise, the student will receive a grade of 0%. Students who miss tests regularly will be asked to provide a doctors note upon return to class.
- Students are expected to complete weekly pop-quizzes in class **without** the use of a calculator. The purpose of these quizzes is to improve students mental mathematics skills and increase their “number sense” when problem solving. At the end of each term, the quiz with the lowest grade will be omitted.

### Course Content:

#### Algebraic Expressions

- Division of polynomials
- Factoring of polynomials
- Rational expressions

#### Functions

- Properties and parameters
- Linear and functions
- Quadratic functions
- Step functions

#### Analytical Geometry

- Distance between points
- Midpoint of a line
- Slope and intercepts
- Equation of a line
- Distance from a point to a line
- Inequalities

#### Systems

- System of 1<sup>st</sup> degree equations in two variables

- System of two equations:  
Linear and Quadratic

#### Triangles

- Angles and parallel lines
- Congruency and Similarity
- Similar figures
- Metric relations

#### Trigonometry

- Trigonometric relations
- Law of Sine and Cosine
- Area of a triangle

#### Equivalent Figures

- Area and volume of solids
- Equivalent figures/solids
- Comparison of Polygons and Solids

#### Statistics

- Two variable distribution
- Linear correlation
- Regression line

Any questions or concerns regarding these rules should be addressed to Mr. Carmine Taddeo as soon as possible. Thank you and the best of luck during this academic year.