**Our Lady of Lourdes Catholic High School**

**Course Overview**

**Course Title: Foundations of Mathematics**

**Course Code: MFM 2P1**

**Credit Value: 1**

**Teacher(s): Mr. P. Ryan**

Welcome to Mathematics class! I look forward to sharing an enjoyable and rewarding semester with you. Feel free to discuss any aspect of this course with me at any time.

**Course Description**:

This course enables students to consolidate their understanding of linear relations and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and hands-on activities. Students will develop and graph equations in analytic geometry; solve and apply linear systems using real-life examples; and explore and interpret graphs of quadratic relations. Students will investigate similar triangles, the trigonometry of right triangles, and the measurement of three-dimensional figures. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

**Catholicity:**

This course enables students to develop a confident and positive sense of self. Within the setting of a supportive and caring classroom community, the dignity and value of each student is respected and affirmed. Through their personal growth in reason, critical thinking and communication, students come to appreciate their mathematical ability as a God given gift. By sharing their abilities, students contribute to the good of others, in service to the classroom and school community.

**Course Contents**:

Unit 1: Review Skills

Unit 2: Similar Triangles

Unit 3: Trigonometry of Right Triangles

Unit 4: Algebra and Linear Equations

Unit 5: Linear Systems

Unit 6: Quadratic Relationships

Unit 7: Surface Area and Measurement

**Assessment and Evaluation**:

Culminating Activities 15%

Term Work 85%

 100%

The term work is further broken down as follows:

Knowledge/Understanding 30%

 Application 30%

 Communication 15%

 Thinking 25%

 100%

**General Information**:

* Every student is required to keep his/her notes organized in a three-ring binder.
* Students will be assigned out of class activities/ homework.
* Learning skills: good attendance, working independently, teamwork, organization, work habits, initiative, risk taking, perseverance, questioning and a love of learning are all essential to success in this course.
* A scientific calculator is required for this course. **Non-programmable, non-graphing** calculators are permitted on quizzes, tests and the final exam.
* Pencil must be used for all tests and quizzes.

**Extra Help:**

Do not wait for minor problems to become major concerns before seeking help.

Extra help is available at lunch. Outside of scheduled help time, students may make an appointment with me as necessary.

**Missed Assignments/Tests, Cheating, Plagiarism, etc**

Students and parents are asked to review the Wellington Catholic District Secondary Schools Policies regarding missed tests and assignments, cheating, plagiarism, etc.

**Parents/Guardians: If, at any time you have questions or concerns please communicate with me by phone or e-mail. I may be contacted by e-mail (****pryan@wellingtoncdsb.ca****) or phone (519-836-2170 ext. 337)**

My signature below indicates that I have read and understood the MFM 2P1 course overview.

Student: Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/Guardian: Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_