

# MPM 2D: Principles of Mathematics, Grade 10



## Syllabus

This course enables students to broaden their understanding of relationships and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and abstract reasoning. Students will explore quadratic relationships and their applications; solve and apply linear systems; verify properties of geometric figures using analytic geometry; and investigate the trigonometry of right and acute triangles. Students will reason mathematically as they solve multi-step problems and communicate their thinking. This course helps a Catholic school student to become a collaborative contributor who works effectively as an interdependent team member. Students will apply Christian values to pose and solve problems, to make logical decisions, and to become critical thinkers who share their abilities for the benefit of all in their classroom and school community.

*It is strongly recommended that students choosing this course have achieved a final grade of 70% or more in Grade 9 Mathematics (MTH 1W).*

## Units

1. Linear Systems & Analytic Geometry
2. Quadratics Part 1
3. Quadratics Part 2
4. Similar Triangles & Trigonometry

## Textbooks

Principles of Mathematics 10, Nelson, 2010.

## Recommended Materials

Notebook, Pen, Pencil, Scientific Calculator, Geometry Set, Internet Access\*

## Evaluation

Knowledge / Understanding (K/U): 20%	Communication (C): 15%
Application, Thinking & Inquiry, Problem Solving (ATIPS): 35%	
Final Project (ISU): 10%	Final Exam: 20 %

## Classroom Policy / Assignment and Test Guideline

Full document available on the website (see below); outline on reverse of this page.

## Contact

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I am prep period 1 this semester; therefore, mornings are the best time to call.