

HOLY TRINITY CATHOLIC SECONDARY SCHOOL

COURSE OUTLINE



Name of Course/Course Code: MPM2D, Principles of Mathematics, Grade 10, Academic

Course Prerequisite: MPM1D, Principles of Mathematics, Grade 9, Academic

Course Description:

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 relations 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 and communicate their thinking as they solve multi-step problems.

Catholic Graduate Expectations:

The mind and its capacity for rational analysis are seen as gifts from the Creator to be used and enjoyed. The training of the intellect ensures that all knowledge can be scrutinized and the divine and the human more deeply understood. In this sense, knowledge is illuminated with the light of faith. In Catholic education, the commitment to maturity of mind and academic excellence is always in reference to God's revealed wisdom as to life's purpose and meaning.

Units of Study

Unit 1	<i>Analytic Geometry</i>
Unit 2	<i>Quadratic Relations</i>
Unit 3	<i>Trigonometry</i>

Evaluation

70%	30%
Knowledge/Understanding	Culminating Task
Thinking/Inquiry	15%
Communication	Exam
Application	15%

Course Resources Required:

Scientific Calculator Ruler Pencil Eraser Binder with paper Textbook (Provided)
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For a detailed course description of this course, please visit
<https://www.edu.gov.on.ca/eng/curriculum/secondary>