



ST. THOMAS AQUINAS SECONDARY SCHOOL

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We believe that each one, created in the image and likeness of God, is called by name into the Dufferin-Peel community to realize the Ontario Catholic School Graduate Expectations to the fullest extent as we all journey from the early years to vocation.

COURSE OUTLINE

Department Name:	Mathematics
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Course Name:	Grade 10 Academic Mathematics
Course Code and Section:	MPM2D1

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.

Prerequisite: MPM1D1 (9 Academic) with a minimum 65% strongly recommended.

Strand / Units	Catholic Graduate Expectations
1. Linear Systems 2. Analytic Geometry 3. Polynomials 4. Quadratic Functions 5. Quadratic Equations 6. Similarity and Trigonometry 7. More Trigonometry	The course will help students address the Ontario Catholic School Graduate Expectations that they adopt a holistic approach to life by integrating learning from various subject areas and experience, including ... 1) A reflective and creative thinker who evaluates situations & solves problems. 2) A self-directed, responsible learner who sets appropriate goals and priorities in school, work and personal life, and applies effective communication, decision-making, problem-solving, and time management skills. 3) A collaborative contributor who achieves excellence, originality, and integrity in one's own work and supports these qualities in the work of others. 4) A responsible citizen who accepts accountability for one's own actions.

Assessment and Evaluation:

Category Weightings	Weight
Knowledge/Understanding	30
Thinking	20
Application	30
Communication	20

Final Summative Assessments	Grade Distribution
Term Work	70
Course Culminating	10
Exam	20