

Henry Street High School

MPM 2D1

Principles of Mathematics, Grade 10, Academic

COURSE OUTLINE

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.

UNITS OF STUDY

- UNIT 1** – Systems of Linear Equations
- UNIT 2** – Analytic Geometry
- UNIT 3** – Graphs of Quadratic Relations
- UNIT 4** – Factoring Algebraic Expressions
- UNIT 5** – Quadratic Models
- UNIT 6** – Quadratic Equations
- UNIT 7** – Similar Triangles and Trigonometry
- UNIT 8** – Acute Triangle Trigonometry

ASSESSMENT AND EVALUATION

ASSESSMENT STRATEGIES

- ❖ Unit Tests
- ❖ Quizzes
- ❖ Journals
- ❖ Investigations
- ❖ Inquiries
- ❖ Projects
- ❖ Assignments
- ❖ Final Summary Booklet
- ❖ Final Examination

EVALUATION

- ❖ Termwork 70%
- ❖ Final Summative Evaluation 30%

OTHER INFORMATION

CLASS REQUIREMENTS

- ❖ Textbook: Principles of Mathematics 10, Nelson
- ❖ Equipment: Scientific calculator, 3-ring binder, lined paper, graph paper, pencil, coloured pens or pencils, eraser, ruler, geometry set