

Henry Street High School

MFM 2P1

Foundations of Mathematics, Grade 10, Applied

COURSE OUTLINE

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.

UNITS OF STUDY

UNIT 1 – Measurement and Similar Triangles

UNIT 2 – Right Angle Trigonometry

UNIT 3 – Linear Relations

UNIT 4 – Linear Equations

UNIT 5 – Linear Systems

UNIT 6 – Quadratic Relations

UNIT 7 – Quadratic Expressions

UNIT 8 – Representing Quadratic Relations

UNIT 9 – Volume and Surface Area

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: Foundations of Mathematics 10, McGraw-Hill Ryerson
- ❖ Equipment: Scientific calculator, 3-ring binder, lined paper, graph paper, pencil, coloured pens or pencils, eraser, ruler, geometry set