

Course Information Sheet

Mathematics: MFM 2P

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.

MFM 2P focusses on these key expectations from the Ministry of Education's curriculum:

- use their knowledge of ratio and proportion to investigate similar triangles and solve problems related to similarity;
- solve problems involving right triangles, using the primary trigonometric ratios and the Pythagorean theorem;
- solve problems involving the surface areas and volumes of three-dimensional figures, and use the imperial and metric systems of measurement;
- manipulate and solve algebraic equations, as needed to solve problems;
- graph a line and write the equation of a line from given information;
- solve systems of two linear equations, and solve related problems that arise from realistic situations;
- manipulate algebraic expressions, as needed to understand quadratic relations;
- identify characteristics of quadratic relations;
- solve problems by interpreting graphs of quadratic relations.

Your final mark will be calculated based on the Ministry of Education's Achievement Chart for the course as follows: Knowledge/Understanding: 40%; Thinking: 15%; Communication: 15%; Application: 30%

70% of the final mark will be based on work completed throughout the course, including tests, assignments, performance tasks and investigations. 30% will be based on the final evaluation (see details below.)

2007 - 2009 ~~~ 2007 - 2009 ~~~ 2007 - 2009 ~~~ 2007 - 2009 ~~~ 2007 - 2009 ~~~ 2007 - 2009

See the reverse side for rules & expectations.

RULE 1: You have the right to learn in the classroom!

RULE 2: You do not have the right to interfere with someone else trying to learn!

Expectations of Students:

1. Attend class regularly and promptly.
2. Have all necessary materials (textbooks, notebooks, pens, pencils, ruler, calculator, etc.) with you at the beginning of all classes.
3. Pay close attention when instruction is being given to the entire class.
4. Act in a manner which is considerate to classmates and the teacher. Be prepared to work quietly and diligently for the entire class period.
5. Maintain a complete, organized, and up-to-date notebook.
6. Seek extra help when you require it.
7. Have all homework assignments completed in time for the next class period. If you miss a class, **you** are responsible for getting the material and homework completed.
8. Inform the teacher **in advance** if you know that you will miss a test; you must make arrangements to write the test before your absence. Tests missed due to illness must be written on the first day the student returns to school at a time suitable to the teacher (usually at lunch or after school). Class time will not be given to write a test after the date. Tests written at times other than the usually scheduled time may be different from the regular test. In special cases, including prolonged illness, special arrangements may be made.

Failure to meet these expectations may result in detentions, temporary removal from the class, or referral to the office.

Evaluation:

Final evaluation may include performance on a culminating activity and a final exam.