

Our Lady of Lourdes Catholic High School

Course Overview

COURSE TITLE: Foundations of Mathematics (Applied Level)

COURSE CODE: MFM 2P1

CREDIT VALUE: 1.0

SCHOOL YEAR: 2013-2014

TEACHERS: Ms. K. Fischer and Ms. K. Sooley

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.

HOW THIS COURSE SUPPORTS THE ONTARIO CATHOLIC GRADUATE EXPECTATIONS:

This course enables students to develop a confident and positive sense of self. Within the setting of a supportive and caring classroom community, the dignity and value of each student is respected and affirmed. Through their personal growth in reason, critical thinking and communication, students come to appreciate their mathematical ability as a God given gift. By sharing their abilities, students contribute to the good of others, in service to the classroom and school community.

UNIT TITLES: (Time and Sequence):

Similar Triangles	15 periods
Trigonometry	15 periods
Equations of Lines	15 periods
Linear Systems	15 periods
Quadratic Relations	20 periods
Surface Area and Volume	10 periods

EVALUATION:

Evaluation is based on overall expectations of the course. These can be found at <http://www.edu.gov.on.ca/eng/curriculum/secondary/subjects.html>

COURSE GRADE WEIGHTING:		CATEGORY WEIGHTING:	
Term Work	70%	Knowledge and Understanding	30%
Final Assessment	30%	Application	30%
		Thinking	25%
		Communication	15%

Students will be assessed using a variety of techniques including: unit tests, performance tasks, assignments, investigations, culminating activities and a formal final exam.

LATE/MISSED EVALUATIONS:

Students are expected to complete and/or submit all assessment and evaluation activities on the date determined by the teacher. **The teacher (and/or principal when necessary) will decide if a late activity will be accepted for evaluation purposes or only for formative assessment with no level/mark recorded for grading.**

CHEATING AND PLAGIARISM:

Please see information regarding this topic in the Student Handbook.

GENERAL COURSE INFORMATION:

- Learning Skills: regular attendance, working independently, teamwork, organization, work habits, initiative, risk-taking, time-management, perseverance, questioning, curiosity and a love of learning are all essential to success in this course.
- A scientific calculator, 3-ring binder, lined paper, graph paper, and dividers are required.

APPROPRIATE USE OF GRAPHING CALCULATORS AND SMART RESPONSE REMOTES:

Students will be provided with graphing calculators and SMART Response remotes to be used at school only. In keeping with Board Policy on Telecommunications: Any malicious attempt to harm or destroy the calculator or remote is prohibited and may result in financial compensation and/or other disciplinary action consistent with the School Code of Behaviour, Board Policy and/or the Education Act. Likewise, **theft or loss, through negligence, of the calculator or remote will result in a cost replacement by the student/parents of \$150.00.**

PARENT/GUARDIAN AND STUDENT SIGNATURES:

(please sign and return the ½ sheet of paper that was distributed in class)

My signature below indicates that I have read and understood the course overview. I also understand the implications of the technology agreement outlined above.

Student Signature: _____

Date: _____

Parent / Guardian Signature: _____

Date: _____

If you have any questions or concerns, please contact the teacher at the school 519-836-2170.

Contact info can also be found on the department website: <http://ololmath.weebly.com>