

Our Lady of Lourdes Catholic High School

Course Overview

COURSE TITLE: Principles of Mathematics - Academic

COURSE CODE: MPM1D1

CREDIT VALUE: 1.0

SCHOOL YEAR: 2013 - 2014

TEACHER: Ms. K. Healy and Ms. K. Sooley

COURSE DESCRIPTION:

This course enables students to develop generalizations of mathematical ideas through exploration of applications, the effective use of technology, and abstract reasoning. Students will investigate relationships to develop equations of straight lines in analytic geometry, explore relationships between volume and surface area of objects in measurement, and apply extended algebra skills in problem solving. Students will engage in abstract extensions of core learning that will deepen their mathematical knowledge and enrich their understanding. This course helps students to meet Ontario Catholic Graduate Expectations by enabling each person to become a reflective and creative thinker who evaluates situations and solves problems reflectively and creatively.

HOW THIS COURSE SUPPORTS THE ONTARIO CATHOLIC GRADUATE EXPECTATIONS:

This course encourages the Catholic learner to develop his/her God-given gifts and abilities to promote growth toward personal responsibility in preparation for a chosen career path. Throughout this course, emphasis should be placed on moral, ethical, and realistic decision-making in an effort to build responsible citizenship. The classroom environment should instill a spirit of cooperation, rather than competition amongst students, and foster a collaborative sense of community. This course provides many opportunities for students to work effectively as interdependent team members and to acknowledge and respect others for their opinions. Please see the school handbook for a listing of the Ontario Catholic Graduate Expectations.

UNIT TITLES: (Time and Sequence)

Linear Relations	20 periods
Number Sense and Algebra	20 periods
Analytic Geometry	20 periods
Measurement and Geometry	20 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, and culminating activities.

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.

TEXT BOOK:

Principles of Mathematics 9 has a replacement value of **\$85**.

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.
- The administration of the Grade 9 Assessment of Mathematics will be held in January 2013 over two consecutive class periods. Students will respond to multiple choice questions and open response tasks. Please visit the EQAO web site for more information. (www.eqao.com)
- 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: _____