



Cameron Heights Collegiate Institute

301 Charles Street E., Kitchener, Ontario N2G 2P8 (519)-578-8330 www.chci.wrdsb.on.ca

Subject	Grade	Level	Code	Prerequisite
Mathematics	10	Applied	MFM2PI	Grade9

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.

Ministry Website

<http://www.edu.gov.on.ca/eng/curriculum/secondary/math910curr.pdf>

	Unit of Study	Overall Expectations (essential understandings)	Assessment
70%	Similar Triangles	<ul style="list-style-type: none"> Use their knowledge of ratio and proportion to investigate similar triangles and solve problems related to similarity 	<ul style="list-style-type: none"> Variety of formative assessments in the form of quizzes and assignments (1-2%) Summative unit test (~10%)
	Trigonometry	<ul style="list-style-type: none"> Solve problems involving right triangles, using the primary trigonometric ratios and the Pythagorean theorem 	<ul style="list-style-type: none"> Variety of formative assessments in the form of quizzes and assignments (1-2%) Summative unit test (~10%)
	Equations of Lines	<ul style="list-style-type: none"> Manipulate and solve algebraic equations, as needed to solve problems Graph a line and write the equation of a line. 	<ul style="list-style-type: none"> Variety of formative assessments in the form of quizzes and assignments (1-2%) Summative unit test (~10%)
	Linear Systems	<ul style="list-style-type: none"> Solve systems of two linear equations, and solve related problems that arise from realistic situations 	<ul style="list-style-type: none"> Variety of formative assessments in the form of quizzes and assignments (1-2%) Summative unit test (~10%)
	Quadratic Relations - Standard and Factored Form	<ul style="list-style-type: none"> Manipulate algebraic expressions, as needed to understand quadratic relations Identify characteristics of quadratic relations Solve problems by interpreting graphs quadratic relations 	<ul style="list-style-type: none"> Variety of formative assessments in the form of quizzes and assignments (1-2%) Summative unit test (~10%)
	Measurement	<ul style="list-style-type: none"> Solve problems involving the surface areas and volumes of three-dimensional figures, and use the imperial and metric systems of measurement 	<ul style="list-style-type: none"> Variety of formative assessments in the form of quizzes and assignments (1-2%) Summative unit test (~10%)
30%	Final Exam	<ul style="list-style-type: none"> Will include all of the overall expectations listed within the units of study 	<ul style="list-style-type: none"> Summative Final Exam (20%) Summative Project (10%)