



Course:	Mathematics 414		
Teacher:	H. Ahn & T. Gordon	Room:	201 & 157
E-mail:	hahn@emsb.qc.ca & tgordon@emsb.qc.ca		
Texts/workbooks:	In class notes		
Course description:	This course will give a better understanding of linear function as well as quadratic, exponential function, etc. Students will also learn about trigonometric ratios, scatter plot and contingency table.		

TERM 1 – 20%		
Topics covered		Competencies targeted
Points and segments in Cartesian plane, changes on the axes, slope of a segment, distance between two points, division point, equation of a line, parallel and perpendicular lines, systems of equations, particular cases of systems of equations,		C1: Solves a situational problem (30% of total) C2: Uses Mathematical Reasoning (70% of total)
Evaluation methods	Mark breakdown	Timeline
C1 – Learning evaluation situations C2 – Evaluation of applications, evaluation of mastery of concepts, in class worksheets	C1 100% LES C2 40% Quizzes 60% Tests	C1 – LES at the end of each chapter C2 – In class, worksheets almost every class, evaluation of mastery of concepts 1 to 3 times a chapter, evaluation of application at the end of each chapter, projects 1 to 2 a term

TERM 2 – 20%	
Topics covered	Competencies targeted
Real functions, families of functions and choosing a model, second-degree polynomial functions, exponential functions, step functions, periodic functions, piecewise functions Single-variable distribution, measure of dispersion: mean deviation, stem-and-leaf plot, measures of position: percentile, two-variable distributions, correlation, contingency table, correlation coefficient, regression line, interpreting a correlation, factors in interpreting the correlation	C1: Solves a situational problem (30% of total) C2: Uses Mathematical Reasoning (70% of total)

Evaluation methods	Mark breakdown	Timeline
C1 – Learning evaluation situations C2 – Evaluation of applications, evaluation of mastery of concepts, in class worksheets	C1 100% LES C2 40% Quizzes 60% Tests	C1 – LES at the end of each chapter C2 – In class, worksheets almost every class, evaluation of mastery of concepts 1 to 3 times a chapter, evaluation of application at the end of each chapter, projects 1 to 2 a term

TERM 3 – 60%		
Topics covered		Competencies targeted
Congruent/isometric triangles, similar triangles, metric relations in right triangles Trigonometric ratios, solving a right triangle, sine law, area of a triangle, Heron's formula		C1: Solves a situational problem (30% of total) C2: Uses Mathematical Reasoning (70% of total)
Evaluation methods	Mark breakdown	Timeline
C1 – Learning evaluation situations C2 – Evaluation of applications, evaluation of mastery of concepts, in class worksheets	C1 100% LES C2 40% Quizzes 60% Tests	C1 – LES at the end of each chapter C2 – In class, worksheets almost every class, evaluation of mastery of concepts 1 to 3 times a chapter, evaluation of application at the end of each chapter, projects 1 to 2 a term

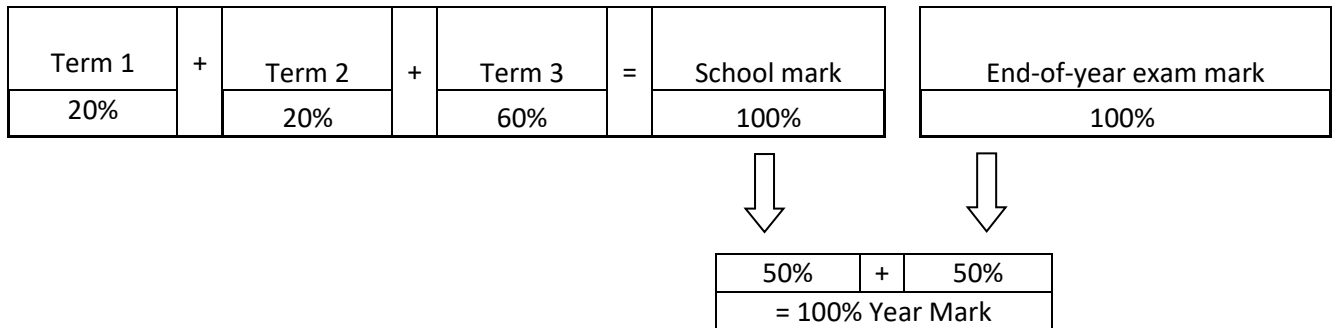
Online platform:	Google Classroom
Materials required for the course:	
Notebook, pencil, eraser, scientific calculator, ruler	

Remediation schedule:	
Ms. Ahn	Day 6 Lunch (11:40-12:10)
Mr. Gordon	Day 5 Morning (8:15-8:30)

Communication with parents/guardians:	Progress report/Report card schedule:
Email/progress reports/report cards	Progress report: October 2023
	Report cards: November 2024
	February 2025
	July 2025

Additional information and specifications:

Final results:



*Moderation affects Year Mark