

Course:	Mathematics 414		
Teacher:	H. Ahn & L.P. Gumbs	Room :	201 & 157
E-mail:	hahn@emsb.qc.ca & lgumbs@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,		C2: Uses Mathematical Reasoning (100% of total)
Evaluation methods	Mark breakdown	Timeline
C2 – Evaluation of applications, evaluation of mastery of concepts, in class worksheets	C2 40% Quizzes 60% Tests	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

TERM 2 - 20%

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

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table, correlation coefficient, regression correlation, factors in interpreting the co	,	
Evaluation methods	Mark breakdown	Timeline
C1 – Learning evaluation situations C2 – Evaluation of applications,	C1 100% LES	C1 – LES at the end of each chapter C2 – In class, worksheets almost every
evaluation of mastery of concepts, in class worksheets	C2 32% Quizzes 48% Tests 20% Midterm	class, evaluation of mastery of concepts 1 to 3 times a chapter, evaluation of application at the end of each chapter

TERM 3 – 60%			
Topics covered		Competencies targeted	
Congruent/isometric triangles, similar trelations in right triangles Trigonometric ratios, solving a right trial 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	

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

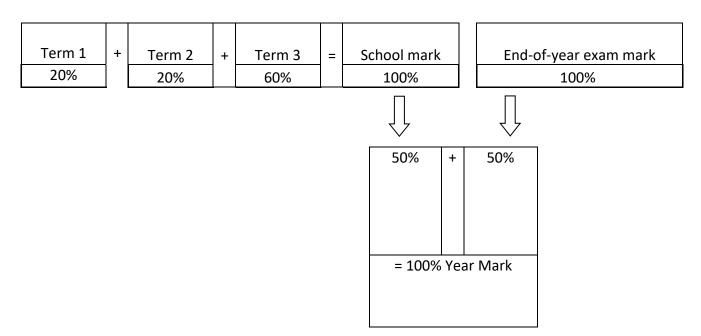
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Remediation schedule:		
Ms. Ahn	TBD	
Ms. Gumbs		
Day 2,4,7,8	Lunch 11:40-12:10	
Day 1,2,3,4,5	After-school 3:20-3:40	
Day 6	After-school 3:20-3:35	

Communication with parents/guardians:	Progress report/Report card schedule:	
Email/progress reports/report cards	Progress report:	October 2025
	Report cards:	November 2025 February 2026 July 2026

Additional information and specifications:

Final results:



^{*}Moderation affects Year Mark

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