

Mathematics





ELEMENTARY MATHEMATICS

COURSE	G3				G2				G1							
SUBJECTS OFFERED	 Elementary Math (Compulsory) Additional Math(SOE Option) Computing (SOE Option) 				Elementary Math (Compulsory)				Elementary Math (Compulsory)							
	Mathematics:				Mathematics:					Mathematics:						
ASSESSMENT	Paper	Duration	Description	Marks	Weighting	Paper	Duration	Description	Marks	Weighting	Paper	Duration	Description	Marks	Weighting	
FORMAT	Paper 1	2 hours 15 minutes	There will be about 26 short answer questions. Candidates are required to answer all questions.	90	50%	Paper 1 2 hour	Paper 1 2 hours	2 hours	There will be about 23 short answer questions. Candidates are required to answer all questions.	70	50%	_		There will be 11–13 short answer questions of 2–4 marks each, largely context-free and testing fundamental concepts and skills, followed by 2 longer		
	Paper 2	2 hours 15 minutes	There will be 9 to 10 questions of varying marks and lengths. The last question in this paper will focus specifically on applying mathematics to a real-world scenario.	90	50%				Section A: There will be 9 – 10 questions of varying marks and lengths. The last question in this section will focus specifically on applying mathematics to a real-world scenario. Candidates are required to answer all questions.			Paper 1	1 hour 30 minutes	questions of 6–8 marks, developed around a context. Candidates are required to answer all questions which will cover topics from the following strands Number and Algebra Geometry and Measurement	50	50%
			Candidates are required to answer all questions.			Paper 2	2 hours	Section B: There will be 2 questions of which candidates will be required to answer only one. The questions in this section will be based on the underlined content and there will be one question from the 'Geometry and Measurement' strand and one from the 'Statistics and Probability' strand. Each question carries the same number of marks, that is, either 7 or 8 marks.	70	50%	Paper 2	1 hour 30 minutes	There will be 11–13 short answer questions of 2–4 marks each, largely context-free and testing fundamental concepts and skills, followed by 2 longer questions of 6–8 marks, developed around a context. Candidates are required to answer all questions which will cover topics from the following strands Number and Algebra Statistics and Probability	50	50%	
2																



ADDITIONAL MATHEMATICS

COURSE	G3										
SUBJECTS OFFERED	 Elementary Math (Compulsory) Additional Math(SOE Option) Computing (SOE Option) 										
	Additional Mathematics:										
ASSESSMENT FORMAT		Paper	Duration	Description	Marks	Weighting					
		Paper 1	2 hours 15 minutes	There will be 12 – 14 questions of varying marks and lengths, up to 10 marks per question. Candidates are required to answer ALL questions.	90	50%					
		Paper 2	2 hours 15 minutes	There will be 9 – 11 questions of varying marks and lengths, up to 12 marks per question. Candidates are required to answer ALL questions.	90	50%					



COMPUTING

COURSE	G3									
SUBJECTS OFFERED	 Elementary Math (Compulsory) Additional Math(SOE Option) Computing (SOE Option) 									
ASSESSMENT FORMAT	Computi Paper	Format	Modules Assessed							
	1	Written	2 h	60%	80	A mixture of Multiple choice questions (single- and multiple-answer) Short-answer questions Matching questions Cloze passages Structured questions	All the five modules			
	2	Lab-based	2 h 30 m	40%	70	 One question on Spreadsheets Four to five questions on Programming 	Module 2: Algorithms and Programming Module 3: Spreadsheets			

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	Additional Math	Computing
CRITERIA, DESIRED DISPOSITIONS	 Strong interest in the relevance of Mathematics, curious about how Mathematics can be applied to authentic scenarios. Demonstrates strong aptitude in Mathematics Keen on exploring Mathematics or Mathematics-related course in post-secondary education 	 Strong interest in and enthusiasm for programming Good Pass in Sec 2 Mathematics & EL Based on academic merit and available vacancies
SKILLS & COMPETENCIES TO BE DEVELOPED	 Confidence and interest in relevance of Mathematics Critical thinking, reasoning, communication, application and metacognitive skills through a Mathematical approach to problem solving Connect ideas within Mathematics and to other disciplines, through application of Mathematical thinking and approaches 	 Apply logical reasoning and algorithmic thinking in analysing problem situations and developing solutions Construct simple programs through the use of appropriate programming language(s) Understand how and where information communications technology (ICT) is used in daily life Understand and explain the ethical, social and economic issues associated with the use of ICT



	Additional Math	Computing
POST-SECONDARY OPPORTUNITIES	Builds strong foundation for H2 Math in JC/MI, STEM & STEM-related Poly courses	 Builds strong foundation for Computing/IT related courses in JC or Poly Provides exposure and foundation for students interested in pursuing a career in data analytics/Fintech, etc.