

Year 12 Mathematics Standard 1 Scope & Sequence 2021 - 2022

STEM Faculty

Head Teacher: Mrs J. O'Neill

	1	2	3	4	5	6	7	8	9	10
TERM 4	Refe	er to Year 11 Sc	course ope and Sequ of for 2021	ence	Investment (N MS1-12-5, MS2 – Calculate ar – Develop awa – Justify think – Gain an und depreciate c	<i>I-12-9, MS1-12-</i> and compare the v areness of mech king and reasonir erstanding of cre over time rather t	ciations & Loa 10 alue of different t anisms to optimi ng mathematicall edit cards and rec han appreciate.	types of investme se a financial pos y. ducing balance lo	ents over a period sition. vans and that an a ed financial decis Assignment 20 %	sset may

	2	3	4	5	6	7	8	9	10	11	
	MEASUREMENT:			MEASUREMENT:			MEASUREMENT:				
	Scale Drawin	gs (MS-M5)		Rates (MS-M	14)		Right Angled Triangles (MS-M3)				
	MS1-12-3, MS1-12-4, MS1-12-9, MS1-12-10			MS1-12-3, MS1-12-9, MS1-12-10			MS1-12-3, MS1-12-4, MS1-12-9, MS1-12-10				
TERM 1	 Interpret and use scale drawings and similarity in solutions to practical problems involving measurement. Interpret and use house plans, designs and maps in the calculation of a range of measurements. Solve problems related to house plans, designs and maps. 			 Use rates to solve problems in practical contexts. Develop awareness of the use of rates in real world context. Solve problems in everyday situations related to health sciences, travel and finance. 			 Solve problems involving right-angled triangles in a range of practical contexts. Competently use Pythagoras' theorem and basic trigonometric ratios. Justify mathematical thinking and to communicate solutions. 				
									Modelling Task 25 %		



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STATISTICAL ANALYSIS: NETWORKS: Further Statistical Analysis (MS-S3) MS1-12-2, MS1-12-7, MS1-12-9, MS1-12-10 - Develop understanding of the purpose and process of statistical investigation, considering appropriate basic design principles. - Identify and use network terminology and to solve proble involving networks. - Develop understanding of the complex nature of questionnaire design and potential misconceptions in statistical representations and reasoning. - Identify the possible misrepresentation of information. - Interpret information from various sources. - Identify the possible misrepresentation of information. - Draw conclusions from relevant data to inform decision making. - Draw conclusions from relevant data to inform decision making. - Develop a logical sequence of tasks as well as a clear understanding of connections between people or items.	1	2	3	4	5	6	7	8	9	10
Investigation	 Further Statis MS1-12-2, MS1 Develop und appropriate Develop und misconcepti Interpret info Identify the 	tical Analysis -12-7, MS1-12-5 erstanding of the basic design prir erstanding of the ons in statistical ormation from va possible misrepr	<i>a, MS1-12-10</i> e purpose and pro- nciples. e complex nature representations rious sources. esentation of info	of questionnair and reasoning. rmation.	e design and pote	-	 Networks & F MS2-12-8, MS Identify and involving net Connect net Use network Represent m processes. Develop a log 	52-12-9, MS2-1, l use network ter etworks. tworks to practic ks techniques to networks graphic ogical sequence ing of connectio	2-10 minology and to s al situations. optimise practica cally to model dec of tasks as well a	solve problems al problems. ision making s a clear

	1	2	3	4	5	6	7	8	9	10
TERM 3	EXAMIN	IATIONS	 MS1-12-1, MS1 Graph and i Use simulta problems. Communica Use equation Use algebra 	ate solutions con ons to describe a	<i>9, MS1-12-10</i> ships. lations to solve pr	problems.	mark distribu – Building exa – Data analysi – Interpreting – Setting out of Students not sitt – Revision of o	into HSC exam: Ilysis of past pap ution mination skills is of trial exam re and breaking do of solutions to m ting the HSC exa course	oers, markers con esults wn questions aximise marks	
	Trial HSC Exam 30 %									