

Year 12 Mathematics Standard 2 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	Year 11 er to Year 11 Sc documer	course ope and Sequ of for 2021	lence	MEASUREME Non Right An MS2-12-3, MS - Solve proble - Justify math - Use rates an scale drawi - Develop aw such as hea	NT: gled Trigonom 2-12-4, MS2-12 ems involving rig hematical thinkin nd ratios to solve ngs. areness of the us alth sciences, ene	netry (MS-M6) 2-9, MS2-12-10 ht-angled and no ig and communic problems in prace se of rates and ra ergy and finance.	; Rates & Ratio on-right-angled tri rate solutions in a ctical contexts, in tios and solve pro	o (MS-M7) iangles in a varie in ordered and co cluding the interp oblems in everyda	ty of contexts. ncise fashion. oretation of ay situations,
									20 %	

	2	3	4	5	6	7	8	9	10	11		
	STATISTICAL	ANALYSIS:				FINANCIAL MATHEMATICS:						
	Bivariate Data	a (MS-S4); No	rmal Distributi	on (MS-S5)		Investments & Loans (MS-F4); Annuities (MS-F5)						
	MS2-12-2, MS	52-12-7, MS2-12	2- <i>9, MS2-12-10</i>			MS2-12-5, MS2-12-9, MS2-12-10						
TERM 1	 Identify, ana variables. Display, intervision of the second second	alyse and describ erpret and analys alysis processes the properties of measure to anal mally distributed ness of their solu	e associations be e statistical relati to make informe f the normal distri yse and compare data and make ju tions.	etween pairs of ne onships related t d decisions. bution. normally distribu udgements, justif	umerical o bivariate data. uted datasets. ying the	 Analyse financial situations, calculate the best options, & solve financial problems. Calculate & compare the value of different types of investments & shares over time. Gain an understanding of reducing balance loans & the depreciation of assets Understand the mathematical processes behind the accrual of annuities. Find ways to optimise the value of annuity investments and connect to real lif examples such as superannuation and home loans. 						
						Research Project 25 %						



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TERM 2	ALGEBRA: Simultaneous MS2-12-1, MS2 – Use simulta solving prace – Communica – Use equation practical pro- Use algebra of relationsl	5 Equations (N 2-12-6, MS2-12 neous linear equ tical problems. te solutions con ns to describe an oblems. ic or graphical re hips to predict fu	IS-A4.1) <i>I-9, MS2-12-10</i> nations in cisely. nd solve epresentations ture outcomes.	NETWORKS: Introduction MS2-12-8, MS – Identify and – Understand – Use networ – Use critical – Understand logistics.	to Networks (N 52-12-9, MS2-12 I use network terr the application o ks associated tec path analysis in t the application o	1S-N2); Critica - <i>10</i> ninology and to s of networks in the hniques to optim he optimisation c of critical path and	l Path Analysi olve problems in real world. ise practical prob of real-life proble alysis in project p	s (MS-N3) volving networks olems. ms. olanning, manage	ment and	Revision

	1	2	3	4	5	6	7	8	9	10	
			ALGEBRA:			REVISION / FINAL HSC PREPARATION					
TERM 3	EXAMIN	ATIONS	Non Linear Re MS2-12-1, MS2 - Graph and in - Communica - Use equation practical pro- Use algebra of relationsh	elationships (A 2-12-6, MS2-12- nterpret relations ite solutions cond ns to describe ar oblems. ic or graphical re nips to predict fut	A4.2) - <i>9, MS2-12-10</i> hips. cisely. nd solve presentations ture outcomes.	 In depth ana Building exa Data analys Interpreting Setting out of 	alysis of past pap amination skills is of trial exam re and breaking do of solutions in or	pers, markers con esults wn questions der to maximise r	nments and mark narks	distribution	
	30 %										