

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	<p><i>Year 11 course</i> <i>Refer to Year 11 Scope and Sequence document for 2021</i></p>					<p>FINANCIAL MATHEMATICS: Investment (MS-F2); Depreciations & Loans (MS-F3) <i>MS1-12-5, MS1-12-9, MS1-12-10</i></p> <ul style="list-style-type: none">– Calculate and compare the value of different types of investments over a period of time.– Develop awareness of mechanisms to optimise a financial position.– Justify thinking and reasoning mathematically.– Gain an understanding of credit cards and reducing balance loans and that an asset may depreciate over time rather than appreciate.– Use understanding of credit and loans in order to make informed financial decisions.					
											Assignment 20 %

		2	3	4	5	6	7	8	9	10	11
TERM 1		MEASUREMENT: Scale Drawings (MS-M5) <i>MS1-12-3, MS1-12-4, MS1-12-9, MS1-12-10</i> – 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.			MEASUREMENT: Rates (MS-M4) <i>MS1-12-3, MS1-12-9, MS1-12-10</i> – 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.			MEASUREMENT: Right Angled Triangles (MS-M3) <i>MS1-12-3, MS1-12-4, MS1-12-9, MS1-12-10</i> – 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 %	

TERM 3	1	2	3	4	5	6	7	8	9	10
	EXAMINATIONS		ALGEBRA: Types of Relationships (MS-A3) <i>MS1-12-1, MS1-12-6, MS1-12-9, MS1-12-10</i> <ul style="list-style-type: none">Graph and interpret relationships. Use simultaneous linear equations to solve practical problems.Communicate solutions concisely.Use equations to describe and solve practical problems.Use algebraic or graphical representations of relationships to predict future outcomes.				REVISION / FINAL HSC PREPARATION Students opting into HSC exam: <ul style="list-style-type: none">In depth analysis of past papers, markers comments and mark distributionBuilding examination skillsData analysis of trial exam resultsInterpreting and breaking down questionsSetting out of solutions to maximise marks Students not sitting the HSC exam: <ul style="list-style-type: none">Revision of courseReal world investigations using previous topics			
			Trial HSC Exam 30 %							