

Scope and Sequence: Mathematics Advanced Year 12

Implementation for Year 12 from Term 4, 2020

		Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	
Term 4	<i>Topic</i>	Functions			Trigonometric Functions			Statistical Analysis				
	<i>Unit title</i>	Graphing techniques F2			Trigonometric functions and graphs T3			Data (grouped and ungrouped) and summary statistics S2.1		Bivariate data analysis S2.2		
		Assignment/investigation Due Term 1										
	<i>Outcomes</i>	MA12-1, MA12-9, MA12-10 Chapter 2			MA12-1, MA12-5, MA12-9, MA12-10 Chapter 4			MA12-8, MA12-9, MA12-10 Chapter 9 & 11				

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Term 1	<i>Topic</i>	Statistical Analysis				Calculus					
	<i>Unit title</i>	Continuous random variables S3.1		The normal distribution S3.2		Differentiation of trigonometry, exponential and logarithmic functions C2.1		Rules of differentiation C2.2		The first and second derivatives C3.1	
	<i>Outcomes</i>	MA12-8, MA12-9, MA12-10 Chapter 14				MA12-3, MA12-6, MA12-9, MA12-10 Chapter 5				MA12-3, MA12-6, MA12-9, MA12-10 Chapter 6	

		Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
Term 2	<i>Topic</i>	Calculus								Financial Mathematics	
	<i>Unit title</i>	Applications of the derivative C3.2		The anti-derivative C4.1		Areas and the definite integral C4.2				Modelling investments and loans M1.1	
	<i>Outcomes</i>	MA12-3, MA12-6, MA12-9, MA12-10 Chapter 6		MA12-3, MA12-7, MA12-9, MA12-10 Chapter 5 & 7		MA12-3, MA12-7, MA12-9, MA12-10 Chapter 5 & 7				MA12-2, MA12-4, MA12-9, MA12-10 Chapter 1	

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Term 3	<i>Topic</i>	Financial Mathematics			Financial Mathematics						
	<i>Unit title</i>	Arithmetic sequences and series M1.2		TRIAL HSC EXAMS		Geometric sequences and series M1.3			Financial applications of sequences and series M1.4		
	<i>Outcomes</i>	MA12-2, MA12-4, MA12-9, MA12-10 Chapter 1 & 12									

