

	2	3	4	5	6	7	8	9	10	11
TERM 1	FUNCTIONS: Working with Functions (MA-F1) <i>MA11-1, MA11-2, MA11-8, MA11-9</i> Mathematical Skills: <ul style="list-style-type: none">– Introduce students to the concept of a function and develop their knowledge of functions and their respective graphs.– Function notation is introduced, which is essential for describing the ideas of calculus.– Use mathematical language to describe functions, their properties, and respective graphs– Applying knowledge of functions to everyday problems and applications– Discover, recognise, and generalise connections between algebraic and graphical representations of the same expression– Describe interactions using both dependent and independent variables HSC Skills: <ul style="list-style-type: none">– <i>Effective study skills for mathematics</i>								CALCULUS: Introduction to Differentiation (MA-C1) <i>MA11-1, MA11-5, MA11-8, MA11-9</i>	
								Assignment & Quiz = 30 %		

	1	2	3	4	5	6	7	8	9	10
TERM 2	CALCULUS: Introduction to Differentiation (MA-C1) <i>MA11-1, MA11-5, MA11-8, MA11-9</i> Mathematical Skills: <ul style="list-style-type: none">– Development of the basic concepts upon which differential calculus is built– Algebraic manipulative skills necessary for the effective use of differential calculus– Develop an understanding of the concept of a derivative as a function that defines the rate of change of a given function– Derivatives of power functions are found and used to solve simple problems– Calculating gradients and equations of tangents and normals– Develop an understanding of derivatives as representations of rates of change HSC Skills: <ul style="list-style-type: none">– <i>Deconstructing multiple choice questions</i>– <i>Short response questions in timed conditions</i>						STATISTICAL ANALYSIS: Probability & Discrete Probability Distributions (MA-S1) <i>MA11-7, MA11-8, MA11-9</i> Mathematical Skills: <ul style="list-style-type: none">– Conditional probability and independence– Understand discrete random variables and their uses in modelling random processes involving chance– Use skills in probability, its language, and visual representations to solve practical problems– Understand probability distributions and associated statistical analysis methods and their use in modelling binomial events HSC Skills: <ul style="list-style-type: none">– <i>Recognising subject specific terminology in exam questions</i>			
						Investigation 30 %				

[illegible]