Turramurra High School - 2023 - Year 10 5.3/5.2+ - Scope and Sequence

												Term	1 2023	3							
	Week 2		V	Week 3		Week 4		V	Week 5		Week 6			Week 7	Week 8		Week 9	Wee	k 10	Weel	k 11
30/1	31/1		6/2			13/2		20/2		27/2		Tr	6/3		13/3	20/3		27/3		4/3	
		Topic 1: Algebraic Techniques		Techniques 10pic 2: Equation							Equati Polyn	Topic 2: Equations and Polynomials MA5.3 1WM, MA5.1.10		Topic 3: Trigonome	Topic 4: Rational Indices, Surds and Log			rds and Logari	ithms		
	x	MA5.3 1WM, MA5.3 2WM, MA5.3 3WM, MA5.3 5NA			3 5NA 10NA				15.3		3 2WM,	MA5.3 2W	MG, MA5.2 13MG, MA5.3 1WM, WM, MA5.3 3WM, MA5.3 15MG		MA5.3 1WM, MA5.3 2WM, MA5.3 3WM, MA5.3 6NA						
SDD 2	12 on	expressions, expand binomial products and factorise quadratic		ng Carni	Solve complex linear, quadratic, and simple cubic and rearranges literal equations. Investigate the concept of a polynomial and apply the four operations to polynomials and simple graphing					Athletics Carnival			 MA5.3 2WM, MA5.3 3WM, Review Trigonometry from Young the length of sides and size of a solving angles of elevation/dep bearings problems. Applies Pythagoras' theorem angles-trigonometric relationsh problems involving problems in dimensions. Solves problems in right-angusing the exact sine, cosine and for 30°, 45° and 60°. 		gles and ssion and nd right s to solve olving three d triangles	 Use integer Convert be Simplify ar fractional ind Logarithms Define loga and explain w Manipulate 					
								S		F	,		Т		F	S				F	,

							Term	2 2023							
	7	Veek 1	Week 2	Week 3	Week 4		Week 5 Week 6			Week 7		Week 8	Week 9)	Week 10
24/4	25/4	26/4	1/5			5//6				12/6	13/6	19/6		26/6	
			Topic 5	5: Non- Right Trigono	netry	Topic 6: Linear Relationships					Т	opic 7: Non-Line	ar Relati	onships	
	Day		MA5.3 1WM, M.	A5.3 2WM, MA5.3 3WM	, MA5.3 15MG	MA5.3 1W	VM, MA5.3 2WM, N	IA5.3 3WN	м, MA5.3 8NA	lay	MA5.1 7NA, MA5.2 10NA, MA5.3 1WM, MA5.3 2WM, MA5.3 3WM, MA5.3 9NA, MA5.3 10NA				
S.D.D.	Anzac	of digital technology • Determine the use ASTC	ologies. e possible acute and/o	r obtuse angle(s), given	Cartesian plane, and applies standard forms of the equation of a					cubics, exponen transformations. • Understands an	ial and logarithm	ic functio	nyperbolas, circles, ns and their a way of representing		
-							formulas.				-				

	Term 3 2023													
	Week 1	Week 2	Week 3	Week 4	Week 5		Week 6		Week 7	Week 8	Week 9	Week 10		
17/7	18/7	24/7	31/7	8//	14/8		21/8		28/8	4/9	11/9	18/9		
	Topic 8: Graphs of	Physical Phenomena	Topic 9: Simultaneous Eqns	Topic 10: Single Va Data Analysis (.	Topic 11: Data Analysis				Topic 12: Probability					
	MA5.3 1WM, MA5.3 2WI	M, MA5.3 3WM, MA5.3 4NA	MA5.2 15SP, MA5	MA5.2 1WM, MA5.2 3WM, MA5.2 15SP, MA5.2 16SP, MA5.3 1WM, MA5.3 2WM, MA5.3 19SP				MA5.2 1WM, MA5.2 2WM, MA5.2 3WM, MA5.1 13SP, MA5.2 17SF						
S. D. D.	graphs and equations simple rate problems • Draws, interprets a physical phenomena	he relationship between corresponding to nd analyses graphs of buld suit being done r and non-linear	Review solving simultaneous equations, using algebraic and graphical techniques. Solves simultaneous equations, where one equation is non-linear, using algebraic and graphical techniques, including the use of digital technologies.	Compare data display using mean, median anrange to describe and interpret numerical data in terms of location (ce and spread. Determine quartiles a interquartile range, Construct and interproplots and use them to compare data sets. Compare shapes of b plots to corresponding histograms and dot plot	d a sets ntre) and eet box	them to comp Investigate independent v Use scatter relationships Use information numerical dat line to describ Investigate	are data sets. and describe bivariable is time. plots to investig between two nu ation technologia a sets; where ap be the relationsh reports of studio	variate n ate and merical es to inv propriat ip, allow es in dig		estimate probabilities of events involving "and" or "or" • Interpret and use venn diagrams and two way tables. • List all outcomes for two-step experiments, with and without replacement, using tree diagrams or arrays; assign probabilities to outcomes and determine probabilities for events. • Describe the results of two- and three-step chance experiments, with and without replacement, assign probabilities to outcomes, and determines probabilities of events; investigate the concept of				

Week 1	Week 2	V	Veek 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
01/6	01/91	23/10	·	30/10	11/9	13/11	20/11	27/11	4/12	21/11
Topic 13: Fi	nancial Mathematics			Topic 14: Measure	ement	Topic 15: Functions		Topic 15: Functions continued	Topic 16: Geometry	
MA5.2 1WM, MA5.2 2	2WM, MA5.2 4NA, M	A5.1 5NA	MA5.3 1WM	I, MA5.3 2WM, MA5.3	13MG, MA5.3 14MG	MA5.3-1WM, MA5.3-3WM, MA5.3 12NA		MA5.3-1WM, MA5.3-3WM, MA5.3 12NA	· · · · · · · · · · · · · · · · · · ·	3 2WM, MA5.3 3WM 3 16MG
 Investigates ways of pay interest problems that invo Connects compound inte simple interest and establis compound interest. Solves problems involving depreciation. Solves equations arising formulae. 	lve buying on terms erest to repeated application when then uses the formula and compound interest and	ons of a for	pyramids, right Solves probright cones, sp Solve problevolumes.	lems involving the surfate cones, spheres and relems involving the volupheres and related compems involving similarity	lated composite solids. imes of right pyramids, osite solids.	Describe, interpret and sketch functions	Work Experience	Extension: Apply an understanding of polynomials to sketch a range of curves and describe the features of these curves from their equation.	arguments and formal	proofs. f quadrilaterals and