Turramurra High School - 2020 - Year 10 5.2 - Scope and Sequence

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	Week 1			Week 2	Week 3 Week 4 Week 5			Week 6	Week 7	Week 8	Week 9	Week 10	Week 11		
				Trigonometry	Algebraic Te	echniques and Equations	s (8 Lessons)		Measurement and Equations (10 lessons)				Financial Maths (12 Lessons)		
		Trig		MA5.2 1WM, MA5.2 2WM, MA5.2 13MG	MA5.2 1WM, I	MA5.2 2WM, MA5.2 3W	M, MA5.2 8NA	МА	5.2 1WM, MA5.2 2WM,	MA5.1 1WM, MA5.1 2WM, MA5.1 3WM, MA5.1 5NA, MA5.2 1WM, MA5.2 2WM, MA5. 2 4NA					
면 면 '이	Review trigonome try basics (finding an unknown side and angle) and build student skills in doing trigonome try in degrees and minutes.	Swimming Carnival	 Introduce students to reading and interpreting bearings (both compass and three-figure) and solving trigonometric problems involving bearings. Introduce students to two triangle problems. 	 Review simplifying all index laws) and solving Apply the four operation denominators and exterior Solve linear equation 	gebraic expressions (incl equations. ions to algebraic fractio nd to pronumeral denor s involving simple algebr	uding a review of basic ns with numerical ninators. aic fractions.	 Solve problems involv Solve problems involv Solve equations arisir 	ving surface area for a ra	nge of prisms, cylinders a nge of prisms, cylinders a into area, surface area a	and composite solids. nd composite solids. nd volume formulae.	 Investigates ways of and solves simple inter involve buying on term 	paying for an item est problems that s	Good Friday		
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Term 2

	Week 1	Week 2 Week 3		Week 4	Week 5	Week 6		Week 7 Week 8 Week 9				Week 10	
	Financial Maths (Continued) • Connects compound interest to repeated applications of simple interest.and establishes then uses the formula for compound interest.		Financ	ial Maths (Continued)		Financial Maths	Data Analysis (10 lessons)		Data Analysis (Cont)		nt)		
			 Solves problems involving compound interest and depreciation. Solves problems involving compound interest and depreciation. 			(Continued)			MA5.2 1WM, MA5.2 3WM, MA5.2 15SP, MA5.2 16		15SP, MA5.2 16SP		
S. D. D.					Semester 1 Assessment	• Solves equations arising from substitution into financial maths formulae.	 Review constructing and interpreting box plots and using them to compare data sets. Investigate and describe bivariate numerical data where the independent variable is time. 		• Use scatter plots between two num comment on relati	s to investigate and comr erical variables. Use scat ionships between two nu	nent on relationships ter plots to investigate a Imerical variables.	nd	Consolidation Week
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Term 3

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
		Linear and	l Non-Linear Relationshi	os (11 lessons)		Simult	aneous Equations (8 les	Probability (8 Lessons)		
		MA5.2 1WM	, MA5.2 3WM, MA5.2 9I	NA, MA5.2 10NA		MA5.2 1WM, M	IA5.2 2WM, MA5.2 3WN	MA5.2 1WM, MA5.2 2WM, MA5.2 3WM, MA5.1 13SP, MA5.2 17SP		
S. D. D.	 Review and build Introduce studen Graph and simple Connect algebrai 	on skills learnt in Year 9 ts to perpendicular lines non-linear relationship: c and graphical represer	to interpret and graph l and solve problems invo s (parabola, exponential ntations of simple non-lii	inear relationships. olving parallel and perper and circle) near relationships.	ndicular lines.	• Uses graphical and at l simultaneous equations.	east one analytical tech	nique to solve linear	 Calculates relative free or collected data to esti events involving "and" of Interpret and use ven way tables. List all outcomes for t with and without replace diagrams or arrays; assi outcomes and determin events. Describe the results of chance experiments, wii replacement, assign pro outcomes, and determin events; investigate the independence. Use the language of 'i 'knowing that' to invest statements and to identified 	quencies from given mate probabilities of or "or" n diagrams and two wo-step experiments, ement, using tree gn probabilities to be probabilities for f two- and three-step th and without ubabilities to nes probabilities of concept of f then', 'given', 'of', igate conditional cify common mistakes
									in interpreting such lang	guage
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Term 4

Week 1	Week 2	Week 3	Week 4 Week 5 Week 6			Week 7	Week 8	Week 9	Week 1	.0
Probability (Continued)			Quadratics Equations (8 Lessons) MA5.2 1WM, MA5.2 2WM, MA5.2 3WM, MA5.2 8NA				Properties of geometrical figures (5 Lessons) MA5.2 1WM, MA5.2 2WM, MA5.2 3WM, MA5.2 14MG			
	Semester 2 Consolidation	Semester 2 Assessment	 Solve simple quadratic (ACMNA241) Solve monic equation: 	c equations using a range	e of strategies	Work Experience	• Uses enlargement transformation to explain similarity and to develop the conditions for triangles to be similar (ACMMG220)			