Turramurra High School - 2023 - Year 10 5.2/5.1 - Scope and Sequence

									Term	1 2023					
		Week 2	Week 3	Week 4 Week 5 V			Veek	6	Week 7		Week 8	Week 9	Week 10	Week 11	
30/1	31/1		6/2	13/2	20/2		27/2		_	2/3		13/3	20/3	27/3	4/3
SDD 2		Topic 1: Algebraic Techniques	Topic 1: Algeb	raic Techniques and Eq	nic Techniques and Equations		Topic 2: Trigonometry		Тор	ic 2: Trigonon	etry	Topic 3: Measurement Surface Area & Volume & Equations			Equations
			MA5.2 1WM, M	(A5.2 2WM, MA5.2 3WM, 8NA	, MA5.2	MA5.2 1WM, MA5.2 2WM, MA5.2 13MG			MA5.2	2 1WM, MA5.2 MA5.2 13MG	2WM,	MA5.2 1WM, MA5.2 2WM, MA5.2 11MG, MA5.2 12MG			12MG
	11 & 1	Review simplifying algebraic expressions (including a review of basic index laws) and solving equations.	Apply the four open numerical denominators.	g algebraic expressions (in- lex laws) and solving equat- erations to algebraic fraction nators and extend to pronur- ons involving simple algeb	ns with	basics (finding unknown side angle) and buil skills in doing trigonometry in and minutes. * Introduce stureading and inter-	side and d build student doing etry in degrees ites. cee students to and interpreting (both compass -figure) and rigonometric		(finding a angle) an doing trig minutes. Introduce interpreti compass solving tri involving	rigonometry bas an unknown side d build student s gonometry in dea e students to reac ng bearings (bot and three-figure rigonometric pro g bearings.	and kills in grees and ling and h) and blems	Solve problems involvi Solve problems involvi Solve equations arising	mposite solids.		
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						Term	n 2 2023							
		Week 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	8/2	15/5	22/5	29/5	9/9		12/6	13/6	9/61		56/6
		Topic 4: Non-	Right Trigonometry		Topic 5: Line	ar & Non-Linear Rela	tionships		Topic 6:		Topic 6: Simultaneous	s		Topic 6: Simultaneous
	۸	3WM,	MA5.3 2WM, MA5.3 MA5.3 15MG			A5.2 3WM, MA5.2 9NA, I		MA5.2 1WM, MA5.2 2WM, MA5.2 3WM, MA5.2 8NA						MA5.2 1WM, MA5.2 2WM, MA5.2 3WM, MA5.2 8NA
S.D.D.	Anzac Day		osine and area rules for solve related problems.		Review and build on skills learnt in Year 9 to interpret and graph linear relationships. Introduce students to perpendicular lines and solve problems involving parallel and perpendicular lines.								Term 2 Assessment	Uses graphical and at least one analytical technique to solve linear
	An			Graph and simple non-li	near relationships (parab	ola, exponential and circle)			Queens	simultaneous equati	ions.		simultaneous equations.
				Connect algebraic and g	graphical representations	of simple non-linear relation	onships.							

							Term	3 2023									
Topic 7: Data Analysis Topic 8: Probability Topic 9: Financial Maths MA5.2 1WM, MA5.2 3WM, MA5.2 15SP, MA5.2 16SP Review constructing and interpreting box plots and use them to compare data sets Compare shapes of box plots to corresponding histograms and dot plots Investigate and describe bivariate numerical data where the independent variable is time Use scatter plots to investigate and comment on relationships between two numerical variables Calculates relative frequencies from given or collected data to estimate probabilities of events involving simple interest 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 of events. Describe the results of two- and three-step chance experiments, with and without replacement, using tree diagrams or arrays; assign probabilities to outcomes, and determines probabilities of events; investigate the concept of independence. Use the language of 'if then', 'given', 'of', 'knowing that' to investigate conditional		Week 1	Week 2	Week 3	Week	4	Week 5	Week 6	Week 7		Week 8		Week 9		Week 10		
MA5.2 IWM, MA5.2 3WM, MA5.2 1SP, MA5.2 1SP, MA5.2 1SP, MA5.2 1SP, MA5.2 1SP, MA5.2 1SP, MA5.2 1WM, MA5.2 3WM, MA5.1 13SP, MA5.2 1SP, MA5.2 1WM, MA5.1 3WM, MA5.1 5NA, MA MA5.2 2WM, MA5.2 4NA Solve problems involving simple interest 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 of events; investigate the concept of independence. Use the language of "if then", "given", 'of, "knowing that' to investigate conditional	17/7	18/7	24/7	31/7	2//8	14/8		21/8	28/8	6/4		11/9		18/9			
Review constructing and interpreting box plots and use them to compare data sets Compare shapes of box plots to corresponding histograms and dot plots Investigate and describe bivariate numerical data where the independent variable is time D. Use scatter plots to investigate and comment on relationships between two numerical variables MAS.2 1WM, MAS.2 3WM, MAS.2 17SP MAS.2 2WM, MAS.2 17SP MAS.2 2WM, MAS.2 17SP MAS.2 1WM, MAS.2 3WM, MAS.2 17SP MAS.2 1WM, MAS.2 3WM, MAS.2 17SP MAS.2 1WM, MAS.2 3WM, MAS.2 17SP MAS.2 1WM, MAS.2 1YSP MAS.2 WM, MAS.2 1YSP MAS.2 1WM, MAS.2 1YSP Compare shapes of box plots to corresponding histograms and two way tables. Solve problems involving simple interest Connect the compound interest not eximple the compound interest of the compound interest of the compound interest of		Topic 7: Data Analysis						Topic 8: Probability	7		Topic 9: Financial Maths						
Compare shapes of box plots to corresponding histograms and dot plots Investigate and describe bivariate numerical data where the independent variable is time D. Use scatter plots to investigate and comment on relationships between two numerical variables Describe the results of two- and three-step chance experiments, with and without replacement, using tree diagrams or arrays; assign probabilities to outcomes, and determines probabilities of events; investigate the concept of independence. Use the language of 'if then', 'given', 'of, 'knowing that' to investigate conditional Connect the compound interest formula to repeated application interest using appropriate digital technologies Solves problems involving compound interest and depreciation dependence. Solves equations arising from substitution into financial maths Solves equations arising from substitution into financial maths		MA	MA5.2 1WM, MA5.2 3WM, MA5.2 15SP, MA5.2 16SP					MA5.2 1WM, MA5.2 2WM, MA5.2 3WM, MA5.1 13SP, MA5.2 17SP						MA5.1 1WM. MA5.1 2WM, MA5.1 3WM, MA5.1 5NA, MA5.2 1WM MA5.2 2WM, MA5.2 4NA			
	D.	Compare shapes of b Investigate and descr Use scatter plots to in	ox plots to corresponding	g histograms and dot plots	s nt variable is time	involving "and" of Interpret and use List all outcomes diagrams or array Describe the resureplacement, assinvestigate the course the language	or "or" venn diagrams and for two-step expenses; assign probabilities to proceed of independent of the concept of independent of the concept	d two way tables. riments, with and with- ities to outcomes and d ee-step chance experin outcomes, and determ ence. ven', 'of', 'knowing that'	out replacement, using tree etermine probabilities for e nents, with and without ines probabilities of events;	vents.	Connect the cointerest using a	ompound inter appropriate dig ns involving c	rest formula to r gital technologic	est and depre	eciation.		

				Term	4 2023					
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6 Week 7		Week 8	Week 9	Week 10	
9/10			30/10		20/11		27/11	4/12	11/12	
Topic 10: Algebra- binomial expansions		Topic 11: Quad	ratic Equations		Topic 12:	: Networks				
MA5.2 1WM, MA5.2	3WM, MA5.2 6NA	MA5.2-1WM, MA5.2-2W 2-8			MA5.2 1WM	1, MA5.2 2WM		Prep for Year 11 - review algebra and othe		
Expand binomial products and factorise monic quadratic expressions using a variety of strategies		Solve simple quadratic eq strategies. Review solving		Semester 2 Assessment	Examine the basics of ne terminology used.	etworks and the	Work Experience	important content, financial mathemati measurement		
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