Turramurra High School - 2021-Year 9 5.3/5.2+ - Scope and Sequence

Term 1 - Monday, 1st February to Thursday, 1st April

V	Neek	1			Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10		
	27/1	28/1	29/1	1/2	3/2	8/2	15/2	2/22	1/3	8/3	15/3	22/3	29/3		
						Topic 1: Algebraic Tecl	iniques and Equations	1 (5.3)	To	pic 2: Measurement 1 (:	Topic 3: Geometry 1				
			5	_		MA5.2 1WM, MA5.2 3V MA5.3 1WM, M	VM, MA5.2 6NA, MA5.2 8 A5.3 5NA, MA5.3 7NA	BNA,	MA5.1 1WM, MA5.1 2W 2 11N	M, MA5.2 1WM, MA5.2 2 MG, MA5.2 12MG, MA5.2	2WM, MA5.1 8MG, MA5. 8NA	MA5.2 1WM, MA5.2 2WM,			
olidays		2	senior:	Carniva	Apply the four ope nvolving fractions a	rations to the the simplificand expansions with numeri	tion of algebraic expressio ical denominators	ns including those	 Consolidate and build on perimeter, area and volum Coloulate and solves proj 	the concepts from stage 4 e.	of Pythagoras' Theorem,	•Establish results for interior and exterior			
ool he	SDD 1	SDD	Yr 7 &	ming (Perform binomial e	expansions			 Calculate and solves pro- surface area of right prism Solve problems involving 	s and cylinders. g the volume of a range of	prisms, cylinders and	 Apply logic and reason numerical problems inv 	ing to solve simple olving plane shapes		
Sc			Only	Swim	Solve linear, basic	quadratic and cubic equation	ons and linear inequations		composite solids. • Use significant figures as	another method of roundi	ng.				
					Solve simple litera	l equations			Solve equations arising f equations.	rom substitution into formi	ilae and rearranges literal				

	Term 2 - Monday, 19th April to Friday, 25th June																						
	Week 1 V			Veek 2		Week 3 Week 4			Week 5			Week 6		Week 7		Week 8		Week 9		9	Week 10		
	19/4	26/4				3/5	10/5		17/5	17/5		24/5	24/5		31/5		7/6		14/6			21/6	
		Topic 4: Simila Geometry	arity 2	Topic 5: Indices and Scientific Notation					Topic 6: Surds					Topic 7: Trigonometry							Topic 7: Trigonometry continued		
		MA5.1 3WM, MA5	5.1 11MG	IMG MA5.1 1WM, MA5.1 2WM, MA5.1 3WM, MA5.1 5NA, MA5.1 9MG, MA5.2 1WM, MA5.2 3WM, MA5.2 7NA				MA5.3 IWM, MA5.3 2WM, MA5.3 3WM, MA5.3 6NA				MA5 10M0	MA5.1 1WM, MA5.1 2WM, MA5.1 3WM, MA5.1 10MG, MA5.2 1WM, MA5.2 2WM, MA5.2 13MG						MA5.1 1WM, MA5.1 2WM, MA5.1 3WM, MA5.1 10MG, MA5.2 1WM, MA5.2 2WM,				
s.	1 1 5.	Use the enlargement transformation to exp similarity and develo conditions for triangle	plain op the	s Carniva	Extend and apply the index laws to variables, using positive- nteger indices and the zero index					Define rational and irrational numbers. Perform basic operations with surds and fractional				Use s sine, o right-	Use similarity to investigate the constancy of the sine, cosine and tangent ratios for a given angle in right-angled triangles					Birthday	Seme	iemester 1	Apply trigonometry to solve right-angled triangle problems
	D. 9 D. 9 1 1	Solve problems using scale factors in similar Use the enlargement transformations to ex similarity and to deve conditions for triangl similar	or triangles to be Apply index laws to algebraic expressions involving integer indices ms using ratio and in similar figures. regement ons to explain d to develop the or triangles to be Apply index indices Solve right-angled triangle protocoder and explain depression		ve right-ar problems ind angles	right-angled triangle roblems, including l angles of elevation and		Queens	Assessment	Solve right-angled triangle problems, including those involving direction and angles of elevation and depression													
	-					NAPLAN																	

Term 3 - Monday, 12th July to Friday, 17th September

	Week 1	Week 2	Week 3		Week 4	Week 5		Week 6	Week 7	Week 8	Week 9	Week 10		
12/7		19/7	26/7	2/8		8/6		16/8	23/8	30/8	6/9	13/9		
		Topic 8: Linear Relat	ionships		Topic 9: I	lates	Торі	c 10: Simultaneous Equations	Topic 11: Quadra	Topic 12: Single				
	M. M	A5.1 1WM, MA5.1 3WM, A5.2 1WM, MA5.2 3WM,	MA5.1 6NA, MA5.2 9NA		MA5.2 1WM, M. MA5.2 5	45.2 2WM, NA	MA5.2 1WM, MA5.2 2WM, MA5. 2 3WM, MA5.2 8NA			Analysis				
	Find the midpoint an plane using a range o	d gradient of a line segmer f strategies, including grap	tt (interval) on the Cartesian hing software		Recognise direct and proportion.	indirect	Solve line equations	ar simultaneous , using algebraic and	Factorise monic and non-	Factorise monic and non-monic quadratic expressions.				
	Find the distance betr range of strategies, ir	ween two points located or acluding graphing software	the Cartesian plane using a		Solve problems invol proportion.	ving direct	graphical digital tec	methods, including using hnologies.	Simplify algebraic fraction be performed.					
S. D.	Sketch linear graphs	using the coordinates of tw	vo points		Explore the relations	nip between			Multiply and divide algebraic					
D.	Solve problems invol	lving parallel lines			to simple rate probler	ns.			found.					
	Interpret and graph li equation of a straight	near relationships using the	e gradient-intercept form of	the										
	Solve problems invol	lving parallel and perpendi	cular lines											
			1											

	Term 4 - Monday, 4th October to Thursday, 16th December													
	Week 1 Week 2		Week 3	Week 4	Week 5	Week 6	Week 7		Week 8	Week 9	Week 2	10 Week 11		
4/10		11/10	18/10 25/10		1/11	8/11	15/11		22/11	22/11			13/12	
	Topic 12: Single V	ariable Data Analysis	Topic 13: Fin	ancial Maths		Topic 13: Financial Maths continued			Topic 14: Congru					
	MA5.1 1WM, MA5 MA5.1 12SP, MA5 MA5.2 15S MA5.3 2WM, MA	5.1 2WM, MA5.1 3WM, 5.2 1WM, MA5.2 3WM, P, MA5.3 1WM, 5.3 3WM, MA5.3 18SP	MA5.1 1WM, MA5.1 MA5.	I 2WM, MA5.1 3WM, 1 4NA		MA5.1 1WM, MA5.1 2WM, MA5.1 3WM, MA5.1 4NA		MA5.2 1WM, MA5.2 2WM, MA5.2 3WM, MA5.2 14MG, MA5.3 1WM, MA5.3 2WM, MA5.3 3WM, MA5.3 16MG					echniques	
Public Holiday	Compare data display and range to describe data sets in terms of 1 spread. Determine quartiles a Construct and interpr to compare data sets. Compare shapes of b histograms and dot p Investigate reports of and elsewhere for inf was obtained to estim medians.	vs using mean, median and interpret numerical ocation (centre) and ind interquartile range. et box plots and use them ox plots to corresponding lots. surveys in digital media ormation on how data hate population means and	Consolidate and extend th applying percentages. Solve problems involving Solve problems involving	e concepts involved in earning money. simple interest.	Assessment Week	Solve problems involving earning money. Solve problems involving simple interest.	Urban Challenge	Apply logical reasoning to more complex numerical problems involving plan shapes. Construct proofs involving congruent triangles. Prove and apply theorems and properties related to triangles. Extension: Circle Geometry (prove some of the properties of circles using congruency proofs).					If have time, start on Year 10 Algebraic Te	SDD