## Turramurra High School - 2021-Year 9 5.2/5.1 - Scope and Sequence

Term 1 - Mon	day, 1st Fe	bruary to Tł	nursday, 1st April
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Week 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 15/2 8/3		15/3	22/3	29/3				
					Topic 1: Ind Tec	Topic 1: Indices & Algebraic Techniques		t 1 Perimeter & Area site shapes	<b>Topic 3: E</b>	quations 1	Topic 4: Measurer	nent Surface Area	Topic 5: Similarity	
			s	Swimming Carnival	MA5.2 1WM, MA5 MA5.1 5N	5.2 2WM, MA5.2 3WM, A, MA5.2 8NA	MA5.1 1WM, MA5.	1 2WM, MA5.1 8MG	MA5.2-1WM	, MA5.2-8NA	MA5.1 1WM, MA5.1	MA5.1-1WM, MA5.1-2WM, MA5.1.3WM		
School holidays	SDD 1	SDD 2 Only Vr 7 & conjors	Only Yr 7 & senior		Swimming Carnival	Swimming Carnival	Apply the addii multiplication, and di algebraic expressions brackets     Fully factorise     Solve linear alg Extend and app variables, using posit the zero index.     Simplify algebr quotients using index	tion, subtraction, ivision operations to s, including the removal of algebraic expressions. gebraic equations. oly the index laws to ive-integer indices and raic products and laws.	Consolidate and build on of Pythagoras' Theorem, p volume.     Calculate and solves pro of composite figures.     Use significant figures a rounding.	t the concepts from stage 4 berimeter, area and blems involving the area s another method of	<ul> <li>Solve linear algebraic step, 2 step and equations</li> </ul>	equations, involving 1 with grouping symbols.	Review of nets of solids     Review types of solids in     is opposed to a pyramid.     Solve problems involvin     prisms.	n particular, what a prism g the surface areas of right

## Term 2 - Monday, 19th April to Friday, 25th June

	Week 1		/eek 2	2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9		Week 10	
10/4	+ /04	26/4			3/5	10/5	17/5	24/5	31/5	7/6	14/6		21/6	
	Topic 5 cont'd : Similarity				Тор	ic 6: Trigonometry	Торіс 7:	Polygons	Topic 8: Indices & Scientific Notation			Topic 8 cont'd : Indices & Scientific Notation		
	MA5.1-1WM, MA5.1-2WM, MA5.1-3WM, MA5.1-11MG				IWM, MA5.1-2WM,         MA5.1 IWM, MA5.1 2WM, MA5.1 3WM, MA5.1 10MG         MA5.2 1WM, MA5.2 2WM, MA5.2 3WM, 114MG								MA5.1-9MG, MA5.2- 1WM, MA5.2-3WM, MA5.2-7NA	
S. D D	Solve problems using scale factors in simil and scale drawings.	ms using ratio and in similar figures awings.		and arres arres a				Student can use logic and numerical problems invol Establish results for angles of polygons Apply logic and rea numerical problems invol	reasoning to solve ving plane shapes. interior and exterior soning to solve simple ving plane shapes	Student can interpret very small and very large units of measurement, use scientific notation and apply index laws to operate with algebraic expressions involving integer indices • Apply index laws to algebraic expressions involving integer indices	Queens Birthday	Semester 1 Assessment	MA5.2-7NA      Investigate very small and very large time scales and intervals     Express numbers in scientific notation	
					NAPLAN									

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

	Week 1 Week 2		Week 3	Week 4	Week 5	\ \	Veek 6	V	Veek 7	Week 8		Week 9	Week 10			
12/7		7/61	26/7	2/8	8/6	16/8		23/8		80/8		6/9	13/9			
	1	opic 9: Linear Relation	nships	Topic 10: Algebraic Fractions	Topic 11: Rates re	view	Topic 12: Single           Variable Data         Topic 13: Direct Proportion					Topic 14: Single Variable Data Analysis 2				
	MA5 MA5	.1 1WM, MA5.1 3WM, M .2 1WM, MA5.2 3WM, M	IA5.1 6NA, IA5.2 9NA	MA5.2 1WM, MA5.2 3WM, MA5.2 6NA	MA5.2 1WM, MA5.2	2WM	MA4-20	SP	MA5.2 1WM	I, MA5.2 2WM, M 5NA	A5.2-	MA5.1-1WM, MA5.1-2WM, MA5.1-3WM, MA5. 1-12SP, MA5.2-1WM, MA5.2-3WM, MA5.2-15SF				
	Find the midpoint an Cartesian plane using	d gradient of a line segmer g a range of strategies, incl	nt (interval) on the uding graphing software	Students can simplify algebraic expressions	Review rates concepts and graphs Students can recognise dir	l travel	<ul> <li>Review the of data</li> <li>Calculate</li> </ul>	ne types	Students can re proportion, and direct proportio	cognise direct and solve problems in	indirect volving	<ul> <li>Students can use qua compare sets of data, and</li> <li>Compare data displa</li> </ul>	rtiles and box plots to evaluates sources of data.			
	Find the distance bet a range of strategies,	ween two points located or including graphing softwa	n the Cartesian plane using re	Apply the four     operations to simple	indirect proportion, and so problems involving direct	olve	median, mode a for sets of data	and range and proportion; explore the relationship		rect p	and range to describe and interpret numerical data sets in terms of location (centre) and spread.					
S. D.	Sketch linear graphs	using the coordinates of tw	vo points	numerical denominators     Apply the four	<ul> <li>Solve problems invo direct proportion; explore</li> </ul>	olving the	in the context o	of data	corresponding	to simple rate prob	ems	<ul> <li>Determine quartiles</li> <li>Construct and interp to compare data sets.</li> </ul>	and interquartile range, oret box plots and use them			
D.	Solve problems invol	lving parallel lines	1: :	operations to algebraic fractions with	relationship between graph equations corresponding to						Compare shapes of box plots to corresponding histograms and dot plots.					
	of the equation of a s	traight line	e gradient-intercept form	denominator	rate problems							and elsewhere for informa obtained to estimate popu	ation on how data was lation means and medians			
	Solve problems invol	lving parallel and perpendi	cular lines													
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	Term 4 - Monday, 4th October to Thursday, 16th December																
	Week 1		Week 2		Week 3	Week 4		Week 5	Week 6	Weel	(7	Week 8	Week 9	Week 10		Week 11	
4/10		11/10		18/10		25/10	1/11		8/11	15/11		22/11	29/11	6/12		13/12	_
	Topic 14 cont'd: Sin Variable Data Analy 2	igle ysis	Topic 15: Percentag (Financial Maths	ges 5)	<b>Topic 16: I</b>	Topic 16: Financial Maths			Topic 16 cont'd: Financial Maths		Topic 17: Equations		Topic 18: Numbers of any magnitude				
Public Holiday Pite Pite Pite Pite Pite Pite Pite Pite Pite Pite Pite Pite	MA5.1-1WM, MA5 2WM, MA5.1-3WM MA5.1-12SP, MA5 1WM, MA5.2-3WM MA5.2-15SP	i.1- M, .2- M,	MA4-5NA, MA4-1W MA4-2WM, MA4-3V	VM, VM	MA5.1-1WM, MA5 MA	MA5.1-2WM, MA5.1-3WM, MA5.1-4NA			MA4-5NA, MA4-1WM, MA4-2WM, MA4-3WM		MA5.2 IV	WM, MA5.2 3WM,	MA5.1-1WM, MA5.1-2W 1-9MG	'M, MA5.1-3WM, M	A5.	echniques.	
	Students can use quartiles and box plof compare sets of data, evaluates sources of cata, evaluates sources of com- displays using mean, median and range to describe and interpret numerical data sets in terms of location (cer and spread. Determine quar and interquartile rang • Construct and interpret box plots an use them to compare- sets. • Compare shape box plots to corresponding	e d ststo ( and ( data. )) ( data. )) ( data. )) ( data. )) ( data.))) ( data.))) ( data.))) ( data.)))) ( data.)))))))))))))))))))))))))))))))))))	<ul> <li>Find percentage quantities and express one quantity as a percentage of another with and without the of digital technologie</li> <li>Solve problems involving the use of percentage increases; decreases, with and without the use of dig technologies</li> </ul>	es of s r, use es. g and gital	Students can solve fu problems involving e • Solve problems money. • Solve problems interest. • Solve equation: into formulae.	nancial mathematics arning money. s involving earning s involving simple s arising from substitution	A	sssessment Week	Students can solve financial mathematics problems involving earning money.     Solve problems involving earning money.     Solve problems involving simple interest.     Solve equations arising from substitution into formulae.	Urban Challenge	Solves alg	gebraic equations fractions.	Investigate very sma scales and intervals     Describe limits of ac	Il and very large time	>	If have time, start on Year 10 Algebraic T	SDD