

2021 Year 8 Scope and Sequence

Turrumurra High School - 2021 - Year 8 - Scope and Sequence

Term 1

[illegible]

Term 2

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
19/4		26/4	3/5	10/5	17/5	24/5	31/5	7/6	14/6	21/6
S. D. D.	Topic 4: Ratio and Rates	Athletics Carnival TBC	Topic 4: Ratio and Rates continued	Topic 5: Equations	Study Skills and Revision/Semester 1 Exams		Topic 5: Equations continued	Topic 6	Queens Birthday	Percentages and Financial Mathematics
	MA4 7NA, MA4 1WM, MA4 2WM, MA4 3WM			MA4 10NA, MA4 11NA, MA4 1WM, MA4 2WM, MA4 3WM			MA4 10NA, MA4 11NA, MA4 1WM, MA4 2WM, MA4 3WM			MA4 5NA, MA4 6NA, MA4 1WM, MA4 2WM, MA4 3WM
	Recognise and solve problems involving simple ratios		Solve simple linear equations	Solve simple linear equations			Find percentages of quantities and express one quantity as a percentage of another, with and without the use of digital technologies.			
	Solve a range of problems involving ratios and rates, with and without the use of digital technologies		Solve linear equations using algebraic techniques and verify solutions by substitution	Solve linear equations using algebraic techniques and verify solutions by substitution			Solve problems involving the use of percentages, including percentage increases and decreases, with and without the use of digital technologies <u>Investigate</u> and calculate the Goods and Services Tax (GST), with and without the use of digital technologies			
	Investigate, interpret and analyse graphs from authentic data		Solve simple quadratic equations	Solve simple quadratic equations			Investigate and calculate 'best buys', with and without the use of digital technologies Solve problems involving profit and loss, with and without the use of digital technologies.			
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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
12/7	19/7	26/7	2/8	9/8	16/8	23/8	30/8	6/9		13/9
S. D. D.	Topic 6: Percentages and Financial Mathematics continued A4 5NA, MA4 6NA, MA4 1WM, MA4 2WM, MA4 3WM	Topic 7: Linear Relationships MA4 11NA, MA4 1WM, MA4 3WM		Topic 8: Probability MA4 21SP, MA4 1WM, MA4 2WM, MA4 3WM		Topic 9: Data Collection and Representation and Single Variable Data MA4 19SP, MA4 20SP, MA4 1WM, MA4 2WM, MA4 3WM		Year 8 Camp		Alternative Assessment Week
		Create algebraic expressions and evaluate them by substituting a given value for each variable Plot linear relationships on the Cartesian plane, with and without the use of digital technologies Solve linear equations using graphical techniques		Describe events using language of 'at least', exclusive 'or' (A or B but not both), inclusive 'or' (A or B or both) and 'and' Represent events in two-way tables and Venn diagrams and solve related problems		Investigate techniques for collecting data, including census, sampling and observation Explore the practicalities and implications of obtaining data through sampling using a variety of investigative processes Identify and investigate issues involving numerical data collected from primary and secondary sources Construct and compare a range of data displays, including stem-and-leaf plots and dot plots Calculate mean, median, mode and range for sets of data and interpret these statistics in the context of data Investigate the effect of individual data values, including outliers, on the mean and median Describe and interpret data displays using mean, median and range Explore the variation of means and proportions of random samples drawn from the same population				
		2								

Term 4											
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 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	
Public Holiday	Topic 9: Data Collection and Representation and Single Variable Data MA4 19SP, MA4 20SP, MA4 1WM, MA4 2WM, MA4 3WM	Topic 10: Measurement MA4 12MG, MA4 13MG, MA4 14MG, MA4 1WM, MA4 2WM, MA4 3WM	Study Skills and Semester 2 Exam			Topic 10: Measurement continued MA4 12MG, MA4 13MG, MA4 14MG, MA4 1WM, MA4 2WM, MA4 3WM		Topic 11: Properties of Geometric Figures MA4 17MG, MA4 1WM, MA4 2WM, MA4 3WM			
						Use formulas to solve problems involving circumference Find areas of trapeziums, rhombuses and kites Investigate the relationship between features of circles, such as the area and the radius; use formulas to solve problems involving area Draw different views of prisms and solids formed from combinations of prisms Choose appropriate units of measurement for volume and convert from one unit to another Develop the formulas for the volumes of rectangular and triangular prisms and of prisms in general; use formulas to solve problems involving volume Calculate the volumes of cylinders and solve related problems		Use the properties of special triangles and quadrilaterals to solve simple numerical problems with appropriate reasoning Define congruence of plane shapes using transformations Develop the conditions for congruence of triangles Establish some of the properties of quadrilaterals using congruent triangles and angle properties, and solve related numerical problems using reasoning			
School Holidays (SDDs)											

- 1 School Photos
- 2 Maths Competition