

Turrumurra High School - 2021 - Year 10 5.2/5.1 - Scope and Sequence

Term 1 - Tuesday, 28th January to Thursday, 1st April

Week 1		Week 2		Week 3		Week 4		Week 5		Week 6		Week 7		Week 8		Week 9		Week 10		
School holidays	27/1	28/1	29/1	1/2	3/2	8/2	15/2	22/2	1/3	8/3	15/3	22/3	29/3							
	SDD 1	SDD 2	Yr 7, 11 & 12 only	Trigonometry	Topic 1: Trigonometry	Topic 2: Algebraic Techniques and Equations						Topic 3: Measurement Surface Area & Volume & Equations								
				MA5.2 1WM, MA5.2 2WM, MA5.2 13MG		MA5.2 1WM, MA5.2 2WM, MA5.2 3WM, MA5.2 8NA						MA5.2 1WM, MA5.2 2WM, MA5.2 11MG, MA5.2 12MG								
Review trigonometry basics (finding an unknown side and angle) and build student skills in doing trigonometry in degrees and minutes.				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 algebraic expressions (including a review of basic index laws) and solving equations. Apply the four operations to algebraic fractions with numerical denominators and extend to pronumeral denominators. Solve linear equations involving simple algebraic fractions.						Solve problems involving surface area for a range of prisms, cylinders and composite solids. Solve problems involving the volumes of a range of prisms, cylinders and composite solids. Solve equations arising from the substitution into area, surface area and volume formulae.								
				Swimming Carnival																
																			F	Good Friday

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

	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: Financial Maths		Topic 4: Financial Maths continued		Topic 5: Data Analysis					Queens Birthday	Topic 6: Linear & Non-Linear
	MA5.1 1WM, MA5.1 2WM, MA5.1 3WM, MA5.1 5NA, MA5.2 1WM, MA5.2 2WM, MA5.2 4NA		MA5.1 1WM, MA5.1 2WM, MA5.1 3WM, MA5.1 5NA, MA5.2 1WM, MA5.2 2WM, MA5.2 4NA		MA5.2 1WM, MA5.2 3WM, MA5.2 15SP, MA5.2 16SP						
	Solve problems involving simple interest Connect the compound interest formula to repeated applications of simple interest using appropriate digital technologies Solves problems involving compound interest and depreciation. Solves equations arising from substitution into financial maths formulae.		Solve problems involving simple interest Connect the compound interest formula to repeated applications of simple interest using appropriate digital technologies Solves problems involving compound interest and depreciation. Solves equations arising from substitution into financial maths formulae.		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						see information in term 3
			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	9/8	16/8	23/8	30/8	6/9	13/9
Topic 6: Linear & Non-Linear Relationships continued			Topic 7: Simultaneous Equations			Topic 8: Probability			Consolidation time
MA5.2 1WM, MA5.2 3WM, MA5.2 9NA, MA5.2 10NA			MA5.2 1WM, MA5.2 2WM, MA5.2 3WM, MA5.2 8NA			MA5.2 1WM, MA5.2 2WM, MA5.2 3WM, MA5.1 13SP, MA5.2 17SP			
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. Graph and simple non-linear relationships (parabola, exponential and circle) Connect algebraic and graphical representations of simple non-linear relationships.			Uses graphical and at least one analytical technique to solve linear simultaneous equations.			Calculates relative frequencies from given or collected data to estimate probabilities of events 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 for events. Describe the results of two- and three-step chance experiments, with and without replacement, 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 statements and to identify common mistakes in interpreting such language			
2	3	4							

Term 4 - Monday, 4th October to Thursday, 17th December

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
Topic 9: Algebra- binomial expansions		Topic 10: Quadratic Equations			Semester 2 Assessment	Topic 11: Congruence		Work Experience	Prep for Year 11 - review algebra and other important content	
MA5.2 1WM, MA5.2 3WM, MA5.2 6NA		MA5.2-1WM, MA5.2-2WM, MA5.2-3WM, MA5.2-8NA				MA5.2 1WM, MA5.2 2WM				
Expand binomial products and factorise monic quadratic expressions using a variety of strategies		Solve simple quadratic equations using a range of strategies				Uses minimum conditions to prove triangles are congruent. Formulate proofs involving congruent triangles. Apply logical reasoning, including the use of congruence, to proofs and numerical exercises involving plane shapes.				
Public Holiday										SDD