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Turramurra High School - 2024 - Year 9 - Scope and Sequence

Term 1 2024

	Week 1B				Week 2A		Week 3B	Week 4A	Week 5B	Week 6A		Week 7B	Week 8A	Week 9B		Week 10A		Week 11B

Week 1B (29/1, 30/1, 31/1) — SDD 1, SDD 2, Year 7, 11, 12 only

5/2 — **Topic 1: Geometric Representations**
- Core Outcomes: MAO-WM-01, MA5-GEO-C-01
- Path Outcomes: MA5-GEO-P-01, MA5-NET-P-01
- Life skills outcomes: MALS-GEO-01

Core overview:
- Identify and describe the properties of similar figures
- Solve problems using ratio and scale factors in similar figures

12/2 — Swimming Carnival

Week 3B–6A (19/2, 26/2, 4/3) — **Topic 1: Geometric Representations (5 weeks - 16 lessons including topic test)**
- Core Outcomes: MAO-WM-01, MA5-GEO-C-01
- Path Outcomes: MA5-GEO-P-01, MA5-NET-P-01
- Life skills outcomes: MALS-GEO-01

Core overview:
- Identify and describe the properties of similar figures
- Solve problems using ratio and scale factors in similar figures

Path overview:
- Develop and apply the minimum conditions for triangles to be similar
- Establish and apply properties of similar shapes and solids
- Examine and describe a graph/network

Life-Skills overview:
- explores 2-dimensional shapes and 3-dimensional objects.

Week 7B–9B (11/3, 18/3, 25/3) — **Topic 2: Working With Triangles (6 weeks - 20 lessons including topic test**
- Core Outcomes: MAO-WM-01, MA5-TRG-C-01, MA5-LIN-C-01, MA5-MAG-C-01
- Path Outcomes: MA5-LIN-P-01, MA5-IND-P-02
- Life skills outcomes: MALS-POS-01

Core Overview:
- Demonstrate and explain the constancy of trigonometric ratios for a given angle in right-angled triangles
- Apply trigonometry to solve right-angled triangle problems
- Find the midpoint and gradient of a line segment (interval) and the distance between 2 points on a Cartesian plane
- Estimate and round numbers to a specified degree of accuracy

Path Overview:
- Apply formulas to find the midpoint and gradient/slope of an interval and the distance between 2 points located on the Cartesian plane
- Describe surds

29/3 — GOOD FRIDAY / EASTER MONDAY

1/4 — Term 1 Assessment Wednesday 3rd April

Week 10A (8/4) — **Topic 2: continued**
- Core Outcomes: MAO-WM-01, MA5-TRG-C-01, MA5-LIN-C-01, MA5-MAG-C-01
- Path Outcomes: MA5-LIN-P-01, MA5-IND-P-02
- Life skills outcomes: MALS-POS-01

Week 11B — Athletics Carnival

NAPLAN WINDOW 13th - 25th

Term 2 2024

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6		Week 7	Week 8	Week 9	Week 10
	30/4	6/5	13/5	20/5	27/5	3/6	10/6 11/6	17/6	24/6	1/7	

29/4 — S.D.D.

Topic 3: 3D Spatial relations:
Unit Title: Prisms & Cylinders (20 lessons including testing)

Core Outcomes: MAO-WM-01, MA5-ARE-C-01, MA5-VOL-C-01, MA5-ALG-C-01, MA5-EQU-C-01, MA5-MAG-C-01

Path Outcomes: MA5-ARE-P-01, MA5-VOL-P-01, MA5-EQU-P-02

Life skills outcomes: MALS-ADS-01, MALS-MDI-01, MALS-PAT-01, MALS-VOL-01, MALS-ARE-01

Core Content:
- Solve problems involving areas and surface areas
- Develop and apply the formula for surface areas of cylinders
- Solve problems involving surface areas of cylinders and related composite solids
- Solve problems involving composite solids consisting of right prisms and cylinders
- Apply the distributive law to the expansion of algebraic expressions
- Solve linear equations involving up to 3 steps
- Solve linear equations arising from word problems and substitution into formulas
- Identify and describe very small and very large measurements
- Find absolute and percentage error
- Estimate and round numbers to a specific degree of accuracy

Path Content:
- Solve problems involving surface areas
- Solve problems involving volumes
- Solve linear equations involving algebraic fractions and equations of more than 3 steps
- Rearrange literal equations

Queens Birthday

Term 2 Assessment Thursday 13th June

Topic 4: Multiplicative relationships
Unit Title: Index laws (lessons including testing)

Core Outcomes: MA5-IND-C-01, MA5-MAG-C-01

Path Outcomes: MA5-IND-P-01, MA5-IND-P-02

Life skills Outcomes: MALS-MDI-01, MALS-PAT-01

Core content:
- Extend and apply the index laws to variables, using positive-integer indices and the zero index
- Simplify algebraic products and quotients using index laws
- Apply index laws to numerical expressions with negative-integer indices
- Express numbers in scientific notation

Path content:
- Apply index laws to algebraic expressions involving negative-integer indices
- Describe and use fractional indices

Term 3 2024

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
	22/7 · 23/7	29/7	5/8	12/8	19/8	26/8	2/9	9/9	16/9	23/9

S. D. D.	**Topic 5: Algebra & Financial Unit Title: Financial Mathematics (12 lessons including testing)**	**Topic 6: Linear Relationships Unit Title: Constant rates of change (16 lessons including testing)**
	Core Outcomes: MAO-WM-01, MA5-FIN-C-01, MA5-EQU-C-01	Core Outcomes: MAO-WM-01, MA5-EQU-C-01, MA5-LIN-C-01, MA5-LIN-C-02
	Path Outcomes: no path outcomes	Path Outcomes: MA5-LIN-P-01, MA5-EQU-P-02, MA5-RAT-P-01
	Life skills outcomes: MALS-FIN-01, MALS-FIN-02	Life skills outcomes: MALS-ADS-01, MALS-MDI-01, MALS-POS-01

- Solve problems involving earning money, simple interest and spending money - Solve linear equations involving up to 3 steps - Solve linear equations arising from word problems and substitution into formulas	Core content: - Solve linear equations arising from word problems and substitution into formulas - Recognise and graph equations - Examine parallel, horizontal and vertical lines - Examine the gradient/slope-intercept form - Find the equations of parallel and perpendicular lines

Path content:
- Use various forms of the equation of a straight line
- Solve linear simultaneous equations, both algebraically and graphically
- Identify and describe problems and graphs involving direct variation
- Solve problems involving direct variation

Term 4 2024

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	
	14/10	21/10	28/10	4/11	11/11	18/11	25/11	2/12	9/12	16/12	19/12 20/12

Topic 7: Uncertainty **Unit Title: Making Predictions (16 lessons including testing)**	**Topic 8: Uncertainty** **Unit Title: Making Decisions (15 lessons including testing)**	
Core Outcomes: MAO-WM-01, MA5-PRO-C-01	Core Outcomes: MAO-WM-01, MA5-DAT-C-01	
Path Outcomes: MA5-PRO-P-01	Path Outcomes: no path outcomes	
Life skills outcomes: MALS-PRO-01	Life skills outcomes: MALS-DAT-02	

Core content: • Describe multistage chance experiments involving independent and dependent events • Solve problems for multistage chance experiments • Design and use simulations to model and examine situations involving probability	Path content: • Solve problems involving Venn diagrams and 2-way tables • Use the language, 'if…then', 'given', 'of' and 'knowing that', to examine conditional statements and identify common mistakes in interpreting the language • Describe mutually and non-mutually exclusive events using specific language and calculate related probabilities	Core content: • Standard deviation as a measure of spread • Determine quartiles and interquartile range • Represent datasets using box plots and use them to compare datasets	SDD

https://sites.google.com/education.nsw.gov.

Project - Networks Investigation Aboriginal