Turramurra High School - 2023 - Year 7 - Scope and Sequence

Term 1 2023

		Week 2		Week 3		Week 4	Week 5		Week 6		Week 7	Week 8		Week 9	Week 10		Week 11	
30/1	31/1		6/2		13/2		20/2		27/2		6/3		13/3	20/3		27/3		4/3

SDD 2	Immersion Week	Swimming Carnival	Topic 1: Calculator Skills	Topic 2: Computation with positive integers	Athletics Carnival	Topic 2: Computation with positive integers	Topic 3: Introduction to Pronumerals	Year 7 Camp	Topic 3: Introduction to Pronumerals	Topic 4: Angle Relationships	Term 1 assessment	Topic 4: Angle Relationships	GOOD FRIDAY
				MA4 1WM, MA4 2WM, MA4 3WM, MA4 4NA, MA4 9NA		**MA4 1WM, MA4 2WM, MA4 3WM, MA4 4NA, MA4 9NA**	**MA4 8NA**		**MA4 8NA**	**MA4 18MG, MA4 1WM, MA4 2WM, MA4 3WM**		**MA4 18MG, MA4 1WM, MA4 2WM, MA4 3WM**	
			$+ - \times \div ()$ $x^{\square}$ $D \to S$ Fractions to decimals & vice versa Resource: Freefall (altitude)	"Apply the associative, commutative and distributive laws to aid mental and written computation. Carry out the four operations with rational numbers and positive integers, using efficient mental and written strategies and appropriate digital technologies. Investigate index notation and represent whole numbers as products of powers of prime numbers Order of operations involving integers BIDMAS."		"Apply the associative, commutative and distributive laws to aid mental and written computation. Carry out the four operations with rational numbers and positive integers, using efficient mental and written strategies and appropriate digital technologies. Investigate index	Introduce the concept of variables as a way of representing numbers using letters.		Introduce the concept of variables as a way of representing numbers using letters.	Use the language, notation and conventions of Geometry. Recognise the geometrical properties of angles at a point. Identify corresponding, alternate and co-interior angles when two lines are crossed by a transversal. Investigate conditions for two lines to be parallel. Solve simple numerical problems (no reasons).		Use the language, notation and conventions of Geometry. Recognise the geometrical properties of angles at a point. Identify corresponding, alternate and co-interior angles when two lines are crossed by a transversal. Investigate	

NAPLAN

Term 2 2023

		Week 1		Week 2		Week 3		Week 4	Week 5		Week 6		Week 7		Week 8		Week 9		Week 10
24/4	25/4	26/4		1/5		8/5		15/5	22/5		29/5		5/6		12/6	13/6		19/6		26/6
SDD	Anzac Day	**Topic 5: Computation with integers**				**Topic 6: Algebraic Techniques and Equations**					**Topic 7: Understanding fractions, percentages and decimals**				Queens Birthday			Term 2 assessment		**Topic 8: Properties of Geometric Figures 1**
		MA4 1WM, MA4 2WM, MA4 3WM, MA4 4NA, MA4 9NA				**MA4 8NA, MA4 1WM, MA4 2WM, MA4 3WM**					**MA4 5NA, MA4 1WM, MA4 2WM, MA4 3WM**									**MA4 17MG, MA3 15MG, MA4 1WM, MA4 2WM, MA4 3WM**

Topic 5: Computation with integers —
"Introduce negative integers and perform all the operation from topic 1.

Investigate index notation and represent whole numbers as products of powers of prime numbers

Use index notation with numbers to establish the index laws with positive-integer indices and the zero index

• Calculator skill – able to enter positive & negative integers & perform all operations

Topic 6: Algebraic Techniques and Equations —
Extend and apply the laws and properties of arithmetic to algebraic terms and expressions. Simplify algebraic expressions involving the four operations.

Create algebraic expressions and evaluate them by substituting a given value for each variable.
Solve simple linear one-step equations

Topic 7: Understanding fractions, percentages and decimals —
• Recognise that the place value system can be extended beyond hundredths
• Compare fractions using equivalence; locate and represent positive and negative fractions and mixed numerals on a number line
• Find a fraction, decimal, percentage of a quantity.
• Express one quantity as a fraction, decimal, percentage of another.
• Investigate terminating and recurring decimals
Round decimals to a specified number of decimal places.
• Multiply and divide fractions using efficient written strategies and digital technologies
• Connect fractions, decimals and percentages and carry out simple conversions.

Week 8 —
Calculator skills
fraction key skills
o Convert fractions to decimals & vice versa
o Use the percentage key

Topic 8: Properties of Geometric Figures 1 —
Classify triangles according to their side and angle properties

Identify line and rotational symmetries

Demonstrate that the angle sum of a triangle is 180° and use this to find the angle sum of a quadrilateral.

Term 3 2023

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
17/7	18/7	24/7	31/7	7/8	14/8	21/8	28/8	4/9	11/9	18/9

S.D.D.	Topic 8: Properties of Geometric Figures 1		Topic 9: Computation with fractions			Topic 10: Measurement and Decimals			Term 3 assessment	Topic 10 continued
	MA4 17MG, MA3 15MG, MA4 1WM, MA4 2WM, MA4 3WM		**MA4 5NA, MA4 1WM, MA4 2WM, MA4 3WM**			**MA3 7NA, MA4 12MG, MA4 13MG, MA4 1WM, MA4 3WM, MA4 2WM**				

Topic 8:

Classify triangles according to their side and angle properties

Identify line and rotational symmetries

Demonstrate that the angle sum of a triangle is 180° and use this to find the angle sum of a quadrilateral.

Topic 9:

- Solve problems involving addition and subtraction of fractions, including those with unrelated denominators.
- Multiply and divide fractions using efficient written strategies and digital technologies.
- Calculator key
  o Use fraction keys and perform all operations.

Topic 10:

Please Note: This topic is designed to cover both decimals and measurement. In finding perimeters and areas students will need to be able to perform operations with decimals.
* Add and subtract decimals, with and without the use of digital technologies, and use estimation and rounding to check the reasonableness of answers
* Multiply decimals by whole numbers and perform divisions by non-zero whole numbers where the results are terminating decimals, with and without the use of digital technologies
* Multiply and divide decimals by 10, 100 and 1000
* Find perimeters of parallelograms, trapeziums, rhombuses and kites
* Choose appropriate units of measurement for area and convert from one unit to another
* Establish formulas for areas of rectangles, triangles and parallelograms and use these in problem solving
* Calculator skills – rounding to a given number of decimal places

Term 4 2023

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10		Week 11	
9/10		16/10	23/10	30/10	6/11	13/11	20/11	27/11	4/12	11/12	18/12	19/12	

Topic 11: Time		Topic 12: Linear Relationships			Term 4 assessment	Topic 13: Measurement: Circles			Topic 14: Probability	Year 7 Water safety and survival	SDD	SDD	School Holidays
MA4 15MG, MA4 1WM, MA4 2WM		**MA4 11NA, MA4 1WM, MA4 2WM, MA4 3WM**				**MA4 12MG, , MA4 1WM, MA4 2WM**			**MA4 21SP, MA4 1WM, MA4 2WM, MA4 3WM**				

Topic 11:

Solve problems involving duration, including using 12-hour and 24-hour time within a single time zone

Solve problems involving international time zones

Calculator skills: Use DMS key

Topic 12:

Given coordinates, plot points on the Cartesian plane, and find coordinates for a given point.

Describe translations, reflections in an axis, and rotations of multiples of 90° on the Cartesian plane using coordinates.

Topic 13:

Identify and name parts of circles

Investigate the concept of irrational numbers, including .

Investigate the relationship between features of circles, such as the circumference, radius and diameter; use formulas to solve problems involving circumference.

Calculator skills: use pi and perform calculations

Topic 14:

Construct sample spaces for single-step experiments with equally likely outcomes.

Assign probabilities to the outcomes of events and determine probabilities for events.

Identify complementary events and use the sum of probabilities to solve problems.