Lanyon High School

Small Group Year 7/8 — Australian Curriculum: Mathematics (2024)

Identify curriculum	**Achievement standard**	***Students will study skills and content appropriate to their ability level under the topics listed below. All content is drawn from the Mathematics Curriculum, ranging from Foundation to Year 10 according to individual student ability level. Broadly, students in the Small Group will be learning a range of strategies to solve number and algebraic problems, gather and utilise data, make predictions involving probability, solve measurement problems and develop their financial literacy in preparation for real-life scenarios.*** Source: Australian Curriculum, Assessment and Reporting Authority (ACARA), *Australian Curriculum: Mathematics for Foundation–10 Version 9*, Mathematics | V9 Australian Curriculum			
Teaching and learning	**Term overview**	**Term 1**	**Term 2**	**Term 3**	**Term 4**
		NUMBER and ALGEBRA: Mental computation strategies (ongoing) **EL6: I can perform basic operations**			
		NUMBER and ALGEBRA **EL6: I can perform basic operations** ● **Number and place value** - Number properties - Number sequences - Addition and subtraction strategies - Mental and written strategies - Integer: comparison, addition and subtraction ● **Money and Financial Mathematics** **EL13: Money is finite and needs to be managed** - Identifying coin and note values - Adding and subtracting values - Total cost of values - Change given - simple budgets - Comparing costs **MEASUREMENT and GEOMETRY** ● **Time** **EL9: I can utilise my time** - Reading digital and analogue - Converting between times - Determining travel time - applying understanding of time to real life applications **STATISTICS and PROBABILITY** **EL: 8 can read and interpret tables, graphs and visual texts.** ● **Data Representation and Interpretation** Collect data and analyse it - Represent data in different ways - Calculate mean, mode,median	**NUMBER and ALGEBRA** **EL6: I can perform basic operations** - Multiplication and division strategies - Mental and written strategies - Identifying factors and multiples - Index notation squares and square roots ● **Patterns and Algebra** - Describes, continues number patterns from four operations of number - Find unknown quantities in number sentences - Explore the use of brackets and order of operations to write number sentences - Connect the laws and properties for numbers to algebra - solve simple linear equations and evaluate expressions after substitution. **MEASUREMENT and GEOMETRY** **EL8: I can read and interpret tables, graphs and visual texts** ● Maps and directions ● Identifying features on a map **Introduce Cartesian Plane** - Assign ordered pairs to given point on a cartesian plane - Represent transformations in the cartesian plane	**NUMBER and ALGEBRA** **EL 6: I can perform basic operations** ● **Fractions and Decimals** - Model and represent unit fractions - Expressing fractions as a decimal or percentage - Representing fractions and decimals as equivalents - Solving problems using fractions decimals and percentages. - Solve everyday problems using ratio, rates and percentages **MEASUREMENT and GEOMETRY** **EL7: I can functionally use metric units** - Using Length, mass and capacity to work with decimal fractions - Convert units of measurement - Solve problems using volume **EL7: I can functionally use metric units** ● **Using units of measurement** - Area - Perimeter - Units of measurement Length - Calculate the circumference of circles	**MEASUREMENT and GEOMETRY** **Geometric reasoning** **EL: I Can identify and compare angle sizes in everyday situations** ● **Angles** - Draws and names different types of angles - Solves simple problems involving angles - Names of types of angles formed by a transversal crossing parallel lines **EL:-I can identify properties of shapes** ● **Shape** - Investigating properties of shapes 2D and 3D - Describe different views of 3D objects - Classify triangles and quadrilaterals - Identify conditions for congruence of triangles and deduce the properties of quadrilaterals ● **Location and Transformation** **EL: I can Identify and create patterns of Symmetry** - Transformation and symmetry
	General capabilities and Cross curriculum priorities				

	Key to general capabilities and cross-curriculum priorities	Literacy	Numeracy	ICT capability	Critical and creative thinking	Ethical behaviour	Personal and social capability	Intercultural understanding	Aboriginal and Torres Strait Islander histories and cultures	Asia and Australia's engagement with Asia	Sustainability				
Develop assessment	**Assessment**	**Term 1**		**Term 2**		**Term 3**		**Term 4**							
		Week	**Assessment instrument**	**Week**	**Assessment instrument**	**Week**	**Assessment instrument**	**Week**	**Assessment instrument**						
		1-10	Ongoing Bookwork working with operations of number	1-10	Ongoing Bookwork working with operations of number	1-10	Ongoing Bookwork working with operations of number	1-10	Ongoing Bookwork working with operations of number						
		6	Data analysis assessment	6	Mapping and cartesian plane assessment	6	Statistical survey assessment	6	Angles and Shape assessment						
Make judgments and use feedback	**Moderation**	**Term 1**		**Term 2**		**Term 3**		**Term 4**							
		Teachers moderate the assessment tasks to ensure consistency of judgments.		Teachers moderate the assessment tasks to ensure consistency of judgments.		Teachers moderate the assessment tasks to ensure consistency of judgments.		Teachers moderate the assessment tasks to ensure consistency of judgments.							