



## Scope and Sequence Year 9 Mathematics 2013

	<b>Unit 1</b>	<b>Unit 2</b>	<b>Unit 3</b>	<b>Unit 4</b>	<b>Unit 5</b>	<b>Unit 6</b>
<b>Time/ Duration</b>	Term 1 Week 1-3	Term 1 Week 4-7	Term 1 Week 8-10	Term 2 Week 1-4	Term 2 Week 5-7	Term 2 Week 8-10
<b>Name of Unit</b>	Algebra PAS 4.3,	Number NS4.3, NS5.1.1	Measurement MS5.1.1	NAPLAN preparation and NAPLAN	Geometry SGS4.3	Pythagoras Theorem MS4.1
<b>Concepts</b>	Simplify, expand and factorise algebraic expressions. Substitute into algebraic expressions.	Approximation, estimation, scientific notation.	Area and perimeter of quadrilaterals and circles. Surface area of prisms.	Topics in stage 4 and 3.	Properties angles formed by transversal cutting parallel lines. Properties of triangles and quadrilaterals.	Practical applications of Pythagoras Theorem.
<b>In class Activities and Homework</b>	Exercises, use of Mathletics, weekly homework sheet	Exercises, use of Mathletics, weekly homework sheet	Exercises, use of Mathletics, weekly homework sheet	Do past papers and expose students to the language used in the test questions	Exercises, use of Mathletics, weekly homework sheet	Exercises, use of Mathletics, weekly homework sheet
<b>Learning Areas</b>		Rounding numbers to set number of decimal places. Use scientific notation with and without a calculator.	Use formulae to find area of quadrilaterals. Use formulae to find circumference and area of circles.	Stage 4 mathematics.	Use properties of quadrilaterals and triangles to solve numerical problems.	Find sides in right angled triangles. Test for right angled triangles. Solve practical problems which involve right angle triangles
<b>Reporting Stems</b>	Measurement Number Patterns and Algebra Space and Geometry					



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	<b>Unit 7</b>	<b>Unit 8</b>	<b>Unit 9</b>	<b>Unit 10</b>	<b>Unit 11</b>	<b>Unit 12</b>
<b>Time/ Duration</b>	Term 3 Week 1-3	Term 3 Week 4-7	Term 3 Week 8-10	Term 4 Week 1-3	Term 4 Week 4-7	Term 4 Week 8-10
<b>Name of Unit</b>	Consumer Arithmetic NS 5.1.2	Coordinate Geometry PAS 5.1.2	Data  DS4.2, DS5.1.1	Equations and Inequalities PAS4.4 PAS 5.2.2	Indices  PAS5.1.1	Congruence and Similarity  SGS4.4
<b>Concepts</b>	Earning money	Linear relations, distance, midpoint and gradient.	Analyse data and grouped data.	Solve linear equations and inequations.	Index Laws for positive integral indices and zero index.	Similar and congruent figures
<b>In class Activities and Homework</b>	Exercises, use of Mathletics, weekly homework sheet	Exercises, use of Mathletics, weekly homework sheet	Students collect data to analyse. Use sampling to make predictions.	Exercises, use of Mathletics, weekly homework sheet	Exercises, use of Mathletics, weekly homework sheet	Exercises, use of Mathletics, weekly homework sheet
<b>Learning Areas</b>	Calculate wages, salaries, overtime payments, commission, holiday loadings.	Drawing lines from a table of values. Calculating length, gradient and midpoint of an interval using a number plane.	Find measures of location for data. Group data and use the statistics mode on the calculator to find mean. Use cumulative frequency to find median.	Use algebraic methods to solve equations and inequations. Use number line to graph solutions to inequations.	Use index laws established for numbers to simplify algebraic expressions.	Identify congruent and similar figures and state the relevant conditions.
<b>Reporting Stems</b>	Patterns and Algebra Number Measurement Space and Geometry Data					