Year 2 Enriched Mathematics Course Outline

	Content
Term 1	Content
1*	Proportion & Measure of Central Tendency
1*.1	Direct Proportion
1*.2	Inverse Proportion
1*.3	Measure of Central Tendency
1	Linear Inequalities
1.1	Solving Simple Inequalities
1.2	Word Problems on Simple Inequalities
2	Linear Equations in Two Variables
2.1	Meaning of Simultaneous Equations
2.2	Solving Simultaneous Equations Solving Simultaneous Equations using
2.2	Elimination Method
	Substitution Method
	Graphical Method
2.3	Solving problems using simultaneous equations
3	Expansion & Factorization of Algebraic Expressions
3.1	
3.2	Expansion Common factor method (Paview)
3.3	Common factor method (Review)
	Grouping method
3.4	Special Algebraic rules
3.5	Quadratic Factorization
Term 2	
4	Algebraic Fractions & Formulae
4.1	Simplifying algebraic fractions
4.2	Multiplication and Division of algebraic fractions
4.3	Addition and subtraction of algebraic fractions
1 4 4	
4.4	Solving simple equations involving algebraic fractions
4.5	Changing subject of formula
4.5 5	Changing subject of formula Quadratic Equations
4.5 5 5.1	Changing subject of formula Quadratic Equations Meaning of quadratic equations
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Term 3	
8	Pythagoras Theorem
8.1	Pythagoras Theorem
8.2	Applications of Pythagoras Theorem (including questions
	on volume and surface area of pyramid, cone and sphere)
8.3	Determination of right-angled triangles using converse of
	Pythagoras Theorem
9	Trigonometric Ratios
9.1	Definition of sine, cosine and tangent of an acute angle
9.2	Trigonometric Ratios and application
10	Volume & Surface Area of Pyramids, Cones & Spheres
10.1	Volume and surface area of a pyramid
10.2	Volume and surface area of a cone
10.3	Volume and surface area of a sphere
Term 4	
11	Symmetry
11.1	Line Symmetry
11.2	Rotational Symmetry and order