	Content
Term 1	
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 using
	Elimination Method
	Substitution Method
	Graphical Method
2.3	Solving problems using simultaneous equations
3	Expansion & Factorization of Algebraic Expressions
3.1	Expansion
3.2	Common factor method (Review)
3.3	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
4.4	Solving simple equations involving algebraic fractions
4.5	Changing subject of formula
5	Quadratic Equations
5.1	Meaning of quadratic equations
5.2	Solving quadratic equations using 'rooting' method;
	factorization method; completing the square and quadratic
	formula method
5.3	Application of Quadratic Equations
6	Quadratic Functions & Graphs
6.1	Drawing of quadratic graphs and answering of questions
L	based on graph drawn
6.2	Quadratic graphs and applications
7	Indices and Standard Form
7.1	Definition of index notation
7.2	Using laws of indices to simplify algebraic expressions
7.3	Solving equations involving indices
7.4	Definition of Standard Form
7.5	Operations on numbers expressed in Standard Form
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## Year 2 Enriched Mathematics Course Outline

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
8	Volume & Surface Area of Pyramids, Cones & Spheres
8.1	Volume and surface area of a pyramid
8.2	Volume and surface area of a cone
8.3	Volume and surface area of a sphere
Term 4	
10	Symmetry
10.1	Line Symmetry
10.2	Rotational Symmetry and order