

Year 1 Enriched Mathematics Course Outline

	Topics
Term 1	
1	Factors and Multiples
1A	Primes, HCF and LCM
1B	Squares, Square Roots, Cubes and Cube Roots
2	Real Numbers
2A	Integers
2B	Rational and Irrational Numbers
3	Approximation and Estimation
3A	Significant Figures
3B	Estimation
4	Basic Algebra & Algebraic Manipulation
4A	Basic Algebra
4B	Expansion
4C	Laws of Indices
4E	Factorisation involving Common Factors
4F	Factorisation by Grouping
4G	Substitution
Term 2	
5	Simple Equations In One Variable
5A	Linear Equations
5B	Simple Algebraic Equations
6	Angles and Parallel Lines
6	Angles and Parallel Lines
7	Triangles, Quadrilaterals and Other Polygons
7A	Triangles
7B	Quadrilaterals
7C	Polygons
7D	Construction of Triangles & Quadrilaterals
Term 3	
8	Ratio, Rate & Speed
8A	Ratio
8B	Rate & Speed
8C	Income Tax
8D	Direct & Inverse Proportion
8F	Scales & Maps – Linear Scale
8G	Scales & Maps – Area Scale
9	Percentages
9A	Percentage, Discount and Hire Purchase
9B	Taxes, GST and Commission
10	Sequences and Number Patterns
10	Sequence and Number Patterns
11	Linear Functions and Graphs

11A	Cartesian Coordinates, Scales and Linear Graphs
11B	Gradient and Equation of Straight Line
12	Perimeters and Areas of Plane Figures
12A	Perimeter and Area of squares, rectangles, triangles and circles
12B	Perimeter and Area of parallelograms and trapeziums
Term 4	
13	Volume and Surface Area of Prisms and Cylinders
13A	Volume and Surface Area of Cuboid, Prism and Cylinder
13B	Composite Solids
14	Data Handling
14A	Data handling – Frequency Tables
14 B	Reading and Interpreting Tables and Statistical Diagrams