Year 3 Express Additional Mathematics Course Outline

	Topics
Term 1	•
0	Common Conceptual Mistakes in Algebra
0.1	Common Conceptual Mistakes in Algebra
1	Simultaneous Equations
1.1	Linear and Non-Linear Equation in 2 unknowns
1.2	Simultaneous Equations in Word Problems
2	Quadratic Expressions and Equations
2.1	Discriminant and Nature of Roots
3	Coordinate Geometry
3.1	Midpoint, Distance, Gradient, Equation of a Straight Line
3.2	Collinear Points, Parallel Lines and Perpendicular Lines
3.3	Circles
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Term 2	Debugged to a dispersion of the state of the
4	Polynomials and Partial Fractions Polynomial Identities, Dividing Polynomials
4.1	Remainder and Factor Theorem
4.2	Solving Cubic equations
4.4	Partial Fractions
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5	Surds and Exponential Equations
5.1	Surds
5.2	Indices and Exponential Equations
5.3	Sketching Exponential Functions
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6	Logarithms
6.1	Definition of Logarithms
6.2	Common and Natural Log
6.3	Laws of Logarithms
6.4	Graphs of Logarithmic Functions
6.5	Logarithmic Equations
6.6	Solving Equations of the form a ^x = b
6.7	Applications of Logarithmic Functions
Term 3	
7	Linear Law
7.1	Finding unknown constants from given linear graphs
7.2	Application of Linear Law
0	Triangement in Equation 10
8	Trigonometric Functions and Graphs
8.1	Trigonometric Functions of Angles
8.2	Graphs of Trigonometric Functions
0	Trigger amountain Identities and Farrations
9	Trigonometric Identities and Equations
9.1	Simple Identities
9.2	Solving Trigonometric Equations

10	Binomial Theorem
10.1	Notation
10.2	Expansion
10.3	General Terms