

Year 2 Express Mathematics Course Outline

	Content
Term 1	
1	Proportion
1.1	Map Scale Calculation of distance and area
1.2	Direct Proportion
1.3	Inverse Proportion
2	Expansion & Factorization of Algebraic Expressions
2.1	Expansion of products of Algebraic Expressions
2.2	Special Products of Algebraic Expressions
2.3	Factorization using Special Products of Algebraic Expressions
2.4	Factorization using Grouping Method
2.5	Factorization of Quadratic Expressions
3	Simple Algebraic Fractions
3.1	Simplifying simple algebraic fractions
3.2	Multiplication and division of algebraic fractions
3.3	Addition and subtraction of algebraic fractions
3.4	Changing of subject of formula and substitution in a formula
Term 2	
4	Congruence and Similarity
4.1	Meaning of Congruence and Similarity
4.2	Solving simple problems involving congruence & similarity
4.3	Meaning of scale factor and solving simple problems on scale drawings.
5	Simple Inequalities & Simultaneous Linear Equations
5.1	Solving Simple Inequalities
5.2	Meaning of Simultaneous Equations
5.3	Solving Simultaneous Equations using Elimination Method Substitution Method Graphical Method
5.4	Solving problems using simultaneous equations
6	Quadratic Functions & Equations
6.1	Graphs of Quadratic Functions
6.2	Solving Quadratic Equations by Factorization
6.3	Application of Quadratic Equations
Term 3	
7	Pythagoras Theorem
7.1	Pythagoras Theorem

7.2	Applications of Pythagoras Theorem
7.3	Determination of right-angled triangles using converse of Pythagoras Theorem
8	Trigonometric Ratios of Acute Angles
8.1	Trigonometric Ratios
8.2	Trigonometric Ratios & Applications
9	Mensuration of Pyramids, Cones and Spheres
9.1	Volume and surface area of a pyramid
9.2	Volume and surface area of a cone
9.3	Volume and surface area of a sphere
10	Data Analysis
10.1	Interpreting Dot Diagram
10.2	Interpreting Stem and Leaf Diagram
10.3	Histogram
10.4	Measure of Central Tendency: mean, median and mode
Term 4	
11	Probability
11.1	Meaning of Probability and solving simple problems on probability
11.2	Definition of Sample Space and solving simple problems involving Sample Space