

Year 2 Express Mathematics Course Outline

	Content
Term 1	
1	Linear Inequalities
1.1	Solving simple inequalities
1.2	Word Problems on linear 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 of products of Algebraic Expressions
3.2	Special Products of Algebraic Expressions
3.3	Factorization using Special Products of Algebraic Expressions
3.4	Factorization using Grouping Method
3.5	Factorization of Quadratic Expressions
Term 2	
4	Algebraic Fractions & Formulae
4.1	Simplifying simple algebraic fractions
4.2	Multiplication and division of algebraic fractions
4.3	Addition and subtraction of algebraic fractions
4.4	Changing of subject of formula and substitution in a formula
5	Quadratic Functions, Graphs & Equations
5.1	Graphs of Quadratic Functions
5.2	Solving Quadratic Equations by Factorization
5.3	Application of Quadratic Equations
6	Proportion
6.1	Map Scale Calculation of distance and area
6.2	Direct Proportion
6.3	Inverse Proportion
7	Congruence and Similarity
7.1	Meaning of Congruence and Similarity
7.2	Solving simple problems involving congruence & similarity
7.3	Meaning of scale factor and solving simple problems on scale drawings.
Term 3	
8	Pythagoras Theorem
8.1	Pythagoras Theorem
8.2	Applications of Pythagoras Theorem
8.3	Determination of right-angled triangles using converse of Pythagoras Theorem

9	Trigonometric Ratios
9.1	Trigonometric Ratios
9.2	Trigonometric Ratios & Applications
10	Volume & Surface Area of Pyramids, Cones and 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
11	Statistical Diagrams
11.1	Drawing and Interpreting of Dot Diagram
11.2	Drawing and Interpreting of Stem and Leaf Diagram
11.3	Drawing and Interpreting of Histogram
12	Measure of Central Tendency
12.1	Measure of Central Tendency: mean, median and mode
Term 4	
13	Probability
13.1	Meaning of Probability and solving simple problems on probability
13.2	Definition of Sample Space and solving simple problems involving Sample Space