Year 1 Express Mathematics Course Outline

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1	**Primes, HCF and LCM**
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1.2	Highest Common Factor
1.3	Least Common Multiple
1.4	Square Roots & Cube Roots
2	**Integers, Rational Numbers and Real Numbers**
2.1	Concept of Negative Numbers and the number line
2.2	Addition and Subtraction of integers
2.3	Multiplication, Division and combined operation of integers
2.4	Rational, Irrational and Real numbers
2.5	Operations on Real numbers
3	**Approximation And Estimation**
3.1	Rounding off numbers to specified decimal places
3.2	Rounding off numbers to specified significant figures
3.3	Estimation
4	**Basic Algebra and Algebraic Manipulation**
4.1	Introduction to Algebra
4.2	Simplification of Linear Expressions
4.3	Expansion of Linear Expressions
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5	**Simple Equations in one variable**
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5.2	Linear Equations involving Brackets
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5.4	Formulate linear equations to solve word problems
6	**Angles and parallel lines**
6.1	Points, Lines and Planes
6.2	Angles
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7	**Triangles, Quadrilaterals and Other Polygons**
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7.4	Construction of Triangles and Quadrilaterals

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9.4	Problems involving Percentage in Practical Situations
10	**Number Patterns**
10.1	Sequences
10.2	Problems involving number Patterns
11	**Coordinates and Linear graphs**
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11.2	Concept of a Function
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12	**Perimeter and Area of Plane Figures**
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14.3	Representing and Analyzing Data
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