

Y7 Year Plan

Unit Number	Unit Name	Topics Covered
1	Negative Numbers	Order negative numbers Add and subtract negative numbers Multiply and divide negative numbers
2	Decimals	Order decimals Rounding to a given number of decimal places Add and subtract decimals Multiply & divide by 10, 100, 1000 Multiply decimals Divide decimals
3	Special Numbers	Understand square numbers and roots Understand cube numbers and cube roots Order of operations including powers and roots Triangular numbers Find factors of numbers up to 1000 Find the HCF of up to 3 numbers Find the LCM of up to 3 numbers Understand and determine primes up to 40 Divisibility tests Prime factorisation
4	Introduction to Algebra	Use and interpret algebraic notation Simplify through collecting like terms Simplifying through cancelling down (laws of indices) Substitute up to x^3 Expand single brackets Factorise single brackets Identities
5	Fractions	One quantity as fraction of another Equivalent fractions Simplify fractions Mixed/improper conversion Order fractions Add/subtract fractions Multiply fractions Reciprocals Divide fractions Fractions of amounts Increase/decrease by a fraction

6	Introduction to Probability	Express probability as a fraction Mutually exclusive events Or rule, And rule, including tree diagrams Relative frequency and experimental probability Two-way tables
7	Percentages	Convert between fraction, decimals and percentages Write fractions as percentages Calculate percentage change Calculate percentage of amount (non-calculator) Calculate percentage of amount (calculator) Percentage increase and decreases (non-calculator) Percentage increase and decreases (calculator) Reverse percentages Appreciation and depreciation (and simple interest)
8	Using Inequalities and Forming and Solving Equations/Inequalities	Solve one-step equations Solve two-step equations Solve equations with brackets Solve equations with variables on both sides Solve linear inequalities with an unknown on one side Solve linear inequalities with an unknown on both sides Represent sets of solutions on a number line Inequality solution set
9	Ratio Tables	Ratio notation Simplify ratio Writing as 1:n Ratio and fractions Divide quantities whole, part or difference of parts Recipe problems Best buy problems Currency conversion Speed problems
10	Introduction to Angle Facts	Types of angles Draw and measure angles Angles on a straight line Angles around a point Angles in a triangle