

Year 7 Mathematics Overview (Sets: AA,AB,AC,BA,BB,BC)

Autumn 1

Number Laws: using the Commutative, Associative and Distributive laws

Numbers and the Number System: prime factors, HCF, LCM, integer powers and their roots, arithmetic progressions

Calculating: four operations with decimals, order of operations (BIDMAS)

Autumn 2

Visualising and Constructing: properties of 3D shapes and constructing triangles

Investigating Properties of Shapes: geometric notation and angles

Spring 1

Algebraic Proficiency: Simplifying expressions, substitution, order of operations (BIDMAS)

Exploring Fractions, Decimals and Percentages: conversions

Proportional Reasoning: ratio problems

Pattern Sniffing: sequences

Spring 2

Measuring Space: investigating standard units of measurement (length, capacity, mass, money, time)

Investigating Angles: calculating angles using angle facts

Calculating Fractions and Percentages: four operations with fractions, using percentages

Solving Equations and Inequalities: up to 3-step equations

Summer 1

Calculating Space: area, surface area and volume of shapes

Checking, Approximation and Estimation

Mathematical Movement: transformations of shapes on a coordinate grid

Presentation of Data: construct pie charts and frequency tables

Summer 2

Measuring Data: averages and the range

End of year assessments

Code Breaking