**Maths Curriculum Overview**

|  | **Autumn** | **Spring** | **Summer** |
| --- | --- | --- | --- |
| **Year 7** | **Number**  **N1 Ordering**  **N2 Use of symbols**  **N3 Percentages**  **N4 FDP**  **N5 Factor and Multiples**  **N6 Powers and Roots**  **N7 Negatives**  **N8 Fractions**  **N9 Mixed Numbers**  **N10 Order of Operations**  **N11 Rounding (decimal places)**  **N12 Function Machines**  **Ratio**  **R1 Simplifying Ratio**  **R2 Sharing by a Ratio**  **R3 Fractions and Ratio** | **Algebra**  **A1 Simplifying Algebra**  **A2 Writing Algebraic Expressions**  **A3 Expanding Brackets**  **A4 Substitution**  **A5 Graphs of y=a and x=a**  **A6 Graphs of y=x and y=-x**  **A7 Solving Equations**  **A8 Sequences**  **A9 Fibonacci Sequences**  **Statistics**  **S1 Pie Charts**  **S2-3 Averages and Range** | **Geometry**  **G1-2 2D Shapes**  **G3 Reflection, Rotation, Translation**  **G4 Labelling Shapes**  **G5 Plans and Elevations**  **G6 Area of Trapezium**  **G7 3D Shapes**  **G8 Volume**  **G9 Surface Area**  **G10-11 Angles**  **G12 Time and Money**  **Probability**  **P1 Language of Probability**  **P2 Probability Scale**  **P3 Finding Probabilities**  **P4 Constructing Venn Diagrams** |
| **Year 8** | **Number**  **N1 Multiply and Divide with Decimals**  **N2 Factor Trees**  **N3 Rounding (significant figures)**  **N4 Powers bigger than 3**  **N5 Mixed Number Arithmetic**  **Statistics**  **S1 Grouped Frequency Tables**  **S2 Scatter Graphs**  **Probability**  **P1 Sum of 1**  **P2 Two Way Tables**  **P3 Frequency Trees**  **P4 Sample Space Diagrams**  **P5 Multiple Events**  **P6 Expectation** | **Algebra**  **A1 Double Brackets**  **A2 Factorising**  **A3 Rules of Indices**  **A4 Rearranging Equations**  **A5 Substitution with Negatives**  **A6 Equations with x on both sides**  **A7 Linear Graphs**  **A8 The Gradient**  **A9 Distance-Time Graphs**  **A10 Quadratic Graphs**  **A11 nth Term** | **Geometry**  **G1 Polygon Angles**  **G2 Circumference of Circles**  **G3 Area of Circles**  **G4 Enlargement**  **G5 Bearings**  **G6 Compound Area**  **G7 Volume of Prisms**  **G8 Units of Measure**  **Ratio**  **R1 Proportion**  **R2 Real Life Ratio**  **R3 Percentage multipliers**  **P4 Units of Speed, Distance, Time** |
| **Year 9** | **Number**  **N1 Using a Calculator**  **N2 Estimating and Error Intervals**  **N3 Comparing Numbers**  **N4 Multiples in Context**  **N5 Best Buys**  **N6 Standard Form**  **N7 Reverse %**  **N8 Surds**  **Ratio**  **R1 Profit as a %**  **R2 Repeated % Change**  **R3 Direct and Indirect Proportion**  **R4 Density** | **Geometry**  **G1 Volume of Compound Shapes**  **G2 Sectors**  **G3 Volume of Cylinders**  **G4 Surface Area**  **G5 Multiple Transformations**  **G6 Enlargement from a Point**  **G7 Congruent Triangles**  **G8 Similar Shapes**  **G9 Pythagoras**  **G10 Construction**  **G11 Polygon Angles**  **G12 Trigonometry** | **Algebra**  **A1 Forming and Solving Equations**  **A2 Simultaneous Equations**  **A3 Inequalities**  **A4 Functions**  **A5 Algebraic Graphs**  **Statistics**  **S1 Stem and Leaf**  **S2 Composite and Dual Bar Charts**  **S3 Frequency Polygons**  **Probability**  **P1 Interpreting Venn Diagrams**  **P2 Tree Diagrams** |
| **KS4 Foundation** | **Rounding, Estimate, Using a Calculator, LCM, HCF, Factor Trees, Indices, Standard Form, Expand, Factorise, Equations, Substitute, Rearrange, Sequences, Fractions, Ratio, Proportion, Best Buy, Percentages and Decimals** | **Angles, Pythagoras, Trigonometry, Perimeter, Area, Circles, Volume, Surface Area, Units, Error Interval, Density, Straight Line Graphs, Quadratic Graphs, Speed, Reflect, Rotate, Translate and Enlarge, Inequalities and Simultaneous Equations** | **Sample Space, Expectation, Two Way Tables, Frequency Trees, Tree Diagrams, Venn Diagrams, Similarity, Vectors, Pie Charts, Scatter Graphs, Frequency Polygons, Stem & Leaf, Frequency Tables, Plans & Elevations, Bearings, Construction, Bisecting and Loci** |
| **Year 10 Higher** | **Estimate, Using a calculator, LCM, HCF, Factor Trees, Indices, Standard Form, Surds, Expand, Factorise, Equations, Substitution, Rearranging, Sequences, Fractions, Ratio, Proportion, Best Buy, Percentages, Decimals, Angles, Pythagoras and Trigonometry** | **Linear Graphs, Coordinate Geometry, Parallel & Perpendicular Lines, Real Life Graphs, Nonlinear Graphs, Area, Volume, Surface Area, Circles, Sectors, Converting units, Error Intervals and Bounds** | **Transformations, Plans & Elevations, Bearings, Construction, Bisecting, Loci, Solving Quadratics, Simultaneous Equations, Inequalities, Product Rule, Sample Space Diagrams, Expectation, Frequency Trees, Tree Diagrams, Venn Diagrams, Density, Force and Direct & Indirect Proportion** |
| **Year 11 Higher** | **Congruency, Similarity, Trig Graphs, Trig Equations, Further Trig, Sampling, Cumulative Frequency, Box Plots, Histograms, Graphical Inequalities and Iterations** | **Circle Theorems, Further Rearranging, Algebraic Fractions, Functions, Proof, Vectors, Tangents, Area Under Non Linear Graphs and Transforming Graphs** | **Pie Charts, Two Way Tables, Stem & Leaf, Scatter Graphs, Frequency Polygons, Frequency Tables and Capture/Recapture** |