**Maths Curriculum Overview**

|  | **Autumn** | **Spring**  | **Summer** |
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| **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** |