

| Maths Curriculum Map | | | | | | |
|---------------------------------------|--|--|--|--|---|--|
| | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| Year 7 | <u>Number</u> Calculations, Decimal numbers, Place value, Factors and multiples, Squares, cubes and roots, Index notation, Prime factors | <u>Algebra</u> Algebraic expressions Simplifying expressions Substitution, Formulae Expanding brackets Algebra, Factorising Using expressions and formulae | <u>Fractions & percentages</u> Fractions and decimals Fractions and percentages Calculating percentages Working with fractions Operations with fractions Multiplying fractions Dividing fractions | <u>Perimeter, area and volume 1</u> Rectangles, parallelograms and triangles Trapezia and changing units Area of compound shapes Surface area of 3D solids Volume of prisms More volume and surface area | <u>Interpreting & represent data</u> Mean and range Mode, median and range Types of average Estimating the mean <u>Angles</u> Properties of shapes, Angles in parallel lines, Angles in triangles Exterior/interior angles Geometrical patterns | <u>Interpreting & represent data</u> Frequency tables, Two-way tables, Representing data; Stem and leaf diagrams Pie charts Scatter graphs Line of best fit <u>Revision & Consolidation</u> |
| National Curriculum Indicators | N1 N2 N3 N4 N5 N6 N7 N13 N14 N15 | N1 N3 N4 A1 A2 A3 A4 A5 A6 A7 A21 | N1 N2 N3 N4 N8 N10 N12 N15 R3 R9 S2 | N13 N14 R1 G12 G14 G16 G17 R1 | S1 S2 S4 S5 G1 G3 G4 G6 G7 G11 | S2 S4 S5 S6 |
| Assessment | 2 x class feedback | 1 x class feedback 1 x formal assessment | 2 x class feedback | 1 x class feedback 1 x formal assessment | 2 x class feedback | 1 x class feedback END OF YEAR EXAM |
| Year 8 | <u>Number Recap</u> <u>Indices and standard form</u> The laws of indices Writing large & small numbers in standard form Calculating with standard form | <u>Equations, inequalities</u> Solving equations 1 Solving equations with brackets Introducing inequalities More inequalities More formulae <u>Sequences</u> Generating sequences Using the nth term of a sequence | <u>Ratio and proportion</u> Writing ratios Using ratios 1 Ratios and measures Using ratios 2 Comparing using ratios Using proportion Proportion and graphs Proportion problems | <u>Graphs</u> Coordinates Linear graphs Gradient $y = mx + c$ Real-life graphs Distance-time graphs More real-life graphs | <u>Probability</u> Tree diagrams Calculating probability Two events <u>Transformations</u> Translations Reflections Rotations Enlargements | <u>Right-angled triangles</u> Pythagoras' theorem <u>Surface Area & Volume</u> Cubes, cuboids Prisms Spheres Composite Shapes <u>Revision & Consolidation</u> |
| National Curriculum Indicators | N1 N2 N3 N4 N5 N6 N7 N13 N14 N15 N8 N9 | A23 A24 A25 N1 N3 A2 A3 A5 A7 A17 A21 A22 | N11 N13 R1 R4 R5 R6 R7 R8 R10 R11 R12 R14 | N13 A7 A8 A9 A10 A12 A14 A17 R11 R14 G14 | N5 P1 P2 P3 P4 P5 P6 P7 P8 G8, G7 G24 G25 | N7 N15 G6 G20 G11 G12 G14 G16 G17 G18 |
| Assessment | 2 x class feedback | 1 x class feedback 1 x formal assessment | 2 x class feedback | 1 x class feedback 1 x formal assessment | 2 x class feedback | 1 x class feedback END OF YEAR EXAM |

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| <p style="text-align: center;">Year 9</p> | <p>Standard form Writing large & small numbers in standard form Calculating with standard form</p> <p>Multiplicative reasoning Percentages Growth and decay Compound measures Distance, speed, and time Direct and inverse proportion</p> | <p>Algebra Recap</p> <p>Quadratic equations Solving quadratic equations Completing the square Solving simultaneous equations Solving linear and quadratic simultaneous equations Quadratic graphs</p> | <p>Trigonometry Finding a side length Finding an angle Exact trig values</p> <p>Congruence & similarity Congruence Similarity problems Similarity in 3D solids; area & volume</p> | <p>More algebra Non-linear graphs Solving simultaneous equations graphically Solving simultaneous equations algebraically</p> <p>Graphs Graphing rates of change Real-life graphs Cubic and reciprocal graphs</p> | <p>Probability Experimental probability Venn diagrams Set notation More tree diagrams</p> <p>Constructions and loci Bisectors Constructing triangles Loci</p> | <p>Number Recurring decimals Surds Rationalising surds</p> <p><u>Revision & Consolidation</u></p> |
| <p>National Curriculum Indicators</p> | <p>N2 N3 N6 N7 N8 N9 N13 R1 R7 R9 R10 R11 R13 R16 G14</p> | <p>N4 A1 A3 A4 A6 A8 A11 A12 A14 A18</p> | <p>G20 G21 R6 R12 G5 G6 G7 G17 G19</p> | <p>R2 G1 G15 A14 A15 R10 R11 A9 R8 A10 G11 A8 A11 A12 A16 A2 A3 A5 A6 A12 A14 A17 A19 A21 R10 R13 R14 R16</p> | <p>N5 P1 P2 P3 P4 P5 P6 P7 P8 P9 G1 G2 R2</p> | <p>N3 N8</p> |
| <p>Assessment</p> | <p>2 x class feedback</p> | <p>1 x class feedback 1 x formal assessment</p> | <p>2 x class feedback</p> | <p>1 x class feedback 1 x formal assessment</p> | <p>2 x class feedback</p> | <p>1 x class feedback END OF YEAR EXAM</p> |