

## Maths Key Stage 3 Curriculum Overview The curriculum differs according to student groupings

Year 9	Autumn	Spring	Summer
<b>Target Grade 4, 5 and 6</b>	Pythagoras Simplifying Expressions Writing and solving equations Indices & Standard Form Averages from Grouped Data Factor Trees Probability Tree Diagrams Speed & Compound Measures Fractions Rearranging Formulae Quadratic Expressions Iteration (Trial & Improvement) Distance Time Graphs	Percentages Written Calculations Loci Circle Theorems Similar Shapes Angles in Regular Polygons Trigonometry Simultaneous Equations Proportionality Inequalities Cumulative frequency	Plotting Graphs Ratios Straight Line Graphs Enlargement, Translation & Reflection Formulas and Equations of Motion Quadratic Sequences 3-D Shapes Circles
<b>Target Grade 4 and 5</b>	Pythagoras Simplifying Expressions Writing and solving equations Inequalities Indices & Standard Form Factor Trees Averages from Grouped Data Probability Speed & Compound Measures Fractions Plotting Graphs Iteration (Trial & Improvement) Distance Time Graphs Percentages	Written Calculations Venn Diagrams & Frequency Trees Loci Angles in Regular Polygons Similar Shapes Trigonometry Simultaneous Equations	Proportionality Enlargement, Translation & Reflection Ratios Straight Line Graphs Quadratic Expressions Formulas and Equations of Motion Circles 3-D Shapes Quadratic Sequences
<b>Target Grade 3 and 4</b>	Pythagoras Simplifying Expressions Writing and solving equations Bearings Construction Pie Charts Factor Trees Probability Speed & Compound Measures Scatter Graphs Fractions Rounding & Estimating Distance Time Graphs Percentages with Calculators	Percentages with Calculators Plans & Elevations Venn Diagrams & Frequency Trees Written Calculations Loci Angle Rules Sequences Stem & Leaf Diagrams Area Iteration	Frequency Polygons Ratios Straight Line Graphs Enlargement and Translation Formulas and Equations of Motion Circles 3-D Shapes Nets & Surface Area
<b>Target Grade 2 and 3</b>	Simplifying Expressions Negative Numbers Constructions Pie Charts Factor Trees Properties of Number Probability Symmetry Scatter Graphs Fractions Rounding & Estimation Distance Time Graphs Fraction/Decimal/Percentage/Ratio Conversions	Averages & Range Bearings Percentages with Calculators Plans & Elevations Angle Rules Sequences Stem & Leaf Diagrams Area Equations	Frequency Polygons Ratio & Proportion Co-ordinates and Graphs Translation/Enlargement Formulas and Equations of Motion Nets & Surface Area 3-D Shapes Circles



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<b>Target Grade 1a and 2</b>	Tables & Charts Rounding and Place Value Negative Numbers Simplifying Expressions Scales and Graphs Probability Language of Shapes Metric Conversions Symmetry Fraction/Decimal/Percentage Conversions	Time Number Properties Averages & Range Fractions Angles Rules Stem & Leaf Diagrams Sequences Area & Perimeter Equations	Ratio & Proportion 3-D Shapes Translation Enlargement Co-ordinates BIDMAS Formulas
<b>Target Grade 1a and 1b</b>	Rounding and Place Value Tables & Charts Language of Shapes Units of Measurement & Reading Scales Introduction to Probability Co-ordinates and Symmetry Introduction to Probability Metric Conversions Fraction/Decimal/Percentage Conversions Time and Calendars	Calculating Averages Conversion Graphs Measuring Lengths and angles Using letters to represent Numbers Sequences Area & Perimeter Number fluency	Basic Formulas 3-Dimensional Language Algebraic Expressions Number fluency Consolidation