|  | Autumn Term 1 | Autumn Term 2 | Spring Term 1 | Spring Term 2 | Summer Term 1 | Summer Term 2 |
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| Unit of Learning | Proportional Reasoning | Representations | Algebraic Techniques | Developing Number | Developing Geometry | Reasoning with data |
| Unit Focus | Ratio \& Scale <br> Multiplicative <br> Change <br> Multiplying \& division fractions | Working in the Cartesian plane Representing data Tables \& Probability | Brackets, equations \& inequalities Sequences Indices | Fractions \& percentages Standard index form Number sense | Angles in parallel lines \& polygons Area of trapezia \& circles Line symmetry \& reflection | The data handling cycle Measures of location |
| Key Knowledge | Using ratio notation. <br> Expressing ratio in different forms. <br> Understand gradient as a ratio. <br> Direct proportion graphs. <br> Currency. <br> Scale diagrams and shapes. | Coordinates in all four quadrants. <br> Straight line graphs. <br> Gradient of a line. <br> Plot graphs in the form $\mathrm{y}=\mathrm{mx}+\mathrm{c}$. <br> Scatter graphs. <br> Lines of best fit. <br> Frequency tables. | Multiply out single and double brackets using the grid method. <br> Forma and solve equations with brackets and inequalities. <br> Generate sequences from words or an algebraic rule. | Convert fluently between fractions, decimals \& percentages. <br> Using multipliers to calculate percentages. <br> Find the original amount. <br> Order numbers in standard form. | Basic algebra rules and notation. <br> Constructions of triangles and special quadrilaterals. <br> Sum of interior and exterior angles in any polygon. <br> Area of triangles and quadrilaterals. | Statistical enquiry. <br> Draw and interpret pictograms, bar charts, vertical line charts and pie charts. <br> Compare distributions using charts. <br> Identify misleading graphs. |

## Maths

|  | Multiplication \& division of fractions. <br> Reciprocals with fractions. <br> Multiply \& divide algebraic fractions. | Two-way tables. <br> Probabilities from a sample space. <br> Product rule for finding possible outcomes. | Find the nth term of a linear sequence. <br> Four operations with indices. <br> Addition \& subtraction law. <br> Powers of powers. | Add \& subtract numbers in standard form. <br> Understand and use negative \& fractional indices. <br> Calculations with money. <br> Metric measure. <br> Area \& volume. <br> Time \& the calendar. | Area of a circle. <br> Line symmetry. <br> Reflect a shape in a horizontal or vertical line. <br> Reflect a shape in a diagonal line. | Averages - mean, median and mode. <br> Find the mean from an ungrouped and grouped frequency table. <br> Identify outliers. |
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| SMSC | The wonder of numbers, formulae and equations | Truth, likelihood and certainty | Pattern and order | The universality of mathematics over time and space Shape and regularity | Shape and regularity | Truth, certainty and likelihood |
| Experiences/CEIAG |  | Fibonacci Sequence Day |  | Pi Day | JMC | Big Bang Fair |
| Examples of how you can help your child at home | Corbett maths MyMaths | Corbett maths MyMaths | Corbett maths MyMaths | Corbett maths MyMaths | Corbett maths MyMaths | Corbett maths MyMaths |

