

Autumn Term

Duration		
3 weeks	<p style="text-align: center;">Number - Place Value</p> <p><i>There us more revision of numbers of the size children met in Year 5.</i></p> <p><i>Place value charts are used more extensively to emphasise the structure of numbers in "groups of threes" – 1s, 10s, 100s followed by 1,000s, 10,000s and 100,000s.</i></p> <p><i>Multiplicative connections between numbers has more emphasis e.g. 100 times the size, one hundredth the size of...</i></p> <p><i>Use of the number line has more emphasis, including dividing into 2, 4, 5 and 10 sections.</i></p>	<ul style="list-style-type: none"> • Numbers to 1,000,000 • Numbers to 10,000,000 • Read and write numbers to 10,000,000 • Powers of 10 • Number line to 10,000,000 • Compare and order any integers • Round any integers • Negative numbers
5 weeks	<p style="text-align: center;">Number - Addition, Subtraction, Multiplication and Division</p> <p><i>An explicit step has been included to check understanding of the rules of divisibility.</i></p> <p><i>The progression in the block is now even clearer, for example the sequence of learning for long division has been improved.</i></p> <p><i>More emphasis is placed on problem solving, including using the appropriate method for a calculation.</i></p>	<ul style="list-style-type: none"> • Add and subtract integers • Common factors • Common multiples • Rules of divisibility • Primes to 100 • Square and cube numbers • Multiply up to a 4-digit number by a 2-digit number • Solve problems with multiplication • Short division • Division using factors • Introduction to long division • Long division with remainders • Solve problems with division • Solve multi-step problems • Order of operations • Mental calculations and estimation • Reason from known facts

3 weeks	<p style="text-align: center;">Number - Fractions (A)</p> <p><i>There is more introductory work on equivalent fractions before moving to simplifying.</i></p> <p><i>The progression in the block is now even clearer, for example the sequence of learning for long division has been improved.</i></p> <p><i>More emphasis is placed on problem solving, including using the appropriate method for a calculation.</i></p>	<ul style="list-style-type: none"> • Equivalent fractions and simplifying • Equivalent fractions on a number line • Compare and order (denominator) • Compare and order (numerator) • Add and subtract simple fractions • Add and subtract any two fractions • Add mixed numbers • Subtract mixed numbers • Multi-step problems
3 weeks	<p style="text-align: center;">Number - Fractions (B)</p> <p><i>An extra step has been included with mixed questions to support children to identify the correct operation and correct method of solution.</i></p>	<ul style="list-style-type: none"> • Multiply fractions by integers • Multiply fractions by fractions • Divide a fraction by an integer • Divide any fraction by an integer • Mixed questions with fractions • Fraction of an amount • Fraction of an amount - find the whole
1 week	<p style="text-align: center;">Measurement - Converting Units</p> <p><i>There are no major changes to the content of this block.</i></p>	<ul style="list-style-type: none"> • Metric measures • Convert metric measures • Calculate with metric measures • Miles and kilometres • Imperial measures

SPRING TERM

Duration		
2 weeks	<p style="text-align: center;">Number - Ratio</p> <p><i>Extra steps have been added to ease progression and help children see the difference between additive and multiplicative reasoning.</i></p> <p><i>More emphasis is placed on language so children have understanding ratio and proportion in terms of "for every" and "in every".</i></p>	<ul style="list-style-type: none"> • Add or multiply? • Using ratio language • Introduction to the ratio symbol • Ratio and fractions • Scale drawing • Using scale factors • Similar shapes • Ratio problems • Proportion problems • Recipes
2 weeks	<p style="text-align: center;">Number - Algebra</p> <p><i>The opening steps have been focused to explore function machines more deeply, including working backwards. This strategy is then developed in the equations steps.</i></p> <p><i>The progression in working with problems with two unknowns has been improved, with an emphasis on a bar modelling approach.</i></p>	<ul style="list-style-type: none"> • 1-step function machines • 2-step function machines • Form expressions • Substitution • Formulae • Form equations • Solve 1-step equations • Solve 2-step equations • Find pairs of values • Solve problems with two unknowns
2 weeks	<p style="text-align: center;">Number - Decimals</p> <p><i>The progression in this block has been slowed down with clearer development building from learning in earlier years.</i></p> <p><i>Some steps have been moved into the next block, Fractions, decimals and percentages, to ensure decimals are secure before moving to equivalence.</i></p>	<ul style="list-style-type: none"> • Place value within 1 • Place value - integers and decimals • Round decimals • Add and subtract decimals • Multiply by 10, 100 and 1,000 • Divide by 10, 100 and 1,000 • Multiply decimals by integers • Divide decimals by integers • Multiply and divide decimals in context
2 weeks	<p style="text-align: center;">Number - Fractions, Decimals and Percentages</p> <p><i>This replaces the block on percentages in the previous version of the schemes. The focus is on understanding equivalence before using this to support calculations.</i></p> <p><i>More emphasis is placed on representations, including number lines and bar models.</i></p>	<ul style="list-style-type: none"> • Decimal and fraction equivalents • Fraction as division • Understand percentages • Fractions to percentages • Equivalent fractions, decimals and percentages • Order fractions, decimals and percentages • Percentage of an amount - one step • Percentage of an amount - multi-step • Percentages - missing values

2 weeks	<p>Measurement - Area, Perimeter and Volume</p> <p><i>There are no significant changes to this block, but the steps involving the area of a triangle have been renamed to clarify their purpose.</i></p>	<ul style="list-style-type: none"> • Shapes - same area • Area and perimeter • Area of a triangle - counting squares • Area of a right-angled triangle • Area of any triangle • Area of a parallelogram • Volume - counting cubes • Volume of a cuboid
2 weeks	<p style="text-align: center;">Statistics</p> <p><i>The steps on line graphs have been consolidated into one, as these have been covered in detail in earlier years.</i></p> <p><i>An extra step has been added to explicitly explore dual bar charts.</i></p> <p><i>The step on circles has been moved into the Shape block in the summer term, but some vocabulary will be needed when studying pie charts.</i></p>	<ul style="list-style-type: none"> • Line graphs • Dual bar charts • Read and interpret pie charts • Pie charts with percentages • Draw pie charts • The mean

SUMMER TERM

Duration		
3 weeks	<p style="text-align: center;">Geometry - Shape</p> <p><i>The step about circles has been moved from the statistics block to sit with the more similar steps in this block.</i></p> <p><i>Some steps have been renamed to clarify their purpose and to ensure the correct use and understanding of mathematical language.</i></p>	<ul style="list-style-type: none"> • Measure and classify angles • Calculate angles • Vertically opposite angles • Angles in a triangle • Angles in a triangle - special cases • Angles in a triangle - missing angles • Angles in quadrilaterals • Angles in polygons • Circles • Draw shapes accurately • Nets of 3-D shapes
1 week	<p style="text-align: center;">Geometry - Position and Direction</p> <p><i>An extra step has been added to allow for practice working with coordinates in all four quadrants before moving on to translations and reflections.</i></p>	<ul style="list-style-type: none"> • The first quadrant • Read and plot points in four quadrants • Solve problems with coordinates • Translations • Reflections
<p>Themed Projects, Consolidation and Problem Solving</p>		