

Autumn Term

Duration		
4 weeks	<p>Number - Multiplication and Division (A) Teachers are to ensure that the children recap multiplication facts that they should be secure on from the previous year group (4) - as advised by our consultant Sarah Martin.</p> <p><i>An extra step has been added in to focus on common multiples, mirroring the structure of the steps on factors.</i></p> <p><i>There is another Year 5 block on multiplication and division, the first block in the Spring term. This second block focuses on the formal methods of multiplication and division and makes use of the times-tables facts and effect of multiplying by powers of 10 in this block</i></p>	<ul style="list-style-type: none"> • Multiples • Common multiples • Factors • Common factors • Prime numbers • Square numbers • Cube numbers • Multiply by 10, 100 and 1,000 • Divide by 10, 100 and 1,000 • Multiples of 10, 100 and 1,000
3 weeks	<p>Number - Place Value</p> <p><i>Roman numerals is now first to serve as a reminder of place value with smaller numbers, and comparing systems</i></p> <p><i>The steps have been grouped together by type rather than swapping back and fore. The structure of numbers of all the sizes is covered first, and later comparing and ordering numbers followed is explored before rounding.</i></p> <p><i>There is new step specifically aimed and reading and writing numbers to 1 million.</i></p> <p><i>Negative numbers are now covered in a separate short block later in the year.</i></p>	<ul style="list-style-type: none"> • Roman numerals to 1,000 • Numbers to 10,000 • Numbers to 100,000 • Numbers to 1,000,000 • Read and write numbers to 1,000,000 • Powers of 10 • 10/100/1,000/10,000/100,000 more or less • Partition numbers to 1,000,000 • Number line to 1,000,000 • Compare and order numbers to 100,000 • Compare and order numbers to 1,000,000 • Round to the nearest 10, 100 or 1,000 • Round within 100,000 • Round within 1,000,000

<p>3 weeks</p>	<p style="text-align: center;">Number – Addition and Subtraction</p> <p><i>Mental strategies are revised first. This revision of key number relationships will support the use of formal methods in the upcoming steps.</i></p> <p><i>Although the steps focus on numbers with more than four digits, the key learning sections begin</i></p>	<ul style="list-style-type: none"> • Mental strategies • Add whole numbers with more than four digits • Subtract whole numbers with more than four digits • Round to check answers • Inverse operations (addition and subtraction) • Multi-step addition and subtraction problems • Compare calculations
	<p><i>with numbers with fewer digits as revision and to identify any gaps/need for intervention before moving on these more involved calculations.</i></p> <p><i>The step building on the rounding learning from the place value block is now more explicitly focused on estimation to check answers.</i></p> <p><i>Two new steps have been added to support the development of mental flexibility through using known facts to deduce, rather than work out, other facts.</i></p>	<ul style="list-style-type: none"> • Find missing numbers
<p>5 weeks</p>	<p style="text-align: center;">Number – Fractions (A)</p> <p><i>More introductory work on equivalent fractions has been included.</i></p> <p><i>Mental methods are emphasised alongside formal written methods.</i></p> <p><i>Adding three or more fractions incorporated into other steps rather than treated separately.</i></p> <p><i>The other Year 5 block on fractions is the second block in the Spring term.</i></p>	<ul style="list-style-type: none"> • Find fractions equivalent to a unit fraction • Find fractions equivalent to a non-unit fraction • Recognise equivalent fractions • Convert improper fractions to mixed numbers • Convert mixed numbers to improper fractions • Compare fractions less than 1 • Order fractions less than 1 • Compare and order fractions greater than 1 • Add and subtract fractions with the same denominator • Add fractions within 1 • Add fractions with total greater than 1 • Add to a mixed number • Add two mixed numbers • Subtract fractions • Subtract from a mixed number • Subtract from a mixed number - breaking the whole • Subtract two mixed numbers

SPRING TERM

Duration		
3 weeks	<p style="text-align: center;">Number - Multiplication and Division (B)</p> <p><i>Progression in multiplication has been slowed, with steps building to greater amounts of digits from revision of previous learning.</i></p> <p><i>There is more explicit problem solving so children can practice their skills in practical contexts.</i></p> <p><i>As the formal method of division is introduced for the first time, this has been split into more steps to give time to develop understanding.</i></p>	<ul style="list-style-type: none"> • Multiply up to a 4-digit number by a 1-digit number • Multiply a 2-digit number by a 2-digit number (area model) • Multiply a 2-digit number by a 2-digit number • Multiply a 3-digit number by a 2-digit number • Multiply a 4-digit number by a 2-digit number • Solve problems with multiplication • Short division • Divide a 4-digit number by a 1-digit number • Divide with remainders • Efficient division • Solve problems with multiplication and division
2 weeks	<p style="text-align: center;">Number - Fractions (B)</p> <p><i>The step on fractions of amounts has been split into three to allow for more gradual learning and deeper understanding.</i></p>	<ul style="list-style-type: none"> • Multiply a unit fraction by an integer • Multiply a non-unit fraction by an integer • Multiply a mixed number by an integer • Calculate a fraction of a quantity • Fraction of an amount • Find the whole • Use fractions as operators
3 weeks	<p style="text-align: center;">Number - Decimals and Percentages</p> <p><i>Progression in this block has been slowed with revision of previous learning embedded before moving on to thousandths. Three weeks are now allocated, compared to two in the previous scheme.</i></p> <p><i>The rounding element has also been split into two steps, so children can explore rounding to the nearest whole before rounding to one decimal place.</i></p>	<ul style="list-style-type: none"> • Decimals up to 2 decimal places • Equivalent fractions and decimals (tenths) • Equivalent fractions and decimals (hundredths) • Equivalent fractions and decimals • Thousandths as fractions • Thousandths as decimals • Thousandths on a place value chart • Order and compare decimals (same number of decimal places) • Order and compare any decimals with up to 3 decimal places • Round to the nearest whole number • Round to 1 decimal place • Understand percentages • Percentages as fractions • Percentages as decimals • Equivalent fractions, decimals and percentages
2 weeks	<p style="text-align: center;">Measurement - Perimeter and Area</p> <p><i>An extra step has been included to build on the Year 4 learning on perimeter of polygons.</i></p> <p><i>The last step has been renamed to avoid the misconception that previous shapes covered (such as rectangles) are regular.</i></p>	<ul style="list-style-type: none"> • Perimeter of rectangles • Perimeter of rectilinear shapes • Perimeter of polygons • Area of rectangles • Area of compound shapes • Estimate area

2 weeks	<p style="text-align: center;">Statistics</p> <p><i>The two steps relating to the interpretation of line graphs have been combined.</i></p> <p><i>The step on timetables has been simplified to focus on reading and interpreting only.</i></p> <p><i>Calculating with timetables has moved to the summer block</i></p> <p><i>Converting units.</i></p>	<ul style="list-style-type: none">• Draw line graphs• Read and interpret line graphs• Read and interpret tables• Two-way tables• Read and interpret timetables
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SUMMER TERM

Duration		
3 weeks	<p style="text-align: center;">Geometry - Shape</p> <p><i>Progression in the use of a protractor has been slowed with extra steps on classifying and estimating before measuring and drawing in order to support the use of the correct scale.</i></p> <p><i>There is an extra step on 3-D shapes which includes recognising 2-D representations.</i></p>	<ul style="list-style-type: none"> • Understand and use degrees • Classify angles • Estimate angles • Measure angles up to 180° • Draw lines and angles accurately • Calculate angles around a point • Calculate angles on a straight line • Lengths and angles in shapes • Regular and irregular polygons • 3-D shapes
2 weeks	<p style="text-align: center;">Geometry - Position and Direction</p> <p><i>The steps have been redeveloped to support progression and ensure that problems include those with and those without coordinate grids.</i></p>	<ul style="list-style-type: none"> • Read and plot coordinates • Problem solving with coordinates • Translation • Translation with coordinates • Lines of symmetry • Reflection in horizontal and vertical lines
3 weeks	<p style="text-align: center;">Number - Decimals</p> <p><i>Progression in this block has been slowed with learning built up from known facts before exploring more formal methods. Pupils will also explore whether mental methods, jottings or formal methods are most appropriate.</i></p>	<ul style="list-style-type: none"> • Use known facts to add and subtract decimals within 1 • Complements to 1 • Add and subtract decimals across 1 • Add decimals with the same number of decimal places • Subtract decimals with the same number of decimal places • Add decimals with different numbers of decimal places • Subtract decimals with different numbers of decimal places • Efficient strategies for adding and subtracting decimals • Decimal sequences • Multiply by 10, 100 and 1,000 • Divide by 10, 100 and 1,000 • Multiply and divide decimals - missing values
1 week	<p style="text-align: center;">Number - Negative Numbers</p> <p><i>This brand new block has been developed from the steps previously taught in Y4 and Y5 place value blocks. This potentially challenging topic has been broken down further to allow for in-depth study.</i></p>	<ul style="list-style-type: none"> • Understand negative numbers • Count through zero in 1s • Count through zero in multiples • Compare and order negative numbers • Find the difference
2 weeks	<p style="text-align: center;">Measurement - Converting Units</p> <p><i>There are no major changes to this block, but some steps have been renamed to improve clarity.</i></p> <p><i>Calculating with timetables is included here, building on from reading and interpreting timetables in the earlier statistics block.</i></p>	<ul style="list-style-type: none"> • Kilograms and kilometres • Millimetres and millilitres • Convert units of length • Convert between metric and imperial units • Convert units of time • Calculate with timetables
1 week		<p>Measurement - Volume</p>