

YEAR 4 - Maths Curriculum

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn term	<div>Number</div> <div>Place value</div> <div>VIEW</div>				<div>Number</div> <div>Addition and subtraction</div> <div>VIEW</div>		<div>Measurement</div> <div>Area</div> <div>VIEW</div>		<div>Number</div> <div>Multiplication and division A</div> <div>VIEW</div>			<div>Consolidation</div>
Spring term	<div>Number</div> <div>Multiplication and division B</div> <div>VIEW</div>		<div>Measurement</div> <div>Length and perimeter</div> <div>VIEW</div>		<div>Measurement</div> <div>Length and perimeter</div> <div>VIEW</div>	<div>Number</div> <div>Fractions</div> <div>VIEW</div>			<div>Number</div> <div>Decimals A</div> <div>VIEW</div>			
Summer term	<div>Number</div> <div>Decimals B</div> <div>VIEW</div>	<div>Measurement</div> <div>Money</div> <div>VIEW</div>	<div>Measurement</div> <div>Time</div> <div>VIEW</div>	<div>Consolidation</div>	<div>Geometry</div> <div>Shape</div> <div>VIEW</div>	<div>Statistics</div> <div>VIEW</div>	<div>Geometry</div> <div>Position and direction</div> <div>VIEW</div>					

AUTUMN TERM

National Curriculum

Small Steps

Number and Place Value (4 Weeks)

Identify, represent and estimate numbers using different representations.

Count in multiples of 6, 7, 9, 25 and 1000.

Recognise the place value of each digit in a 4-digit number (1000, 100, 10, 1).

Find 1000 more or less than a given number.

Order and compare numbers beyond 1000.

Read roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.

Round any number to the nearest 10, 100 or 1000.

Solve number and practical problems that involve all of the above and with increasingly large positive numbers.

Count backwards through zero to include negative numbers.

Step 1	Represent numbers to 1,000
Step 2	Partition numbers to 1,000
Step 3	Number line to 1,000
Step 4	Thousands
Step 5	Represent numbers to 10,000
Step 6	Partition numbers to 10,000
Step 7	Flexible partitioning of numbers to 10,000
Step 8	Find 1, 10, 100, 1,000 more or less
Step 9	Number line to 10,000
Step 10	Estimate on a number line to 10,000
Step 11	Compare numbers to 10,000
Step 12	Order numbers to 10,000
Step 13	Roman numerals
Step 14	Round to the nearest 10
Step 15	Round to the nearest 100
Step 16	Round to the nearest 1,000
Step 17	Round to the nearest 10, 100 or 1,000

Number + & - (3 Weeks)

Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.

Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.

Estimate and use inverse operations to check answers to a calculation.

Step 1	Add and subtract 1s, 10s, 100s and 1,000s
Step 2	Add up to two 4-digit numbers – no exchange
Step 3	Add two 4-digit numbers – one exchange
Step 4	Add two 4-digit numbers – more than one exchange
Step 5	Subtract two 4-digit numbers – no exchange
Step 6	Subtract two 4-digit numbers – one exchange
Step 7	Subtract two 4-digit numbers – more than one exchange
Step 8	Efficient subtraction
Step 9	Estimate answers
Step 10	Checking strategies

Measure Area (1 Week)

Find the area of rectilinear shapes by counting squares.

Step 1	What is area?
Step 2	Count squares
Step 3	Make shapes
Step 4	Compare areas

AUTUMN TERM

National Curriculum

Number x & / (3 Weeks)

Recall multiplication facts up to 12×12 .

Recognise and use factor pairs and commutativity in mental calculations.

Count in multiples of 6, 7, 9, 25 and 1000.

Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.

Small Steps

Step 1	Multiples of 3
Step 2	Multiply and divide by 6
Step 3	6 times-table and division facts
Step 4	Multiply and divide by 9
Step 5	9 times-table and division facts
Step 6	The 3, 6 and 9 times-tables
Step 7	Multiply and divide by 7
Step 8	7 times-table and division facts
Step 9	11 times-table and division facts
Step 10	12 times-table and division facts
Step 11	Multiply by 1 and 0
Step 12	Divide a number by 1 and itself
Step 13	Multiply three numbers

Real Life Maths Week—With a Unit of your choosing

****Linked to Whitgreave Wheels****

SPRING TERM

National Curriculum

Number x & / (3 Weeks)

Recognise and use factor pairs and commutativity in mental calculations.

Recall multiplication facts up to 12x12.

Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.

Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.

Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.

Small Steps

- Step 1 Factor pairs
- Step 2 Use factor pairs
- Step 3 Multiply by 10
- Step 4 Multiply by 100
- Step 5 Divide by 10
- Step 6 Divide by 100
- Step 7 Related facts – multiplication and division
- Step 8 Informal written methods for multiplication
- Step 9 Multiply a 2-digit number by a 1-digit number
- Step 10 Multiply a 3-digit number by a 1-digit number
- Step 11 Divide a 2-digit number by a 1-digit number (1)
- Step 12 Divide a 2-digit number by a 1-digit number (2)
- Step 13 Divide a 3-digit number by a 1-digit number
- Step 14 Correspondence problems
- Step 15 Efficient multiplication

Length and Perimeter (2 Weeks)

Convert between different units of measure [for example, kilometre to metre].

Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.

- Step 1 Measure in kilometres and metres
- Step 2 Equivalent lengths (kilometres and metres)
- Step 3 Perimeter on a grid
- Step 4 Perimeter of a rectangle
- Step 5 Perimeter of rectilinear shapes
- Step 6 Find missing lengths in rectilinear shapes
- Step 7 Calculate perimeter of rectilinear shapes
- Step 8 Perimeter of regular polygons
- Step 9 Perimeter of polygons

SPRING TERM—Continued

National Curriculum	Small Steps
<p>Fractions (4 Weeks)</p> <p>Recognise and show, using diagrams, families of common equivalent fractions.</p> <p>Add and subtract fractions with the same denominator.</p> <p>Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.</p>	<div>Step 1</div> Understand the whole <div>Step 2</div> Count beyond 1 <div>Step 3</div> Partition a mixed number <div>Step 4</div> Number lines with mixed numbers <div>Step 5</div> Compare and order mixed numbers <div>Step 6</div> Understand improper fractions <div>Step 7</div> Convert mixed numbers to improper fractions <div>Step 8</div> Convert improper fractions to mixed numbers <div>Step 9</div> Equivalent fractions on a number line <div>Step 10</div> Equivalent fraction families <div>Step 11</div> Add two or more fractions <div>Step 12</div> Add fractions and mixed numbers <div>Step 13</div> Subtract two fractions <div>Step 14</div> Subtract from whole amounts <div>Step 15</div> Subtract from mixed numbers
<p>Decimals (3 Weeks)</p> <p>Recognise and write decimal equivalents of any number of tenths or hundredths.</p> <p>Compare numbers with the same number of decimal places up to two decimal places.</p> <p>Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.</p> <p>Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.</p> <p>Recognise and show, using diagrams, families of common equivalent fractions.</p>	<div>Step 1</div> Tenths as fractions <div>Step 2</div> Tenths as decimals <div>Step 3</div> Tenths on a place value chart <div>Step 4</div> Tenths on a number line <div>Step 5</div> Divide a 1-digit number by 10 <div>Step 6</div> Divide a 2-digit number by 10 <div>Step 7</div> Hundredths as fractions <div>Step 8</div> Hundredths as decimals <div>Step 9</div> Hundredths on a place value chart <div>Step 10</div> Divide a 1- or 2-digit number by 100

SUMMER TERM

National Curriculum	Small Steps
<p>Decimals (2 Weeks)</p> <p>Recognise and write decimal equivalents of any number of tenths or hundredths.</p> <p>Compare numbers with the same number of decimal places up to two decimal places.</p> <p>Solve simple measure and money problems involving fractions and decimals to two decimal places.</p> <p>Round decimals with one decimal place to the nearest whole number.</p> <p>Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$.</p>	<div> <div>Step 1</div> <div>Make a whole with tenths</div> </div> <div> <div>Step 2</div> <div>Make a whole with hundredths</div> </div> <div> <div>Step 3</div> <div>Partition decimals</div> </div> <div> <div>Step 4</div> <div>Flexibly partition decimals</div> </div> <div> <div>Step 5</div> <div>Compare decimals</div> </div> <div> <div>Step 6</div> <div>Order decimals</div> </div> <div> <div>Step 7</div> <div>Round to the nearest whole number</div> </div> <div> <div>Step 8</div> <div>Halves and quarters as decimals</div> </div>
<p>Measures (Money—2 Weeks)</p> <p>Estimate, compare and calculate different measures, including money in pounds and pence.</p>	<div> <div>Step 1</div> <div>Write money using decimals</div> </div> <div> <div>Step 2</div> <div>Convert between pounds and pence</div> </div> <div> <div>Step 3</div> <div>Compare amounts of money</div> </div> <div> <div>Step 4</div> <div>Estimate with money</div> </div> <div> <div>Step 5</div> <div>Calculate with money</div> </div> <div> <div>Step 6</div> <div>Solve problems with money</div> </div>
<p>Measure (Time—2 Weeks)</p> <p>Convert hours to minutes, minutes to seconds, years to months or weeks to days.</p> <p>Solve problems involving converting hours to minutes, minutes to seconds, years to months or weeks to days.</p> <p>Read, write and convert time between analogue and digital 12 and 24 hour clocks.</p>	<div> <div>Step 1</div> <div>Years, months, weeks and days</div> </div> <div> <div>Step 2</div> <div>Hours, minutes and seconds</div> </div> <div> <div>Step 3</div> <div>Convert between analogue and digital times</div> </div> <div> <div>Step 4</div> <div>Convert to the 24-hour clock</div> </div> <div> <div>Step 5</div> <div>Convert from the 24-hour clock</div> </div>

SUMMER TERM

National Curriculum	Small Steps
<p>Geometry (Shape—2 Weeks)</p> <p>Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.</p> <p>Identify acute and obtuse angles and compare and order angles up to two right angles by size.</p> <p>Identify lines of symmetry in 2-D shapes presented in different orientations.</p> <p>Complete a simple symmetric figure with respect to a specific line of symmetry.</p>	<p>Step 1 Understand angles as turns</p> <p>Step 2 Identify angles</p> <p>Step 3 Compare and order angles</p> <p>Step 4 Triangles</p> <p>Step 5 Quadrilaterals</p> <p>Step 6 Polygons</p> <p>Step 7 Lines of symmetry</p> <p>Step 8 Complete a symmetric figure</p>
<p>Statistics (1 Week)</p> <p>Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.</p> <p>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</p>	<p>Step 1 Interpret charts</p> <p>Step 2 Comparison, sum and difference</p> <p>Step 3 Interpret line graphs</p> <p>Step 4 Draw line graphs</p>
<p>Geometry (Position—2 Weeks)</p> <p>Describe positions on a 2-D grid as co-ordinates in the first quadrant.</p> <p>Describe movements between positions as translations of a given unit to the left/right and up/down.</p> <p>Plot specified points and draw sides to complete a given polygon.</p>	<p>Step 1 Describe position using coordinates</p> <p>Step 2 Plot coordinates</p> <p>Step 3 Draw 2-D shapes on a grid</p> <p>Step 4 Translate on a grid</p> <p>Step 5 Describe translation on a grid</p>
<p>Real Life Maths Week—With a Unit of your choosing</p> <p><i>***Linked to Whitgreave Wheels ***</i></p>	