

## Mathematics Curriculum Overview 2023-2024

	Autumn 1	Autumn 2	Spring 2	Spring 3	Summer 2	Summer 2
Year 1	<p>Recap EYFS</p> <p><b>Place value</b> and number bonds within 5 and then 10</p> <p><b>Addition and subtraction</b> to 10</p> <p>Comparison of number</p>	<p><b>Place value and number bonds</b> up to 20</p> <p><b>Addition and subtraction</b> within 10</p> <p><b>Shape</b> – 2D and recognising 3D</p>	<p><b>Addition and subtraction</b> up to and within 20</p> <p>Recognising and counting numbers up to 50</p>	<p><b>Place value</b> to 50</p> <p>One more, one less</p> <p>Addition and Subtraction up to and within 20</p> <p>Missing number problems</p> <p><b>Measurement</b> length height in non- standard using longer shorter and equal to, and standard units using a ruler in cm from the zero.</p> <p><b>Weight and volume</b> in non-standard units –using terms heavier and lighter.</p> <p>Time – introduction to the hour and half hour.</p>	<p><b>Number</b> Multiplication and division</p> <p><b>Fractions</b> – finding a half. Introducing making a quarter</p>	<p><b>Position and direction</b> – describing position using quarter and half and three quarter turns</p> <p><b>Place value</b> to 100</p> <p>Multiplication and division – equal groups arrays and doubles</p> <p><b>Addition and subtraction</b> using values on coins, 1, 2 5 10, 20 and 50 pence and £1 and £2coins</p> <p><b>Measurement</b> Money &amp; Time</p>
Experience in counting in 1s, 2s, 3s, 5s and 10s. Develop an understanding of the early relationship between repeated addition and the multiplication symbol.						
Year 2	<p><b>Place Value</b> – within 20, 50 and 100</p> <p><b>Addition and Subtraction</b></p> <p>Fact families – number bonds to 100</p> <p><b>Addition and subtraction</b></p> <p>2digits to 1 digit including crossing the 10 boundary</p> <p><b>Times tables</b></p> <p>2 x</p>	<p><b>Multiplication and Division</b></p> <p>Making equal groups, arrays</p> <p><b>Properties of Shape</b></p> <p>Symmetry 2D and 3D</p> <p>Lines of symmetry</p> <p><b>Times tables</b></p> <p>5 x</p>	<p><b>Comparing and making amounts</b> using coins – two step problem solving</p> <p>Using standard English coins and notes up to £10</p> <p><b>Multiplication and Division</b></p> <p>Using the x and ÷ signs</p> <p>Dividing by 2 5 and 10</p> <p>Arrays and grouping.</p> <p><b>Times tables</b></p> <p>10 x</p>	<p><b>Fractions</b></p> <p>Find half quarter three quarters and thirds</p> <p>Understanding unit and non unit fractions. Equivalence.</p> <p><b>Measurement</b></p> <p>Length and height in cm and M</p> <p>100cm = 1M</p> <p><b>Times tables</b></p> <p>3 x</p>	<p><b>Time</b></p> <p>Recap of previous hour, half hour quarter to and past and 5 minute intervals.</p> <p>Finding the duration</p> <p><b>Geometry</b></p> <p><b>Position and direction</b></p> <p>Describing left right, forwards and backwards on a grid.</p> <p>Recapping Y1 quarter half and three quarter turns.</p> <p><b>Times tables</b></p> <p>11 x</p>	<p><b>Statistics</b></p> <p>Tally charts pictograms and block diagrams</p> <p>Using scales in 2,5 and 10.</p> <p><b>Temperature</b> – reading scales</p> <p><b>Mass</b></p> <p>Capacity in g and Kg</p> <p>Volume ml and L</p> <p>Application of the four operations in problem solving for volume and capacity</p> <p><b>Times tables</b></p> <p>Revision of 2s, 5s, 10s, 3s and 11s</p>
Year 3	<p><b>Place Value</b></p> <p>Recap Y2 to 100</p> <p>Represent to 1000</p> <p><b>Addition and subtraction</b></p> <p>3 digit to 1 digit including crossing 10</p> <p>3 digit by 2 digit including crossing the 100 boundary</p> <p><b>Times tables</b></p> <p>4 x (building on 2x)</p>	<p><b>Addition and Subtraction</b></p> <p>Problem solving involving 3 digit x 1 and 3 digit x 2</p> <p><b>Multiplication and Division</b></p> <p><b>Recapping Y2</b></p> <p>Multiplying and dividing by 8 using resources to support.</p> <p>Multiplying and dividing by 8 using resources to support.</p> <p><b>Times tables</b></p> <p>0 x and 1 x</p>	<p><b>Multiplication and Division</b></p> <p><b>Recapping Y2</b></p> <p>Multiplying and dividing by 8 using resources to support.</p> <p>Multiply and divide 2 digits x 1</p> <p>Grouping, arrays and bar models.</p> <p>Begin to use formal method with place value chart and counters</p> <p><b>Length and perimeter</b></p> <p>mm, cm and M.</p> <p><b>Fractions</b></p> <p>Recap – half quarter third and three quarters</p> <p>Equivalence of half and two quarters</p> <p><b>Times tables</b></p> <p>Revision of 2s, 5s, 10s, 3s, 11s, 4s, 0s and 1s</p>	<p><b>Fractions</b></p> <p>Recap – half quarter third and three quarters</p> <p>Equivalence of half and two quarters</p> <p><b>Mass and capacity</b></p> <p>Measuring using scales and reading in g and Kg, ml and L</p> <p>Adding and subtracting mass to solve problems</p> <p><b>Times tables</b></p> <p>8 x (building on 4 x)</p>	<p><b>Fractions</b></p> <p>Introducing decimal fractions</p> <p>Tenths</p> <p>Fractions on a number line and of objects Adding and subtracting fractions.</p> <p><b>Money</b></p> <p>Adding and subtracting, finding change.</p> <p><b>Time</b></p> <p>Telling to the nearest minute and 5 minutes</p> <p>Introducing the 24 hour clock</p> <p>Problem solving involving duration</p> <p><b>Times tables</b></p> <p>6 x (building on 3 x)</p>	<p><b>Shape</b></p> <p>2D including properties of shape</p> <p>3 D Shape names properties</p> <p>Introducing turns and angles</p> <p>Right angles parallel and perpendicular</p> <p><b>Statistics</b></p> <p>Recapping pictograms</p> <p>Bar charts and tables – scales in 2,3,4,8 and 10</p> <p><b>Times tables</b></p> <p>Revision of 2s, 5s, 10s, 3s, 11s, 4s, 0s, 1s, 8s and 6s</p>

<p><b>Year 4</b></p>	<p><b>Place Value</b> Recognising digits to 1000 and 10,000 Rounding to the nearest 10, 100 and 1000 Introducing negative numbers <b>Addition and Subtraction</b> Recap on adding and subtracting 3 digit x 3 digit numbers crossing 10 and 100 boundary Adding and subtracting 4 digit numbers without and with exchanging <b>Times tables</b> 12 x (building on 6 x and 3 x)</p>	<p><b>Measurement</b> Area (counting squares) <b>Multiplication and division</b> x and ÷ by 10 and 100 Know how to multiply by 1 and 0 <b>Times tables</b> 7 x</p>	<p><b>Multiplication and division</b> Formal written method 2 digit x 1, 3 digit x 1 <b>Measurement</b> length and perimeter. Perimeter on a grid and on rectilinear shapes <b>Recap from Y3</b> <b>Times tables</b> Revision of 2s, 5s, 10s, 3s, 11s, 4s, 0s, 1s, 8s, 6s, 12s and 7s</p>	<p><b>Fractions</b> Greater than one Adding and subtracting fractions of a quantity. Calculate quantities problem solving <b>Decimals</b> Recap recognising tenths and hundredths Divide 1 digit by 10 and 2 digit by 10 Compare order and round decimals. <b>Times tables</b> 9 x</p>	<p><b>Decimals</b> Recap recognising tenths and hundredths Divide 1 digit by 10 and 2 digit by 10 Compare order and round decimals. <b>Money</b> Adding subtracting giving change Multiplying and dividing using coins and notes Problem solving <b>Time</b> Recapping 1 minute and 5 minute and 24 hour clock Analogue to digital 12 and 24 hour <b>Times tables</b> Revision of all times tables 0 – 12</p>	<p><b>Place Value</b> Recap and introducing 100,000 Rounding to 1000,000 <b>Statistics</b> Interpreting charts Introducing line graphs <b>Shape</b> Introducing angles – properties and symmetry of triangles, quadrilaterals. <b>Position and direction</b> Describing movement on a grid <b>Times tables</b> Revision of all times tables 0 – 12 MTC check</p>
<p><b>Year 5</b></p>	<p><b>Place Value</b> Recognising digits up to 10,000 and rounding to the nearest million Comparing and ordering numbers to 1 million <b>Addition and Subtraction</b> Formal column methods Whole numbers with more than four digits, without and with more than one exchange.</p>	<p><b>Multiplication and division</b> Multiples factors prime numbers squares and cubes By 10 100 and 1000 All Times tables fluent up to 12 x 12 <b>Fractions</b> <b>Equivalence</b> <math>\frac{1}{2}</math> <math>\frac{1}{4}</math> <math>\frac{1}{3}</math> finding multiple equivalents Improper and mixed fractions Comparing and ordering</p>	<p><b>Multiplication and division</b> Recap Y4 Multiply 4 digits x 1 and by 2, 2 digit x 2 digit and 3 digit by 2 digit Divide Recap Y4 Divide 4 digits by 1 including remainders <b>Fractions</b> <b>Recap Equivalence</b> <math>\frac{1}{2}</math> <math>\frac{1}{4}</math> <math>\frac{1}{3}</math> finding multiple equivalents Improper and mixed fractions Comparing and ordering Adding and subtracting with the same and different denominators Adding and subtracting mixed numbers Multiplication of fractions and mixed numbers by a whole number Finding fractions of amounts</p>	<p><b>Decimals and Percentages</b> Recap y5 Rounding decimals Understanding thousandths Introduce percentages as fractions Finding equivalent % to fractions. <b>Perimeter and area.</b> Calculating in cm and m Area – of rectangle and compound shapes Recap of addition and subtraction from aut 1 <b>Statistics</b> Reading and interpreting line graphs Reading and interpreting tables</p>	<p><b>Recap of addition subtraction multiplication and division</b> <b>Decimals</b> Adding and subtracting within 1, crossing the whole X and ÷ by 10, 100 and 1000 from any place <b>Geometry</b> Identifying and comparing and ordering right acute and obtuse angles. Measuring using a protractor Calculating angles on a straight line and around a point Identifying angles within shapes <b>Shape</b> Recognising a range of polygons Recap properties of triangles and quadrilaterals (Y4) Understanding regular and irregular shape Recap Symmetry (Y4) for 2D shape Reasoning about 3D shapes <b>Position and direction</b> Recap Y4 Position in first quadrant Translation reflection and finding co-ordinates</p>	<p><b>Recap of addition subtraction multiplication and division</b> Formal column method addition and subtraction Introduce short division without remainders using formal method <b>Number</b> Negative numbers <b>Converting units</b> Metric to imperial Within metric for mass, volume and capacity</p>
<p>Mixed practice of all times tables to continue to ensure fluency and application of skills.</p>						

<b>Year 6</b>	<p><b>Place Value</b> Y5 recap Recognising digits up to 10 million Rounding any number Negative numbers</p> <p><b>Number sense</b> Squares, cubes, factors, prime numbers Common multiples Order of operations</p> <p><b>Addition and subtraction</b> Recap Y5 Add whole numbers with more than 4 digits Multi step addition and subtraction problem solving</p> <p><b>Multiplication and division</b> Recap short division Divide using factors and with remainders Introduce long division</p>	<p><b>Fractions</b> Compare and order using the denominator and numerator Add and subtract fractions which are multiples Add mixed numbers Multiply &amp; divide fractions</p> <p><b>Decimal fractions</b> Understand and order up to 3dp Multiply and divide by 10, 100 and 1000 (recap Y5) Convert decimal fractions to percentages and vice versa.</p> <p><b>Geometry</b> Identify the parts of a circle Understand graphs in four quadrants, translate and reflect shapes within four quadrants</p>	<p><b>Fractions and percentages</b> Finding the LCM Finding fractions of amounts Finding any percentage of an amount using known facts</p> <p><b>Shape</b> Recognising a range of polygons Understanding regular and irregular shape (Y5 recap)</p> <p><b>Converting units</b> Measure – recap Y5. Calculate with metric measures in mm cm m and km Converting imperial to metric Miles to km</p> <p><b>Problem solving</b> with metric measures using all four operations.</p> <p><b>Area and perimeter</b> Area of a triangle using rectangles Finding and comparing the area of compound shapes Perimeter of compound shapes (Y5 recap)</p>	<p><b>Ratio and proportion</b> Pictorial methods Calculating simple ratio Multiplication by scale factors Ratio and proportion problem solving – including missing values</p> <p><b>Algebra</b> Finding a rule Substitution Understanding formulae</p> <p><b>Angles</b> Recap – right angles, obtuse and acute Angles in a triangle and on a straight line Using known properties of types of triangle to solve problems Measuring accurately with a protractor (recap Y5)</p> <p><b>Statistics</b> Read and interpret pie charts Connecting knowledge angles around a point Connecting % to degrees eg <math>360^\circ = 100\%</math></p>	<p><b>Statistics</b> Interpreting line graphs (Y5 recap) Drawing and solving problems with line graphs Converting Measure Multiply and divide by 10, 100 and 1000 efficiently when converting measurement within problem solving</p> <p><b>Area and perimeter</b> <b>Recap Spring learning</b> Calculating volume using cubes Introduce formula for calculating volume</p> <p><b>Angles</b> Using knowledge of angles in triangles and rectangles to calculate missing angles</p> <p><b>Algebra</b> Recap spring learning Use simple formula to solve problems including with missing amounts</p> <p><b>Ratio</b> Recap learning from spr. 2</p>	<p><b>Time</b> Recap reading timetables, solving problems</p> <p><b>Geometry</b> Interpret nets of 3D shape</p> <p><b>Problem Solving</b> All four operations – using formal written methods</p> <p>Involving Shape, Measure Statistics Time</p>
	Mixed practice of all times tables to continue to ensure fluency and application of skills.					