

Maths long term plan

Nursery		
Autumn	Spring	Summer
<p>Daily whole class maths sessions Nursery rhymes during circle times (puppets) Daily book choice – comparison of height, counting, more, less than Enhancements in the classroom linked to topics</p> <p>Develop recognition of up to 2 objects without having to count Reciting numbers up to 3 Say one number for each item in order: 1,2,3 Show some finger numbers Recognises some numerals and beginning to link them to amounts Experiment with their own symbols and marks Select shapes appropriately for tasks Understand position through words alone Make comparisons between objects relating to size Talk about and identify patterns around them Solve real-life mathematical problems with numbers up to 2</p>	<p>Daily whole class maths sessions Nursery rhymes during circle times (puppets) Daily book choice – comparison of height, counting, more, less than Enhancements in the classroom linked to topics</p> <p>Develop recognition of up to 3 objects without having to count individually Reciting numbers up to 5 Say one number for each item in order Show some finger numbers Recognise numerals to 3 and able to link them to amounts Experiment with their own symbols and marks Solve real life mathematical problems with numbers up to 3 Compare quantities “more than” and “fewer than” Combines shapes to make new ones Explore and talk about different 2D and 3D shapes Discuss routes and locations Make comparisons between objects relating to length/height Extend and create ABAB patterns</p>	<p>Daily whole class maths sessions Nursery rhymes during circle times (puppets) Daily book choice – comparison of height, counting, more, less than Enhancements in the classroom linked to topics</p> <p>Develop recognition of up to 5 objects without having to count individually Recite numbers up to 10 Say one number for each item in order Show finger numbers up to 5 Know that the last number you counted tells you how many there are in total Recognise numerals to 5 and able to link them to amounts Experiment with their own symbols and marks Solve real-life mathematical problems with numbers up to 5 Explore and talk about different 2D and 3 D shapes, using informal mathematical language Describe a familiar route Make comparisons between objects relating to weight/capacity Notice and correct an error in a simple repeating pattern</p>

		Begin to describe a sequence of events using words such as first, then.
Reception		
Autumn	Spring	Summer
<p>'Just Like Me' <u>Number</u> Match and sort numbers Compare amounts</p> <p><u>Measure , Shape and special thinking</u> Compare size , mass, & capacity Exploring patern</p> <p>'It's me 1,2,3 <u>Number</u> Representing 1, 2, 3 Comparing 1, 2,3 Composition of 1,2,3</p> <p><u>Measure , Shape and special thinking</u> Circles and triangles Positional language</p> <p>'Light and dark' <u>Number</u></p>	<p>'Alive in 5' <u>Number</u> Introducing zero Comparing numbers to 5 Composition of 4&5</p> <p><u>Measure , Shape and special thinking</u> Compare mass Compare capacity</p> <p>'Growing 6,7,8' <u>Number</u> 6,7,8 Making pairs Combining 2 groups</p> <p><u>Measure , Shape and special thinking</u> Length & height time</p> <p>'Building 9 and 10' <u>Number</u></p>	<p>'To 20 and beyond' <u>Number</u> Building numbers beyond 10 Counting patterns beyond 10</p> <p><u>Spatial reasoning</u> Spatial reasoning Match, rotate, manipulate</p> <p>'first , then, now' <u>Number</u> Adding more Taking away</p> <p><u>Spatial reasoning</u> Spatial reasoning Compose and decompose</p> <p>'Find my pattern' <u>Number</u> Doubling Sharing and grouping</p>

<p>Representing numbers to 5 One more or less</p> <p><u>Measure , Shape and special thinking</u> Shapes with 4 sides Time</p>	<p>9&10 Comparing numbers to 10 Bonds tp 10</p> <p><u>Measure , Shape and special thinking</u> 3D shape pattern</p>	<p>Even and odd</p> <p><u>Spatial reasoning</u> Spatial reasoning Visualise and build</p> <p>'On the move' <u>Number</u> Deepening understanding Patterns and relationships <u>Spatial reasoning</u> Spatial reasoning mapping</p>
Year 1		
<u>Autumn</u>	<u>Spring</u>	<u>Summer</u>
<p>To read and write numbers from 1 to 20 in numerals and words</p> <p>To compare numbers and objects</p> <p>To order numbers and objects</p> <p>To identify 1 more or 1 less from a given number</p> <p>To read, write and interpret mathematical statements involving + - = signs.</p> <p>To understand fact families</p> <p>To represent and use number bonds and related subtraction and addition facts within 10.</p> <p>To use subtraction to find the difference.</p>	<p>To read and write numbers from 1 to 50 in numerals and words</p> <p>To identify 1 more or 1 less from a given number</p> <p>To add and subtract 1-digit and 2- digit numbers to 20, including zero.</p> <p>To solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems.</p> <p>To measure and begin to record the following: mass/weight.</p> <p>To measure and begin to record the following: length and heights.</p>	<p>To count to and across 100, forward and backward, beginning with 0 or 1, or from any given number.</p> <p>To solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of my teacher.</p> <p>To recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.</p> <p>To recognise and use language relating to dates, including days of the week, weeks, months, years.</p>

<p>To recognise and name common 2D shapes, including circles and triangles.</p> <p>To recognise and name common 3D shapes, including: cuboids (including cubes), pyramids, spheres.</p>	<p>To measure and begin to record the following: capacity and volume.</p> <p>To compare, describe and solve practical problems for: lengths and heights and mass/weight</p> <p>To compare, describe and solve practical problems for: capacity and volume</p>	<p>To tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.</p> <p>To sequence events in chronological order using language (e.g. before, after, next, first, today, yesterday, tomorrow, morning, afternoon, evening).</p> <p>To compare, describe and solve practical problems for: time.</p> <p>To recognise and know the value of different denominations of coins and notes.</p> <p>To describe position, direction and movement, including half, quarter and three-quarter turns .</p>
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Year 2

<u>Autumn</u>	<u>Spring</u>	<u>Summer</u>
<p>To count in steps of 2 and 5 from 0, and in tens from any number, forward and backward.</p> <p>To read and write numbers to at least 100 in numerals and in words.</p> <p>To compare and order numbers from 0 up to 100; use < > and = signs.</p> <p>To recognise the place value of each digit in a 2-digit number.</p>	<p>To calculate the mathematical statements for multiplication and division within the multiplication tables and write them using the x ÷ and = signs.</p> <p>To understand that multiplication of two numbers can be one in any order (commutative) and division of one number by another cannot.</p> <p>To recognise that division is the inverse of multiplication and use to check calculations.</p>	<p>To tell and write the time to quarter past/to the hour and draw the hands on a clock face to show these times.</p> <p>To compare and sequence intervals of time.</p> <p>To choose and use appropriate standard units to estimate and measure: length/height in any direction (m/cm); mass (kg/g) to the nearest appropriate unit, using rulers and scales.</p>

<p>To count in steps of 3 from 0, and in tens from any number, forward and backward.</p> <p>To recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100.</p> <p>To add and subtract numbers mentally, including: 2-digit numbers and ones; 2-digit numbers and tens; two 2-digit numbers; adding three 1-digit numbers.</p> <p>To understand that addition of any two numbers can be done in any order (commutative) and subtraction of one number from another cannot.</p> <p>To recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.</p> <p>To make equal groups</p> <p>To recognise and use symbols for pounds (£) and pence (p); combine amounts to make particular values.</p> <p>To find different combinations of coins that equal the same amounts of money.</p>	<p>To recall and use multiplication and division facts for the 2, 5 and 10 tables, including recognising odd and even numbers.</p> <p>To identify 2D shapes on the surface of 3D shapes.</p> <p>To identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line.</p> <p>To identify and describe the properties of 3D shapes, including the number of edges, vertices and faces.</p> <p>To compare and sort common 2D and 3D shapes and everyday objects.</p> <p>To order and arrange combinations of mathematical objects in patterns and sequences.</p> <p>To ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.</p> <p>To ask and answer questions about totalling and compare categorical data</p> <p>To interpret and construct: pictograms; tally charts; block diagrams and simple tables.</p>	<p>To compare and order lengths and mass, and record the results using $>$, $<$ and $=$.</p> <p>To choose and use appropriate standard units to estimate and measure: temperature ($^{\circ}\text{C}$); capacity (l/ml) to the nearest appropriate unit, using thermometers and measuring vessels.</p> <p>To use mathematical vocabulary to describe position, direction and movement, including movement in a straight line distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).</p> <p>To write simple fractions and recognise the equivalence.</p> <p>To recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ of a length, shape, set of objects, or quantity.</p>
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<p>To solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.</p>		
Year 3		
<u>Autumn</u>	<u>Spring</u>	<u>Summer</u>
<p><u>Place Value</u> Represent numbers to 100 Partition numbers to 100 Number line to 100 Hundreds Represent numbers to 1,000 Partition numbers to 1,000 Flexible partitioning of numbers to 1000 Hundreds, tens and ones Find 1, 10 or 100 more or less Number line to 1,000 Estimating on a number line to 1,000 Compare numbers to 1,000 Order numbers to 1,000 Count in 50s</p> <p><u>Addition and Subtraction</u> Apply number bonds within 10 Add and subtract 1s Add and subtract 10s Add and subtract 100s Spot the pattern Add 1s across a 10 Add 10s across a 100</p>	<p><u>Multiplication and division</u> Multiples of 10 Multiply 2 digit by 1 digit, no exchange Multiply 2 digit by 1 digit, with exchange Link multiplication with division Divide 2 digit by 1 digit no exchange Divide 2 digit by 1 digit with exchange</p> <p><u>Length and Perimeter</u> Measure length in cm and m Measure in mm M, CM, MM Equivalent lengths m and cm Equivalent lengths mm and cm Compare lengths Add lengths Subtract lengths Measure perimeter Calculate perimeter</p> <p><u>Fractions</u> Understand denominators of unit fractions Compare and order unit fractions Understand the numerator of non unit fractions Understand a whole</p>	<p><u>Fractions</u> Making the whole Tenths Count in tenths Tenths as decimals Fractions on a number line fractions of a set of objects equivalent fractions compare fractions order fractions Add fractions Subtract fractions</p> <p><u>Money</u> Pounds and pence Convert pounds and pence Add money Subtract money Give change</p> <p><u>Time</u> O clock</p>

<p>Subtract 1s across a 10 Subtract 10s across a 100 Make connections Add two numbers (no exchange) Subtract two numbers (no exchange) Add two numbers (across a 10) Add two numbers (across a 100) Subtract two numbers (across a 10) Subtract two numbers (across a 100) Add 2-digit and 3-digit numbers Subtract a 2-digit number from a 3-digit number Complements to 100 Estimate answers Inverse operations Make decisions</p> <p><u>Multiplication and Division</u></p> <p>Multiplication - equal groups Use arrays Multiples of 2 Multiples of 5 and 10 Sharing and grouping Multiply by 3 Divide by 3 The 3 times-table Multiply by 4 Divide by 4 The 4 times-table Multiply by 8 Divide by 8 The 8 times-table The 2, 4 and 8 times-tables</p>	<p>Fractions and scales Fractions on a number line Count in fractions on a number line Equivalent fractions on a number line Equivalent fractions as bar models</p> <p><u>Mass and capacity</u></p> <p>Use scales Measure mass in grams Measure in KG and G Equivalent masses Compare mass Add and subtract mass Measure capacity and volume in ml Measure capacity and volume in l and ml Equivalent capacity Compare capacity Add and subtract capacity and volume</p>	<p>Quarter past quarter to Months and years Hours in a day Telling the time to 5 minutes Telling the time to 1 minute Using am and pm 24 hour clock Finding duration Comparing duration Start and end times Measuring times in seconds Problem solving with time</p> <p><u>Properties of shape</u></p> <p>Turns and angles Right angles in shapes Compare angles Draw accurately Horizontal and vertical Parallel and perpendicular Recognise and describe 2d shapes Recognise and describe 3d shapes Make 3D shapes</p> <p><u>Statistics</u></p> <p>Make tally charts Draw pictograms Interpret pictograms Bar charts Tables</p>
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Year 4

<u>Autumn</u>	<u>Spring</u>	<u>Summer</u>
<p>Place Value</p> <ul style="list-style-type: none"> -Represent numbers to 1,000 -Partition numbers to 1,000 -Number line to 1,000 -Thousands -Represent numbers to 10,000 -Partition numbers to 10,000 -Flexible partitioning of numbers to 10,000 -Find 1, 10, 100, 1,000 more or less -Number line to 10,000 -Estimate on a number line to 10,000 -Compare numbers to 10,000 -Order numbers to 10,000 -Roman numerals -Round to the nearest 10 -Round to the nearest 100 -Round to the nearest 1,000 -Round to the nearest 10, 100 or 1,000 <p>Addition and subtraction</p> <ul style="list-style-type: none"> -Add and subtract 1s, 10s, 100s and 1,000s -Add up to two 4-digit numbers - no exchange -Add two 4-digit numbers - one exchange -Add two 4-digit numbers– more than one exchange -Subtract two 4-digit numbers - no exchange -Subtract two 4-digit numbers - one exchange -Subtract two 4-digit numbers – more than one exchange -Efficient subtraction -Estimate answers 	<p>-Multiplication and division</p> <ul style="list-style-type: none"> Factor pairs -Use factor pairs -Multiply by 10 -Multiply by 100 -Divide by 10 -Divide by 100 - Informal written methods for multiplication -Multiply a 2-digit number by a 1-digit number -Multiply a 3-digit number by a 1-digit number -Divide a 2-digit number by a 1-digit number (1) -Divide a 3-digit number by a 1-digit number -Correspondence problems -Efficient multiplication <p>Length and Perimeter</p> <ul style="list-style-type: none"> -Measure in kilometres and metres -Equivalent lengths (kilometres and metres) -Perimeter on a grid -Perimeter of a rectangle -Perimeter of rectilinear shapes -Find missing lengths in rectilinear shapes -Calculate perimeter of rectilinear shapes -Perimeter of regular polygons <p>Fractions</p> <ul style="list-style-type: none"> -Understand the whole -Count beyond 1 -Partition a mixed number -Number lines with mixed numbers -Compare and order mixed numbers 	<p>Decimals</p> <ul style="list-style-type: none"> Make a whole Write decimals Compare decimals Order decimals Round decimals Halves and quarters <p>Money</p> <ul style="list-style-type: none"> -Pounds & pence -Ordering money -Add money -Subtract money -Multiply money -Divide money <p>Time</p> <ul style="list-style-type: none"> -Units of time -Hours, minutes, seconds -Weeks, months, years -12 hour and 24-hour clocks <p>Statistics</p> <ul style="list-style-type: none"> -Bar charts -Pictograms -Interpret charts -Using tables -Line graphs <p>Geometry</p> <ul style="list-style-type: none"> -2D Shapes -Comparing angles

<p>-Checking strategies</p> <p>Measurement: Area</p> <p>-What is area?</p> <p>-Counting squares</p> <p>-Make shapes</p> <p>- Compare area</p> <p>Multiplication and division</p> <p>-Multiply by 10 & 100</p> <p>-Divide by 10 & 100</p> <p>-Multiply by 1 & 0</p> <p>-Divide by 1 and itself</p> <p>-To recognise and use factor pairs and commutativity in mental calculations.</p> <p>-To multiply 2-digit and 3-digit numbers by a 1-digit number using formal written layout.</p> <p>-To divide 2-digit and 3-digit numbers by a 1-digit number using formal written layout with no remainder.</p>	<p>-Understand improper fractions -Convert mixed numbers to improper fractions</p> <p>-Convert improper fractions to mixed numbers</p> <p>-Equivalent fractions on a number line</p> <p>-Equivalent fraction families</p> <p>-Add two or more fractions</p> <p>-Add fractions and mixed numbers</p> <p>-Subtract two fractions</p> <p>-Subtract from whole amounts</p> <p>-Subtract from mixed numbers</p> <p>Decimals</p> <p>-Tenths as decimals</p> <p>-Tenths on a place value chart</p> <p>-Tenths on a number line</p> <p>-Divide a 1-digit number by 10</p> <p>-Divide a 2-digit number by 10</p> <p>-Hundredths as fractions</p> <p>-Hundredths as decimals</p> <p>-Hundredths on a place value</p> <p>-Divide a 1- or 2-digit number by 100</p>	<p>-Identify angles</p> <p>-Triangles</p> <p>-Quadrilaterals</p> <p>-Line of symmetry</p> <p>Position & Direction</p> <p>-Position</p> <p>-Co-ordinates</p> <p>-Translations</p>
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Year 5

<p><u>Autumn</u></p>	<p><u>Spring</u></p>	<p><u>Summer</u></p>
<p>Place Value</p> <p>-Roman numerals to 1,000</p> <p>-Numbers to 10,000</p> <p>-Numbers to 100,000</p> <p>-Numbers to 1,000,000</p> <p>-Read and write numbers to 1,000,000</p> <p>-Powers of 10</p>	<p>Multiplication & Division B</p> <p>- Multiply up to a 4-digit number by a 1-digit number</p> <p>- Multiply a 2-digit number by a 2-digit number (area model)</p> <p>-Multiply a 2-digit number by a 2-digit number</p>	<p>Shape</p> <p>Measuring angles in degrees</p> <p>Measuring with a protractor</p> <p>Drawing lines and angles accurately</p> <p>Calculating angles on a straight line</p> <p>Calculating angles round a point</p> <p><u>Calculating lengths and angles in shapes</u></p>

<p>-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> <p>Addition and subtraction -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 -Find missing numbers</p> <p>Multiplication & Division A -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</p> <p>Fractions A</p>	<p>- 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</p> <p>Fractions B - 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</p> <p>Decimals & Percentages -Decimals up to 2 decimal places -Equivalent fractions and decimals (tenths) - Equivalent fractions and decimals (hundredths) -Equivalent fractions and decimals</p> <p>Decimals & Percentages - 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</p>	<p>Regular and irregular polygons Reasoning about 3d shapes</p> <p>Negative numbers</p> <p>Position & Direction Position in the first quadrant Reflection Reflection with coordinates Translation with coordinates</p> <p>Decimals Adding and subtracting decimals within 1 Complements to 1 Adding decimals crossing the whole Adding and subtracting decimals with the same number of decimal places Adding and subtracting decimals with a different number of decimal places Adding and subtracting wholes as decimals Decimal sequences Multiplying and dividing decimals by 10,100 and 1000</p> <p>Measurement - converting units Kilograms & kilometres Milligrams & millilitres Metric & Imperial units</p> <p>Volume Compare volume Estimate volume Estimate capacity</p>
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<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 	<ul style="list-style-type: none"> - Round to 1 decimal place - Understand percentages - Percentages as fractions - Percentages as decimals - Equivalent fractions, decimals and percentages <p>Perimeter & Area</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 <p>Statistics</p> <ul style="list-style-type: none"> - Draw line graphs - 2 Read and interpret line graphs - Read and interpret tables - Two-way tables - Read and interpret timetables 	
Year 6		
Autumn	Spring	Summer
<p>Place Value 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</p>	<p>Ratio & Proportion – add or multiply, use ratio language, ratio symbol, ratio and fractions, scale drawings, scale factors, ratio problems, proportion problems</p> <p>Algebra – function machines, form expression, substitution, formula, 1 & 2 step equations, solving problems with 2 unknowns</p> <p>Decimals – place value within 1, round decimals, add, subtract, multiply & divide decimals</p>	<p>Properties of shape Measuring with a protractor, calculating angles, vertically opposite angles, angles in triangle, angles in special quadrilaterals, angles in regular polygons, drawing shapes accurately and drawing nets of 3d shapes</p> <p>Position and direction The first quadrant Four quadrants</p>

<p>Addition, subtraction, multiplication and division 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</p> <p>Fractions (and decimals) 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 Multiply fractions by integers Multiply fractions by fractions</p>	<p>Fractions, decimals & percentages – decimal and fraction equivalents, fractions as division, understanding %, fractions as %, equivalent fractions, decimals and %, percentage of amount Area, Perimeter & Volume – area & perimeter, area of triangles, area of a parallelogram, volume of a cuboid Statistics - line graphs, dual bar charts, pie charts, mean</p>	<p>Translations reflections</p>
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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

Converting Units

Metric measures
Convert metric measures
Calculate with metric measures
Miles and kilometres
Imperial measures