

Maths Overview



Autumn 1

Autumn 2

Spring 1

Spring 2

Summer 1

Summer2

Pre 3 Nursery

Spatial Awareness/ Positional Language
 Moves their bodies and toys around objects and explores fitting into spaces

 Begins to remember their way around familiar environments

Shape
 Chooses puzzle pieces and tries to fit them in

Counting
 Begins to say numbers in order, some of which are in the right order (ordinality)

Pattern
 Joins in and anticipates repeated sound and action patterns

Measure
 Beginning to anticipate times of the day such as mealtimes or home time

Spatial Awareness/ Positional Language
 Responds to some spatial and positional language

 Explores how things look from different viewpoints including things that are near or far away

Shape
 Recognises that two objects have the same shape

 Makes simple constructions

Counting
 Cardinality (how many) – in everyday situations, takes or gives two or three objects from a group

 Beginning to notice numerals (number symbols)

 Beginning to count on their fingers

Comparing Quantities and Numbers
 Beginning to compare and recognise changes in numbers of things, using words like more, lots or 'same'

Pattern
 Is interested in what happens next using the pattern of everyday routines

Measure
 Explores differences in size, length, weight and capacity

 Beginning to understand some talk about immediate past and future

Nursery

Counting
 Reciting numbers up to 3. Say one number for each item in order: 1, 2, 3

Mark Making
 Experiment with their own symbols and marks

Shape
 Select shapes appropriately: flat surfaces for building, a triangular prism for roof etc.

Subitising
 Develop fast recognition of up to 3 objects without having to count them individually

Linking Numerals and Amounts
 Links numerals and amounts up to 3

Positional Language
 Understand position through words alone including direction and spatial words in play

Counting
 Reciting numbers up to 5. Say one number for each item in order: 1, 2, 3, 4, 5. Show 'finger numbers' up to 5. Cardinal Principle – know that the last number reached when counting a small set of objects tells you how many there are in total

Comparing Quantities and Numbers
 Compare quantities using language: 'more than', 'fewer than'

Shape
 Combine shapes to make new ones – an arch, a bigger triangle etc.

Linking Numerals and Amounts
 Link numerals and amounts up to 5

Mark Making
 Experiment with their own symbols and marks

Pattern
 Extend and create ABAB patterns e.g. stick, leaf, stick, leaf. Notice and correct an error in a repeating pattern

Counting
 Reciting numbers up to 10. Cardinal Principle – know that the last number reached when counting a small set of objects tells you how many there are in total

Mark Making
 Experiment with their own symbols and marks as well as numerals

Comparing Quantities and Numbers
 Compare quantities using language: 'more than', 'fewer than'

Shape
 Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners', 'straight', 'flat', 'round'. Partitioning and combining shapes to make new shapes. Predicting, moving and rotating objects to create new shapes

	<p>Pattern Talk about and identify patterns, using informal language</p> <p>Measure Make comparisons between objects relating to size</p> <p>Problem Solving and Composition of Numbers Solve real world mathematical problems with numbers up to 2</p>	<p>Measure Make comparisons between objects relating to length</p> <p>Problem solving and Composition of Numbers Solve real world mathematical problems with numbers up to 3</p>	<p>Positional Language Understand position through words alone using a sentence. Discuss routes and locations, using words like 'in front of' and 'behind'. Describe a familiar route, giving directions</p> <p>Pattern Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then' ... and predicting what comes next. Recall a sequence of events in everyday life and stories</p> <p>Measure Make comparisons between objects relating to weight and capacity</p> <p>Problem solving and Composition of Numbers Solve real world mathematical problems with numbers up to 5</p>			
Reception	<p>Counting Counts objects, actions and sounds – recites numbers to 10 and beyond and back again</p> <p>Cardinal counting</p> <p>Counts out up to 10 objects from a larger group</p> <p>Linking Numerals and Amounts Link the number symbol (numeral) with its cardinal number value – matches the numeral with a group of items to show how many there are up to 10</p> <p>Measure Compare length, weight and capacity – becomes familiar with measuring tools in everyday experiences and play</p> <p>Problem solving and Composition of Numbers Numbers 2 & 3 – shows awareness that numbers are composed of smaller numbers, exploring portioning in different ways with a wide range of objects</p> <p>Begins to explore and work out mathematical problems, using signs and strategies of their own choice including (when appropriate) standard numerals, tallies and "+" or "-" odd or even and double</p>	<p>Counting Counts objects, actions and sounds – sequencing numerals in order 0-10</p> <p>Subitising Subitise – numbers to 4 and maybe 5</p> <p>Shape and Space Select, rotate and manipulate shapes to develop spatial reasoning skills – uses informal language, analogies & mathematical terms to describe shapes. Uses spatial language, including following and giving directions, using relative terms and describing what they see from different viewpoints</p> <p>Counting Count beyond 10 – recognising the pattern of the counting system</p> <p>Comparing Quantities and Numbers Compare Numbers – uses number names and symbols, showing interest in large numbers. Estimates of things, showing understanding of relative size. Odd and even, fair and unfair when sharing quantities</p> <p>Time Order and sequence events using everyday language.</p>	<p>Subitising Subitise – conceptually subitise larger numbers by subitising smaller groups within the number</p> <p>Comparing Quantities and Numbers Understand the 'one more than/one less than' relationship between consecutive numbers – in practical activities, adds 1 and subtracts 1 with numbers to 10. Number lines. Staircase patterns.</p> <p>Pattern Continue, copy and create repeating patterns – spots patterns in the environment, beginning to identify 'rule' (including AB, ABB, ABBC)</p> <p>Shape and Space Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can – enjoys composing and decomposing shapes combine to make other shapes. Uses own ideas to make models of increasing complexity, selecting blocks needed, solving problems, and visualising what they will build. Investigates turning and flipping objects in order to make shapes fit and create models; predicting and visualising how they will look (spatial reasoning)</p> <p>Problem solving and Composition of Numbers</p>	<p>Pattern Continue, copy and create repeating patterns – create and recreate repeating patterns, beyond AB patterns and identify the unit of repeat</p> <p>Measure Compare length, weight and capacity – problems involving prediction and comparisons of length, weight or capacity, paying attention to fairness and accuracy</p> <p>Shape and Space Select, rotate and manipulate shapes in order to develop spatial reasoning skills – create simple maps of familiar/imaginative environments with landmarks</p> <p>Problem solving and Composition of Numbers Numbers 8 & 9 – shows awareness that numbers are composed of smaller numbers, exploring portioning in different ways with a wide range of objects. Explore and work out mathematical problems, using signs and strategies of their own choice including (when appropriate) standard numerals, tallies and "+" or "-" odd or even and double</p>	<p>Number Bonds Automatically recall number bonds for numbers 0-5 (including subtraction facts)</p> <p>Time Experience measuring time with timers and calendars</p> <p>Problem solving and Composition of Numbers Number 10 - shows awareness that numbers are composed of smaller numbers, exploring portioning in different ways with a wide range of objects. Explore and work out mathematical problems, using signs and strategies of their own choice including (when appropriate) standard numerals, tallies and "+" or "-" odd or even and double</p>	<p>Measure Compare length, weight and capacity – problems involving prediction and discussion of comparisons of length, weight or capacity, paying attention to fairness and accuracy</p> <p>Statutory ELG: Number: Have a deep understanding of number to 10, including the composition of each number.</p> <p>Subitise (recognise quantities without counting) up to 5.</p> <p>Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.</p> <p>Statutory ELG: Numerical Patterns: Verbally count beyond 20, recognising the pattern of the counting system.</p> <p>Compare quantities up to 10 in different contexts, recognising when 1 quantity is greater than,</p>

		<p>Experience measuring time with timers and calendars</p> <p>Problem solving and Composition of Numbers Numbers 4 & 5 -shows awareness that numbers are composed of smaller numbers, exploring portioning in different ways with a wide range of objects. Explore and work out mathematical problems, using signs and strategies of their own choice including (when appropriate) standard numerals, tallies and "+" or "-" odd or even and double</p>	<p>Numbers 6 & 7 - shows awareness that numbers are composed of smaller numbers, exploring portioning in different ways with a wide range of objects. Explore and work out mathematical problems, using signs and strategies of their own choice including (when appropriate) standard numerals, tallies and "+" or "-" odd or even and double</p>			<p>less than, or the same as the other quantity.</p> <p>Explore and represent patterns within numbers up to 10 including evens and odds, double facts and how quantities can be distributed equally.</p>
Year 1	<p>Number and Place Value</p> <ul style="list-style-type: none"> To read and write numbers from 0-20. Identify one more and one less of a given number. To complete a number sequence (forwards and backwards). <p>Addition and Subtraction</p> <ul style="list-style-type: none"> Read, write and interpret mathematical statements (+, - and =) Number bond facts to 10 and 20. Add and subtract numbers. Solve simple one-step problems involving addition and subtraction. <p>2D/3D shapes Recognise and name common 2D and 3D shapes.</p> <p>Sequencing and Sorting</p> <ul style="list-style-type: none"> Recognise and create repeating patterns with numbers, objects and shapes. Identify odd and even numbers. Sort objects, number and shapes. Sort objects, number and shapes to a given criterion and their own. 	<p>Length, mass and weight</p> <ul style="list-style-type: none"> Compare and describe lengths, heights and weights. Measure and begin to record lengths, heights and weights. Solve practical problems relating to lengths and weight. <p>Capacity and Volume</p> <ul style="list-style-type: none"> Compare and describe capacity/volume (e.g. full, empty, half full) Measure and begin to record capacity. <p>Money</p> <ul style="list-style-type: none"> Recognise and know the value of different coins. <p>Time</p> <ul style="list-style-type: none"> Sequence events in chronological order. Recognise and use language relating to dates, including days of the week, weeks, months and years. Measure and begin to record time. 	<p>Number and Place Value</p> <ul style="list-style-type: none"> Identify ten more and ten less. Order numbers to 50. Recognise the place value of numbers beyond 20 (tens and ones) Read and write numbers from 1 to 20 in numerals and words. Use the language of equal to, more than and less than. <p>Addition and subtraction</p> <ul style="list-style-type: none"> Represent and use number bonds and related subtraction facts within 20. Subtract one-digit and two-digit numbers to 20 using 'difference' as find how many more to make. Solve problems relating to finding the difference. <p>2D and 3D Shapes</p> <ul style="list-style-type: none"> Begin to recognise properties of 2D and 3D shapes. 	<p>Measurement - Length, Mass and Weight</p> <ul style="list-style-type: none"> Measure and record lengths/heights. Measure and record mass/weight. Solve practical problems for lengths, heights and masses/weights. <p>Money</p> <ul style="list-style-type: none"> Recognise and know the value of different coins and notes. Solve practical problems relating to coins. <p>Position and Direction</p> <ul style="list-style-type: none"> Describe position, direction and movements using half, quarter and three quarter turns. <p>Time</p> <ul style="list-style-type: none"> Tell the time to the hour and half past. Draw times on a clock. Measure and begin to record time. Solve practical problems relating to time. 	<p>Measurement – Capacity/Volume</p> <ul style="list-style-type: none"> Record capacity and volume using non-standard and standard units. Solve practical problems relating to capacity/volume. <p>Fractions</p> <ul style="list-style-type: none"> Recognise, find and name a half as one of two equal parts of a quantity. Recognise, find and name a quarter as one of four equal parts of a quantity. <p>Multiplication and Division</p> <ul style="list-style-type: none"> Solve one step problems involving multiplication and division by calculating the answer using concrete objects, pictorial representations and arrays with teacher support. Counting multiplies of twos, fives and tens. Recall and use doubles/halves of all numbers to 10. 	<p>Money</p> <ul style="list-style-type: none"> Recognise and know the value of different coins and notes. Solve practical problems relating to money. <p>Addition and subtraction</p> <ul style="list-style-type: none"> Represent and use number bonds and related subtraction facts within 20. Subtract one-digit and two-digit numbers to 20 using 'difference' as find how many more to make. Solve problems relating to finding the difference. <p>Number and Place Value</p> <ul style="list-style-type: none"> Identify ten more and ten less. Order numbers to 50. Recognise the place value of numbers beyond 20. Read and write numbers from 1 to 20 in numerals and words. Recognise the place value of numbers beyond 20 (tens and ones). Use the language of equal to, more than and less than <p>Statistics</p> <ul style="list-style-type: none"> Ask and answer questions by comparing categorical data.

<p style="text-align: center;">Year 2</p>	<p>Number and Place Value</p> <ul style="list-style-type: none"> Counting forwards and backwards to 20, 50 and compare numbers Represent numbers to 100 Use a place value chart Compare and order numbers Use place value and number facts to solve problems Recognise the place value of each digit in a 2-digit number (Tens/Units) Count in steps of 2, 5 and 10 from 0 and in tens from any number forward and backward Read and write numbers to at least 100 in numerals and in words <p>Addition and Subtraction</p> <ul style="list-style-type: none"> Addition and subtraction to 20 (bonds) Compare number sentences Bonds to 100 (tens) Add take away 1 10 more 10 less Add and take away 10 Understand 10 more/10 less Check calculations 	<p>Addition and Subtraction</p> <ul style="list-style-type: none"> Add and subtract numbers using concrete objects, pictorial representations and mentally including: a 2-digit number and ones; a 2-digit number and tens; 2, 2-digit numbers; adding 3, 1-digit numbers Add take away numbers crossing 10 Add take away numbers not crossing 10 Add 3-digit numbers <p>Measurement – Money</p> <ul style="list-style-type: none"> Recognise coins (p and £) Recognise notes Count money (coins and notes) Make amounts/totals Compare money Find the difference/give change Understand the value of coins Add coins together Use p and £ sign 2 step problems 	<p>Multiplication and Division</p> <ul style="list-style-type: none"> Division (sharing equally, division into equal groups and working with a remainder) Complete multiplication sentences Complete sums using arrays Double numbers Times table 2, 5, 10 Making and sharing equal groups Divide 2, 5, 10 Odd and even numbers <p>Statistics</p> <ul style="list-style-type: none"> Making tally charts Interpret tally charts Draw and interpret pictograms Complete block diagrams 	<p>Geometry – properties of shapes</p> <ul style="list-style-type: none"> Recognise and describe the properties of 2d shapes (including the number of sides) Draw Lines of symmetry Identify and describe the properties of 3d shapes, including the number of edges, vertices and faces Compare and sort common 2d and 3d shapes and everyday objects (2D/3D shapes) Sort and make patterns with 2D shapes <p>Fractions</p> <ul style="list-style-type: none"> Work with parts and wholes Find and recognise half Find and recognise a quarter Find and recognise a third Recognise equivalent fractions $\frac{1}{2}$ and $\frac{2}{4}$ Find $\frac{3}{4}$ 	<p>Measurement – length and height</p> <ul style="list-style-type: none"> Compare length and height Measure length (cm and m) Compare and order lengths Complete 4 operations (+, -, x /) with length Problem solving with length <p>Geometry – position and direction</p> <ul style="list-style-type: none"> Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line. (Position and movement) Distinguish between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise) Making patterns with shapes 	<p>Measurement – time</p> <ul style="list-style-type: none"> Tell time to the hour Tell time to half hour Tell time to $\frac{1}{4}$ and $\frac{3}{4}$ Tell time to 5 minutes Write the time Understand hours and days Find durations of time Compare durations of time <p>Measurement - mass, capacity and temperature</p> <ul style="list-style-type: none"> Develop understanding of weight and mass Measure and compare mass Measure mass in grams and Kg Develop understanding of capacity and volume Measure and compare volume Measure in ml and l Complete 4 operations (+, -, x /) with mass and volume Develop understanding of temperature Measure and compare temperature in C.
<p style="text-align: center;">Year 3</p>	<p>Place Value:</p> <ul style="list-style-type: none"> Read and write numbers to at least 1000 Recognise place value of each digit in 3 digit number Compare and order numbers to 1000 Round numbers to at least 1000 to the nearest 10 and 100 <p>Mental calculation:</p> <ul style="list-style-type: none"> -Find 1, 10 or 100 more or less from a given number -Add U and T mentally from HTU -Subtract u and T mentally from HTU <p>2d shape:</p>	<p>Counting Multiplication Tables (3x 4x)</p> <ul style="list-style-type: none"> Count from 0 in multiples of 4. Recall and use multiplication and division facts for the 3 and 4 times tables. Describe and extend number sequences involving counting on or back in different steps. <p>Written & mental X</p> <ul style="list-style-type: none"> -Write and calculate mathematical statements -Solve problems, including missing number problems involving multiplication, including positive integer 	<p>Place Value Mental + & -</p> <ul style="list-style-type: none"> Find 1, 10 or 100 more or less than a given number. Count from 0 in multiples of 50 and 100. Describe and extend number sequences involving counting on or back in different steps. Add and subtract mentally: - a three-digit number and ones a three-digit number and tens a three-digit number and hundreds. <p>Fractions</p>	<p>2d & 3d shape – sorting</p> <ul style="list-style-type: none"> Recognise 3-D shapes in different orientations and describe them. Recognise that angles are a property of a shape or a description of a turn. Identify whether angles are greater than or less than a right angle. Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. <p>+ & - statistics</p> <ul style="list-style-type: none"> Add numbers with up to three digits, using formal 	<p>Multiplication facts – statistics</p> <ul style="list-style-type: none"> Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. <p>X & ÷ measures</p> <ul style="list-style-type: none"> Write and calculate mathematical statements for division using the multiplication tables that they know, including for two-digit numbers divided by one-digit numbers, using mental and progressing to formal written methods. <p>2d shape – sorting</p>	<p>Revision of: <i>Place value in the context of measures</i></p> <p>Mental calculation in a variety of contexts, including money, measures and statistics</p> <p>Fractions in practical contexts</p> <p>Measures</p> <ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). Measure the perimeter of simple 2-D shapes. <i>Solve problems involving measures.</i>

<ul style="list-style-type: none"> -Draw 2D shape and describe them <p>Length including perimeter</p> <ul style="list-style-type: none"> -Measure, compare, add and subtract lengths (mm, cm & m) -Understand perimeter is a measure of distance around a boundary of a shape -Measure the perimeter of a 2D shape <p>Statistics</p> <ul style="list-style-type: none"> -Interpret and present data using bar charts and tables -Solve one and two step problems <p>Written addition</p> <ul style="list-style-type: none"> -To add numbers with up to three digits using column addition -To estimate the answer to the calculation and use the inverse. <p>Written subtraction</p> <ul style="list-style-type: none"> -To subtract numbers with up to three digits using column subtraction <ul style="list-style-type: none"> - To estimate the answer to the calculation and use the inverse. 	<ul style="list-style-type: none"> scaling problems and correspondence problems in which n objects are connected to m objects. Written & mental \div -Write and calculate mathematical statements for division using the multiplication tables that they know, including for two-digit numbers divided by one-digit numbers, using mental and progressing to formal written methods. <ul style="list-style-type: none"> <i>Solve problems involving money and measures.</i> Solve problems, including missing number problems, involving division (and interpreting remainders) and correspondence problems in which n objects are connected to m objects. <p>Time</p> <ul style="list-style-type: none"> -Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks. -Estimate and read time with increasing accuracy to the nearest minute. -Record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight. -Know the number of seconds in a minute and the number of days in each month, year and leap year. Solve simple problems involving passage of time. <p>3d shape</p> <ul style="list-style-type: none"> -Make 3-D shapes using modelling materials. 	<ul style="list-style-type: none"> Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators. Understand that finding a fraction of an amount relates to division. Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. Show practically or pictorially that a fraction is one whole number divided by another (for example, $\frac{3}{4}$ can be interpreted as $3 \div 4$). <p>Fractions and Division</p> <ul style="list-style-type: none"> Understand that finding a fraction of an amount relates to division. Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. Understand how division statements can be represented using arrays. Understand division as sharing and grouping and use each appropriately. <p>Volume & capacity</p> <ul style="list-style-type: none"> Measure, compare, add and subtract volumes and capacities. Solving measurement Problems Solve problems involving and measures. <p>Mass</p> <ul style="list-style-type: none"> Measure, compare, add and subtract masses. Solving measurement Problems 8X table Count from 0 in multiples of 8. Recall and use multiplication and division 	<p>written method of columnar addition.</p> <ul style="list-style-type: none"> Subtract numbers with up to three digits, using formal written method of columnar subtraction. Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. Solve one-step and two-step questions such as 'How many more?' and 'How many fewer?' using information presented in scaled bar charts and pictograms and tables. <p>Fractions</p> <ul style="list-style-type: none"> Recognise and show, using diagrams, equivalent fractions with small denominators. Add and subtract fractions with the same denominator within one whole (using diagram) (for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$). Compare and order unit fractions and fractions with the same denominators (including on a number line). <p>Position & direction</p> <ul style="list-style-type: none"> Use mathematical vocabulary to describe position, direction and movement, including distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise), and movement in a straight line. (Year 2 objective) Describe positions on a square grid labelled with letters and numbers. <p>Time</p>	<ul style="list-style-type: none"> Draw 2-D shapes and describe them. Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. Measure the perimeter of simple shapes. Recognise that angles are a property of a shape or a description of a turn. Identify right angles, recognise that two right angles make a half turn, three make three quarters of a turn and four a complete turn. Identify whether angles are greater than or less than a right angle. <p>Decimals</p> <ul style="list-style-type: none"> Count up and down in tenths. Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10. Identify the value of each digit to one decimal place. Read and write numbers with one decimal place. Compare and order numbers with one decimal place. Continue to recognise and use symbols for pounds (£) and pence (p) and understand that the decimal point separates pounds and pence. Recognise that ten 10p coins are equivalent to £1 and that each coin is $\frac{1}{10}$ of £1. <p>+ & - money</p> <ul style="list-style-type: none"> <i>Solve problems involving money</i> Add and subtract amounts of money to give change, using both £ and p in practical contexts. 	<p>Statistics</p> <ul style="list-style-type: none"> Interpret and present data using bar charts, pictograms and tables. Solve one-step and two-step questions such as 'How many more?' and 'How many fewer?' using information presented in scaled bar charts and pictograms and tables.
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Year 4	<p>Number and place value Recognise the place value of each digit in a four-digit number including decimals</p> <p>Round any number to the nearest 10, 100 or 1000</p> <p>Find 0.1, 1, 10, 100 or 1000 more or less than a given number.</p> <p>Addition and Subtraction Add and subtract numbers with up to 4 digits and decimals with one decimal place using the formal written methods of columnar addition and subtraction</p> <p>Calculations Understand how to check calculations using inverse operations</p> <p>Geometry Recognise properties of 2D shapes including angles and symmetry</p>	<p>Multiplication & Division Understand place value and multiplication facts to develop written methods for multiplication. Develop a written methods of division Mental Division, using place value, known and derived facts to divide mentally.</p> <p>Measures Estimate, measure and compare lengths Calculate the perimeter and area of rectangles</p> <p>Position and Direction Describe positions on a 2-D grid as coordinates in the first quadrant.</p> <p>Statistics Interpret and present discrete data using appropriate graphical methods, including in bar charts, pictograms, tables and other graphs.</p>	<p>Number & Place Value Use place value describe and extend number sequences involving counting on or back in different steps, including sequences with multiplication and division steps. Count backwards through zero to include negative numbers.</p> <p>Fraction & Decimals Understand that a fraction is one whole number divided by another (for example, $\frac{3}{4}$ can be interpreted as $3 \div 4$). Add and subtract fractions with the same denominator. Recognise, find and write fractions of a discrete set of objects including those with a range of numerators and denominators. Recognise and write decimal equivalents to $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$. Solve simple measure and money problems involving fractions and decimals to two decimal places.</p>	<p>Number and Place Value Identify the place value of each digit to two decimal places.</p> <p>Multiplication Know how to multiply together three numbers. Recognise and use factor pairs and commutativity in mental calculations. Develop use of written multiplication for problem solving</p> <p>Geometry Identify lines of symmetry in 2-D shapes presented in different orientations. Plot specified points and draw sides to complete a given polygon</p> <p>Addition & Subtraction Add and subtract numbers with up to 4 digits and decimals with one decimal place using the formal written methods of columnar addition and subtraction where appropriate.</p>	<p>Number and Place Value Describe and extend number sequences involving counting on or back in different steps, including sequences with multiplication and division steps.</p> <p>Decimals Develop their knowledge and understanding of decimals and relate multiplying and dividing by 10 and 100 to decimal notation and to converting units of measure.</p> <p>Measures Estimate, compare and calculate different measures. Apply their knowledge of the number system when measuring lengths (mm, cm, m), capacities / volumes (ml, l) and masses (g, kg). Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days and problems involving money and measures.</p>	<p>Number Solve number and practical problems that with increasingly large positive number including decimals</p> <p>Statistics Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs</p> <p>Addition and Subtraction Add and subtract numbers with up to 4 digits and decimals with one decimal place using the efficient written methods of columnar addition and subtraction where appropriate.</p> <p>Multiplication and division Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one</p>

	<p>Time Read time to the nearest minute is developed to include converting between different time systems (analogue and digital) and different units of time.</p> <p>Roman Numerals Recognise Roman Numerals</p> <p>Multiplication Recall multiplication facts up to and including 12x 12</p>	<p>Multiplication Recall multiplication facts up to and including 12x 12</p>	<p>Multiplication Recall multiplication facts up to and including 12x 12</p>	<p>Statistics Interpret discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.</p> <p>Multiplication Recall multiplication facts up to and including 12x 12</p>	<p>Geometry Complete a simple symmetric figure with respect to a specific line of symmetry. Plot specified points and draw sides to complete a given polygon</p> <p>Position & Direction Describe movements between positions on a 2-D grid as translations of a given unit to the left/right and up/down.</p> <p>Multiplication Recall multiplication facts up to and including 12x 12</p>	<p>digit, division (including remainders)</p> <p>Geometry Use a variety of sorting diagrams to compare and classify numbers and geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.</p> <p>Multiplication Recall multiplication facts up to and including 12x 12</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Year 5</p>	<p>Place value -Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit. -Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000. -Describe and extend number sequences -Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000. -Find 1, 10, 100, 1000 and other powers of 10 more or less than a given number than a given number. -Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. -Read, write, order and compare numbers with up to three decimal places. -Find 0.01, 0.1, 1, 10, 100, 1000 and other powers of 10 more or less than a given number than a given number. -Count forwards and backwards in decimal steps. -Round decimals with two decimal places to the nearest whole number and to one decimal place. -Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.</p> <p>Addition and subtraction</p>	<p>Multiplication & Division -Identify multiples and factors, including finding all factor pair -Know and use the vocabulary of prime numbers. -Recognise and use square numbers -Use partitioning to double or halve any number, including decimals to two decimal places. -Multiply and divide numbers mentally -Solve problems involving multiplication and division -Multiply numbers up to 4 digits by a one- or two-digit number using including long multiplication for two-digit numbers. -Divide numbers up to 4 digits by a one-digit number using short division and interpret remainders -Solve problems involving division.</p> <p>Fractions -Count on and back in mixed number steps -Read and write decimal numbers as fractions. -Identify, name and write equivalent fractions -Compare and order fractions -Solve problems involving fractions.</p> <p>Statistics</p>	<p>Place value -Interpret negative numbers and count forwards and backwards with positive and negative whole numbers -Calculate difference in temperature -Describe and extend number sequences including multiplication and division steps including decimals -Order temperatures -Read Roman numerals to 1000 and recognise years written in Roman numerals.</p> <p>Addition and subtraction -Add and subtract numbers mentally with decimals to two decimal places. -Add and subtract whole numbers with more than 4 digits and decimals with two decimal places, using formal written methods -Use estimation and inverse to check answers to calculations -Solve addition and subtraction multi-step problems</p> <p>Multiplication & Division -Identify multiples and factors -Multiply and divide numbers mentally -Multiply numbers up to 4 digits by a one- or two-digit number using long multiplication</p>	<p>Multiplication & Division -Identify multiples and factors -Divide numbers mentally -Divide numbers up to 4 digits by a one-digit number using short division and interpret remainders -Solve problems involving addition, subtraction, multiplication and division</p> <p>Geometry -Distinguish between regular and irregular polygons -Use the properties of rectangles to deduce related facts and missing lengths and angles. -Identify 3-D shapes, including cubes and other cuboids, from 2-D representations. -Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.</p> <p>Fractions, Decimals & Percentages -Recognise mixed number and improper fractions and convert from one form to the other. -Add and subtract fractions with the same denominator and denominators that are multiples of the same number Write mathematical statements > 1 as a mixed number,</p> <p>Measures</p>	<p>Place value -Read, write, order and compare numbers to at least 1 000 000 -Identify the value of each digit to three decimal places. -Read, write, order and compare numbers with up to three decimal places. -Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000. -Count forwards and backwards in decimal steps. -Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000. -Round decimals with two decimal places to the nearest whole number and to one decimal place. -Find 0.01, 0.1, 1, 10, 100, 1000 and other powers of 10 more or less than a given number than a given number.</p> <p>Fractions -Recognise mixed numbers and improper fractions and convert from one form to another. -Compare and order fractions -Identify, name and write equivalent fractions including tenths and hundredths. -Add and subtract fractions -Multiply proper fractions and mixed numbers by whole numbers</p> <p>Measures</p>	<p>Place Value -Read, write, order and compare numbers to at least 1 000 000 -Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000. -Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero. -Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000.</p> <p>Addition, Subtraction, Multiplication & Division -Add and subtract whole numbers with more than 4 digits and decimals with two decimal places -Multiply numbers up to 4 digits by a one- or two-digit number -Divide numbers up to 4 digits by a one-digit number -Solve problems involving addition, subtraction, multiplication and division</p> <p>Fractions/decimals/percentages -- Round decimals with two decimal places to the nearest whole number and to one decimal place. -Solve problems involving number up to three decimal places. -Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as</p>

<p>-Add and subtract whole numbers with more than 4 digits and decimals with two decimal places, including using formal written methods -Use estimation and inverse to check answers to calculations Solve addition and subtraction multi-step problems</p> <p>Geometry -Estimate and compare acute, obtuse and reflex angles. -Draw given angles and measure them in degrees</p> <p>Measure -Distinguish between regular polygons based on reasoning about equal sides and angles. -Measure and calculate the perimeter of rectilinear shapes in centimetres and metres.</p> <p>Statistics -Solve comparison, sum and difference problems using information presented in a line graph.</p>	<p>-Read, write and convert time between analogue and digital 12 and 24-hour clocks. -Complete, read and interpret information in tables, including timetables. -Solve problems involving converting between units of time.</p> <p>Measures -Calculate and compare the area of rectangles and estimate the area of irregular shapes.</p>	<p>-Solve problems involving multiplication, including scaling</p> <p>Measures -Use all four operations to solve problems involving measure (for example, length, mass, volume, money) using decimal notation. Use, read and write standard units of length and mass to a suitable degree of accuracy. -Estimate and calculate capacity. -Multiply and divide numbers and those involving decimals by 10, 100 and 1000. -Convert between different units of metric measure</p> <p>Geometry -Distinguish between regular and irregular polygons -Describe positions on the first quadrant of a coordinate grid. -Plot specified points and complete shapes. -Identify, describe and represent the position of a shape following a reflection or translation -Estimate and compare acute, obtuse and reflex angles. -Draw given angles, and measure them in degrees -Identify angles at a point and one whole turn -Identify angles at a point on a straight line and a turn</p>	<p>-Calculate and compare the area of rectangles and estimate the area of irregular shapes. -Estimate (and calculate) volume</p> <p>Statistics -Use, read and write standard units of length and mass -Estimate and calculate capacity. -Calculate and interpret the mode, median and range.</p>	<p>-Read, write and convert time between analogue and digital 12 and 24-hour clocks. -Complete, read and interpret information in tables, including timetables. -Solve problems involving converting between units of time. -Solve comparison, sum and difference problems using information presented in all types of graph including a line graph.</p> <p>Geometry -Distinguish between regular and irregular polygons based on reasoning about equal sides and angles. -Use the properties of rectangles find missing lengths and angles. -Identify 3-D shapes, including cubes and other cuboids, from 2-D representations. -Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. -Describe positions on the first quadrant of a coordinate grid. -Plot specified points and complete shapes. -Identify, describe and represent the position of a shape following a reflection or translation</p> <p>Addition and subtraction -Add and subtract whole numbers with more than 4 digits and decimals with two decimal places, including using formal written methods -Add and subtract numbers mentally -Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</p> <p>Multiplication & division -Divide numbers up to 4 digits by a one-digit number using of short division</p>	<p>a fraction with denominator 100, and as a decimal. -Solve problems which require knowing percentage and decimal equivalents</p> <p>Measures -Solve problems involving converting between units of time. -Use all four operations to solve problems involving measure -Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints. -Estimate volume (for example, using 1 cm³ blocks to build cuboids (including cubes)) and capacity (for example, using water).</p> <p>Geometry -Calculate and compare the area of rectangles and estimate the area of irregular shapes.</p>	
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	<p>Place Value</p> <ul style="list-style-type: none"> • Read, write, order and compare numbers up to 10 000 000 • Round any whole number • Use negative numbers in context, and calculate intervals across zero. • Count forwards or backwards in steps of integers, decimals or powers of 10 for any number. • Order and compare numbers including integers, decimals and negative numbers. • Find 0.001, 0.01, 0.1, 1, 10 and powers of 10 more or less than a given number. • Recall and use addition and subtraction facts for 1 (with decimal numbers to two decimal places). • Round decimals with three places to the nearest whole number or one or two decimal places. • Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places. <p>Addition & Subtraction</p> <ul style="list-style-type: none"> • Perform mental calculations, including with mixed operations and large numbers and decimals. • Choose an appropriate strategy to solve a calculation • Solve addition and subtraction multi-step problems • Express missing number problems algebraically. • Find pairs of numbers that satisfy an equation with two unknowns. 	<p>Fractions, percentages, ratio and proportion</p> <ul style="list-style-type: none"> • Identify common factors, common multiples and prime numbers. • Compare and order fractions, including fractions >1 • Add and subtract fractions with different denominators and mixed numbers • Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $\frac{3}{8}$). • Recall and use equivalences between simple fractions, decimals and percentages • Solve problems involving fractions. • Find simple percentages of amounts. • Solve problems involving the calculation of percentages • Solve problems involving similar shapes where the scale factor is known or can be found. • Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. <p>Geometry</p> <ul style="list-style-type: none"> • Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. <p>Statistics</p> <ul style="list-style-type: none"> • Interpret and construct pie charts and line graphs and use these to solve problems. • Solve comparison, sum and difference problems using 	<p>Place value</p> <ul style="list-style-type: none"> • Count forwards or backwards in steps of integers, decimals or powers of 10 for any number. • Describe and extend number sequences • Use simple formulae. • Generate and describe linear number sequences. <p>Geometry</p> <ul style="list-style-type: none"> • Describe positions on the full coordinate grid (all four quadrants). • Draw and translate simple shapes on the coordinate plane, and reflect them in the axes. <p>Measures</p> <ul style="list-style-type: none"> • Use negative numbers in context • Order and compare numbers including integers, decimals and negative numbers. • Calculate and interpret the mean as an average. <p>Fractions</p> <ul style="list-style-type: none"> • Identify common factors, common multiples and prime numbers. • Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. • Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions. • Multiply simple pairs of proper fractions, writing the answer in its simplest form • Divide proper fractions by whole numbers 	<p>Addition & Subtraction</p> <ul style="list-style-type: none"> • Add and subtract whole numbers and decimals using formal written methods • Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. • Use their knowledge of the order of operations to carry out calculations involving the four operations. <p>Measurement, Ratio and proportion</p> <ul style="list-style-type: none"> • Solve problems involving similar shapes where the scale factor is known or can be found. • Use, read, write and convert between standard units, converting measurements of length, mass, volume and time • Solve problems involving the calculation and conversion of units of measure (including money and time) • Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts. • Solve problems involving the calculation of percentages • Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. • Convert between miles and 	<p>Place Value</p> <ul style="list-style-type: none"> • Count forwards or backwards in steps of integers, decimals or powers of 10 for any number. • Order and compare numbers including integers, decimals and negative numbers. • Identify, represent and estimate numbers using the number line. • Find 0.001, 0.01, 0.1, 1, 10 and powers of 10 more or less than a given number. • Round decimals • Simplify fractions • Compare and order fractions, • Add and subtract fractions • Calculate decimal fraction equivalents <p>Multiplication & Written Calculation</p> <ul style="list-style-type: none"> • Perform mental calculations, including with mixed operations and large numbers and decimals. • Add and subtract whole numbers and decimals using formal written methods • Solve problems involving addition, subtraction, multiplication and division, using formal written methods. • Use estimation and inverse to check answers to calculations <p>Fractions, ratio and proportion</p> <ul style="list-style-type: none"> • Multiply simple pairs of proper fractions • Divide proper fractions by 	<p>Place Value & Decimals</p> <ul style="list-style-type: none"> • Count forwards or backwards in steps of integers, decimals or powers of 10 for any number. • Order and compare numbers including integers, decimals and negative numbers. • Calculate differences in temperature • Find 0.001, 0.01, 0.1, 1, 10 and powers of 10 more or less than a given number. • Round decimals with three places • Describe and extend number sequences <p>Measures</p> <ul style="list-style-type: none"> • Solve problems involving the calculation and conversion of units of measure • Use, read, write and convert between standard units • Calculate, estimate and compare volume of cubes and cuboids using standard units <p>Addition, Subtraction, Multiplication & Division</p> <ul style="list-style-type: none"> • Perform mental calculations, including with mixed operations and large numbers and decimals. • Add and subtract whole numbers and decimals using formal written methods • Solve problems involving addition, subtraction, multiplication and division using formal written

<ul style="list-style-type: none"> Use estimation and inverse to check answers to calculations Add and subtract whole numbers and decimals using column addition and subtraction Solve problems which require answers to be rounded to specified degrees of accuracy. <p>Multiplication & Division</p> <ul style="list-style-type: none"> Multiply multi-digit numbers up to 4 digits by a two-digit whole number using long multiplication. Multiply one-digit numbers with up to two decimal places by whole numbers. Divide numbers up to 4 digits by a two-digit whole number using long division Divide numbers up to 4 digits by a two-digit number using short division, interpreting remainders Use written division methods in cases where the answer has up to two decimal places. Perform mental calculations, including with mixed operations and large numbers and decimals. Solve problems involving addition, subtraction, multiplication and division. Express missing number problems algebraically. <p>Geometry</p> <ul style="list-style-type: none"> Draw 2-D shapes using given dimensions and angles. Recognise, describe and build simple 3-D shapes, including making nets. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons. Continue to complete and interpret information in a variety of sorting diagrams (including those used to sort 	<p>information presented in all types of graph.</p> <p>Measures</p> <ul style="list-style-type: none"> Solve problems involving the calculation and conversion of units of measure (including money and time) Use, read, write and convert between standard units, converting measurements of length and mass Convert between miles and kilometres. Recognise that shapes with the same areas can have different perimeters and vice versa. Calculate the area of parallelograms and triangles. Recognise when it is possible to use the formulae for area and volume of shapes. Calculate, estimate and compare volume of cubes and cuboids using standard units 	<ul style="list-style-type: none"> Calculate decimal fraction equivalents for a simple fraction <p>Multiplication & Division</p> <ul style="list-style-type: none"> Divide numbers up to 4 digits by a two-digit whole number using long division Divide numbers up to 4 digits by a two-digit number using short division Use written division methods where the answer has up to two decimal places. Multiply multi-digit numbers up to 4 digits by a two-digit whole number using long multiplication. Multiply one-digit numbers with up to two decimal places by whole numbers. 	<p>kilometres.</p> <p>Geometry</p> <ul style="list-style-type: none"> Draw 2-D shapes using given dimensions and angles. Recognise, describe and build simple 3-D shapes, including making nets. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons. Continue to complete and interpret information in a variety of sorting diagrams Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius. Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. Recognise that shapes with the same areas can have different perimeters and vice versa. Recognise when it is possible to use the formulae for area and volume of shapes. Calculate the area of parallelograms and triangles. Calculate, estimate and compare volume of cubes and cuboids <p>Statistics</p> <ul style="list-style-type: none"> Interpret and construct pie charts and line graphs and use these to solve problems. Solve comparison, sum and difference problems using information presented in all types of graph. 	<p>whole numbers</p> <ul style="list-style-type: none"> Solve problems involving the calculation of percentages Solve problems involving similar shapes where the scale factor is known or can be found. <p>Geometry</p> <ul style="list-style-type: none"> Draw 2-D shapes using given dimensions and angles. Describe positions on the full coordinate grid (all four quadrants). Draw and translate simple shapes on the coordinate plane, and reflect them in the axes. <p>Algebra & Sequences</p> <ul style="list-style-type: none"> Describe and extend number sequences including those with multiplication and division steps, inconsistent steps, alternating steps and those where the step size is a decimal. Use simple formulae. Generate and describe linear number sequences. <p>Measures</p> <ul style="list-style-type: none"> Solve problems involving the calculation and conversion of units of measure (including money and time), using decimal notation up to three decimal places Use, read, write and convert between standard units Calculate and interpret the mean as an average. <p>Statistics</p> <ul style="list-style-type: none"> Solve comparison, sum and difference problems using information presented in all types of graph. 	<p>methods</p> <ul style="list-style-type: none"> Use estimation and inverse to check answers to calculations <p>Fractions</p> <ul style="list-style-type: none"> Use common factors to simplify fractions Compare and order fractions, including fractions >1 Add and subtract fractions with different denominators Multiply simple pairs of proper fractions Divide proper fractions by whole numbers <p>Geometry</p> <ul style="list-style-type: none"> Draw 2-D shapes using given dimensions and angles Recognise, describe and build simple 3-D shapes, including making nets. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons. Continue to complete and interpret information in a variety of sorting diagrams Illustrate and name parts of circles, including radius, diameter and circumference Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. 	
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