



Maths progression

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1					
<p>Number: Place value Count in 1s.</p> <p>Count, read and write numbers to 10.</p> <p>Count forwards and backwards within 10.</p> <p>Adding and subtracting 1 or 2 (within 10).</p> <p>Number bonds to 10.</p> <p>Measurement Days of the week.</p>	<p>Number: Place value Count, read and write numbers from 1-20 in numerals and words.</p> <p>1 more.</p> <p>Addition and subtraction within 20 using number bonds.</p> <p>Geometry- Recognise, name and sort 2D and 3D shapes.</p> <p>Measurement Months of the year.</p>	<p>Number: Place value Count and understand numbers within 20.</p> <p>1 more and 1 less.</p> <p>Addition and subtraction of 1-digit and 2-digit numbers to 20.</p> <p>Measurement- Sequence events in chronological order (for example, before, after, next, first)</p>	<p>Number: Place value Count in tens within 50.</p> <p>Number bonds to 20, doubles and find the missing numbers.</p> <p>Measurement- Compare and begin to measure: - lengths and heights, - mass/weight - capacity and volume - time</p>	<p>Number: Place value Repeated addition (2, 5, 10)</p> <p>Multiplication and division Count in multiples of 2's, 5's and 10's.</p> <p>Making equal groups and sharing.</p> <p>Fractions Recognise, name and find half and a quarter of a shape and a quantity.</p> <p>Measurement Describe position, direction and movement including turns.</p>	<p>Number: Place value Count to and across 100 forwards and backwards.</p> <p>Measurement Time Tell the time to the hour and half past the hour.</p> <p>Money Recognise and know the value of coins and notes.</p>
Year 2					
<p>Number: Place value Read and write numbers to 100 in numerals and words.</p>	<p>Addition and Subtraction Add Three 1-digit numbers.</p> <p>Add and subtract across 10.</p>	<p>Number: Place value Odd and even numbers.</p> <p>Multiplication and division</p>	<p>Number: Place value Count in 3's forwards and backwards.</p>	<p>Number: Fractions Recognise unit fractions (a half, a quarter and a third) and non-unit fractions (three-quarters).</p>	<p>Number: Place value Addition and subtraction facts to 20 and 100.</p>

<p>Compare and order numbers from 0 to 100.</p> <p>Count in 2's, 5's, 10's forwards and backwards.</p> <p>Addition and subtraction Number bonds to 10 and 100.</p> <p>Add and subtract -2-digit numbers and ones - 2-digit numbers and tens</p>	<p>10 more and 10 less.</p> <p>Add and subtract two 2-digit numbers.</p> <p>Solve missing number problems.</p> <p>Geometry:</p> <p>Identify and describe the properties of 2-D shapes (number of sides and line of symmetry) and 3-D shapes (number of edges, vertices and faces).</p>	<p>Recognise and make equal groups.</p> <p>Introduce the symbol for multiplication (x) and division (÷).</p> <p>Make equal groups by sharing and grouping.</p> <p>Doubling and halving.</p> <p>Multiply and divide by 2, 5 and 10.</p> <p>Measurement: Money Count money in pounds (£) and pence (p).</p> <p>Recognise the value of coins and notes.</p> <p>Make the same amount.</p> <p>Compare amounts of money.</p> <p>Calculate with money in the same unit, including finding change.</p> <p>Times-tables X2 X10 X5</p>	<p>Measurement: Length and height</p> <p>Measure in cm and m.</p> <p>Compare and order lengths and heights.</p> <p>Mass, capacity and temperature Measure in grams (g) and kilograms (kg).</p> <p>Compare mass.</p> <p>Measure in millilitres (ml) and litres (l).</p> <p>Compare volume and capacity.</p> <p>Know temperature (°C) and read scales.</p> <p>Statistics: Make tally charts.</p>	<p>Recognise equivalence of $\frac{2}{4}$ and $\frac{1}{2}$</p> <p>Count in fractions up to a whole.</p> <p>Measurement: Time</p> <p>Tell and write the time (o'clock and $\frac{1}{2}$ past, $\frac{1}{4}$ to and past)</p> <p>To know time to five minutes.</p> <p>To know the number of: - minutes in an hour. - hours in a day.</p>	<p>Statistics: Interpret and draw pictograms, block diagrams and tables and answer simple questions.</p> <p>Geometry:</p> <p>Compare and sort 2-D and 3-D shapes.</p> <p>Identify 2-D shapes on the surface of 3-D shapes.</p> <p>Position language, describe movement and turns.</p>
--	---	--	---	--	---

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 3					
<p>Number: Place value Represent numbers to 1000.</p> <p>Recognise place value of a 3-digit number.</p> <p>Compare and order numbers to 1000.</p> <p>Addition/subtraction Apply number bonds within 10.</p> <p>Add and subtract 1's, 10's, 100's and across 10 and 100.</p> <p>Add and subtract two 2-digit and 3-digit numbers using formal written method.</p>	<p>Number: Multiplication & division Count in multiples of 4, 8, 50 and 100.</p> <p>Multiples of 2, 5 and 10.</p> <p>To multiply and divide by 3, 4 and 8.</p> <p>Times-tables X3 X4 X8</p>	<p>Number: Multiplication and division Multiplying a 2-digit number by a 1-digit number.</p> <p>Divide-a 2-digit number by a 1 digit number with no remainders.</p> <p>Fractions Unit fractions- numerators and denominators.</p> <p>Count up and down in tenths.</p> <p>Compare and order unit fractions and fractions with the same denominators.</p> <p>Recognise equivalent fractions with small denominators.</p>	<p>Measurement: Length & perimeter measure in m, cm and mm.</p> <p>Equivalent lengths (m and cm, cm and mm)</p> <p>Compare, add and subtract length.</p> <p>Measure and calculate perimeter.</p> <p>Mass and capacity Measure and compare using kg and g (mass) L and ml (capacity).</p> <p>Add and subtract mass and capacity.</p>	<p>Number: Fractions Add and subtract fractions with the same denominator.</p> <p>Recognise, find and write fractions of a set objects.</p> <p>Measurement Money Add and subtract in £ and p.</p> <p>Find change.</p> <p>Time Tell and write the time on an analogue clock.</p> <p>Tell and write the time on 12 hour and 24 hour clocks.</p> <p>Tell the time to the nearest 5 minutes and the nearest minute.</p> <p>Compare duration of time.</p> <p>Read Roman Numerals to 12.</p> <p>Number of seconds in a minute/days in each month</p>	<p>Geometry: Recognise turns and angles.</p> <p>Identify horizontal and vertical and perpendicular and parallel lines.</p> <p>Compare and measure and draw angles.</p> <p>Draw and describe 2-D and 3-D shapes in different orientations.</p> <p>Statistics: Interpret and present data using pictograms, bar charts and tables</p>

Year 4

<p>Number: Place value Represent numbers to 1000 & 10,000.</p> <p>Find 1000 more or less than a given number.</p> <p>Compare, order and estimate numbers beyond 1000.</p> <p>Round to the nearest 10, 100, 1000.</p> <p>Multiplication and division Multiply and divide by 6, 9</p> <p>Addition and subtraction +/- 1, 10, 100 and 1000, +/- two 4 digit numbers with no exchange and with exchange.</p> <p>Add and subtract numbers with up to 4 digits using formal written methods with exchange.</p> <p>Solve two-step problems deciding which operation to use.</p> <p>Strategies to check answers including estimation and inversion.</p> <p>Times-tables X6 X9</p>	<p>Number: Place value Roman Numerals to 100.</p> <p>Multiplication and division</p> <p>Count in multiples of 6, 7, 9, 25 and 1000.</p> <p>Multiply and divide by 7</p> <p>Factor pairs.</p> <p>Multiply by 1 and 0 and divide a number by itself and 1.</p> <p>Multiplying three numbers together.</p> <p>Measurement: Area</p> <p>Find the area of rectilinear shapes by counting the squares.</p> <p>Times-tables X7 X11 X12</p>	<p>Number: Multiplication and division Factor pairs.</p> <p>Multiply and divide by 10 and 100.</p> <p>Multiply 2 and 3-digit numbers by a 1-digit number.</p> <p>Measurement: Perimeter</p> <p>Measure and calculate the perimeter of a rectilinear figure (including squares) in cm and m</p> <p>Convert between different units of measure (km and m)</p> <p>Time Convert between analogue and digital time.</p>	<p>Number: Multiplication and division Divide 2 and 3-digit numbers by a 1 digit number using short division.</p> <p>Fractions Count up and down in hundredths.</p> <p>Compare and order mixed numbers.</p> <p>Compare and order improper fractions.</p> <p>Convert mixed numbers to improper fractions.</p> <p>Convert improper fractions to mixed numbers.</p> <p>Add and subtract fractions with the same denominator.</p> <p>Find and show equivalent fractions.</p>	<p>Number: Decimals Recognise and write tenths and hundredths.</p> <p>Divide 1 and 2-digit numbers by 10 and 100.</p> <p>Recognise the decimal equivalents for $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$.</p> <p>Compare and order decimals.</p> <p>Round decimals to nearest whole number.</p> <p>Measurement: Money Write money using decimals.</p> <p>Convert between £ and p.</p> <p>Compare, estimate and calculate with money.</p> <p>Time</p> <p>Convert between 12 hour and from 24 hour clocks.</p>	<p>Statistics Interpret and draw charts and line graphs.</p> <p>Solve problems using charts and graphs.</p> <p>Geometry- Identify acute and obtuse angles.</p> <p>Compare and order angles.</p> <p>Compare and classify regular and irregular geometric shapes including, triangles, quadrilaterals and polygons.</p> <p>Identify lines of symmetry.</p> <p>Use and plot co-ordinates.</p> <p>Translate a shape on a grid.</p>
---	---	---	--	---	--

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 5					
<p>Number: Place value Read, write and compare numbers to 1,000,000.</p> <p>Rounding numbers to 1,000,000 to the nearest 10, 100, 1,000, 10,000, and 100,000.</p> <p>Roman Numerals to 1000.</p> <p>Decimals Recognise, tenths, hundredths and thousandths.</p> <p>Order and compare numbers with up to 3 decimal places.</p>	<p>Number: Addition and subtraction Add numbers with more than 4 digits.</p> <p>Add and subtract numbers mentally.</p> <p>Round to check answers.</p> <p>Find missing numbers.</p> <p>Solve multi-step word problems.</p> <p>Multiplication and division Identify multiples and factors.</p> <p>Find factor pairs and common factors.</p> <p>Know prime, composite, square and cube numbers.</p> <p>Prime numbers to 100.</p> <p>Multiply and divide by 10, 100, 1,000.</p> <p>Fractions Find and recognise equivalent fractions.</p> <p>Recognise improper fractions and mixed</p>	<p>Number: Multiplication and division Multiply using the formal written method: - 4 digit number by a 1 digit number; - 2 digit by 2 digit, - 3 digit by 2 digit - 4 digit by 2 digit.</p> <p>Divide a 4 digit number by 1 digit with and without remainders using the formal written method (short division).</p> <p>Solve problems using multiplication and division.</p> <p>Statistics: Read, interpret draw and solve problems using line graphs.</p> <p>Read and interpret tables and timetables.</p> <p>Number: Fractions Multiply proper fractions and mixed numbers by whole numbers.</p> <p>Calculate fractions of amounts.</p>	<p>Number: Decimals Read and write equivalent fractions and decimals ($\frac{1}{10} = 0.1$ and $\frac{1}{100} = 0.01$, and $\frac{1}{1000} = 0.001$)</p> <p>Round decimals to the nearest whole number and 1 decimal place.</p> <p>Recognise percentages (%)</p> <p>Write percentages as a fraction and a decimal.</p> <p>Measurement: Perimeter Calculate the perimeter of rectilinear shapes.</p> <p>Area Calculate and compare the area of rectangles and compound shapes.</p> <p>Estimate the area of irregular shapes.</p>	<p>Geometry: Shape Draw angles and measure in degrees.</p> <p>Estimate and compare angles.</p> <p>Calculate angles around a point and on a straight line.</p> <p>Use properties of rectangles to calculate missing facts.</p> <p>Distinguish between regular and irregular polygons.</p> <p>Identify 3-D shapes.</p> <p>Position and direction Read and plot co-ordinates.</p> <p>Identify and describe translation and reflection of a shape.</p> <p>Number: Multiply by 10, 100, 1,000</p> <p>Decimals Add and subtract - decimals across 1.</p>	<p>Measurement: Convert between different units of measure (kg and g, km and m).</p> <p>Understand approximate conversions between metric to imperial units of measure.</p> <p>Volume Compare and estimate volume and capacity.</p> <p>Number: Count forwards and backwards in negative numbers.</p> <p>Compare and order and find differences.</p>

	<p>numbers and convert between them.</p> <p>Compare and order fractions.</p> <p>Add and subtract fractions.</p>			<p>- decimals with same number of decimal places.</p> <p>- with different number of decimal places.</p>	
--	---	--	--	---	--

Year 6

<p>Number: Place value- read, write, order and compare numbers up to 10 000 000.</p> <p>Use negative numbers in context, and calculate intervals across 0.</p> <p>Round any whole number.</p> <p>Decimals Multiply 1-digit numbers with up to two decimal places by whole numbers.</p> <p>Use equivalences between simple fractions, decimals and percentages.</p> <p>Measurement: Use, read, write and calculate with units of measure and convert between units of measure using decimal notation.</p>	<p>Addition and subtraction Calculations- Solve addition and subtraction multi-step problems, deciding which operations and methods to use, use estimation to check answers.</p> <p>Multiplication and division Prime numbers. Common multiples and common factors.</p> <p>Multiply up to 4 digits by a 2 digit whole numbers using long multiplication.</p> <p>Multiply 1-digit numbers with up to two decimal places by whole numbers. Common factors and multiples. Square and cube numbers.</p> <p>Division: Short division.</p> <p>Use long division to divide numbers up to 4</p>	<p>Number: Fractions Use factors to simplify fractions; use common multiples to express fractions in same denominator.</p> <p>Compare and order fractions, including fractions > 1</p> <p>Add and subtract fractions with different denominators and mixed numbers.</p> <p>Multiply simple pairs of proper fractions.</p> <p>Geometry: Name parts of circles, (radius, diameter and circumference).</p> <p>Recognise angles and find missing angles.</p> <p>Compare and classify geometric shapes and find unknown angles in any triangles,</p>	<p>Number: Fractions Divide proper fractions by whole numbers.</p> <p>Use equivalences between simple fractions, decimals and percentages.</p> <p>Calculating fractions and decimals of amounts.</p> <p>Number: Ratio-language and symbol.</p> <p>Ratio and fractions.</p> <p>Using scale factors.</p> <p>Ratio and proportion.</p> <p>Solve ratio problems.</p> <p>Geometry: Draw 2-D shapes.</p> <p>Recognise, describe and build simple 3-D shapes</p>	<p>Statistics: Calculate and interpret the mean as an average.</p> <p>Algebra 1 and 2 step function machines, form an expression, make substitutions and use formulae.</p> <p>Form equations and solve 1 and 2 step equations.</p> <p>Find pairs of values.</p>	<p>Statistics: Interpret and construct pie charts and line graphs and use these to solve problems.</p> <p>Algebra Develop 1 and 2 step function machines, form an expression, make substitutions and use formulae.</p> <p>Form equations and solve 1 and 2 step equations.</p> <p>Find pairs of values.</p> <p>Consolidation</p>
---	--	---	--	---	---

<p>Conversions of units of measurement of length, mass and volume.</p> <p>Convert between miles and kilometres.</p>	<p>digits by a 2-digit and interpret remainders as whole numbers.</p> <p>Order of operations.</p> <p>Measurement: Recognise that shapes with the same areas can have different perimeters.</p> <p>Recognise where it is possible to use a formulae for area and volume of shapes.</p> <p>Calculate, estimate and compare volume of cubes and cuboids.</p> <p>Calculate the area of parallelograms and triangles.</p>	<p>quadrilaterals, and regular polygons.</p>	<p>Describe positions using co-ordinates on all four quadrants.</p> <p>Draw and translate simple shapes and reflect them in the axes</p>		
---	---	--	--	--	--