



## RCFS Maths Progression of Skills

Strand	Reception	Year 1	Year 2	Year 3	Year 4
Number and Place Value		<p>*I can count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number.</p> <p>*I can count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens.</p> <p>*I can identify one more and one less of numbers up to 100.</p> <p>*I can identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most and least.</p> <p>*I can read and write numbers 1-20 in numerals and words.</p>	<p>I can count in steps of 2, 3, 5 and 0, and in tens from any number, forward and backward.</p> <p>*I can recognise the place value of each digit in a two-digit number (tens, ones).</p> <p>*I can identify, represent and estimate numbers using different representations, including the number line.</p> <p>*I can compare and order numbers from 0 up to 100; use <math>&lt;</math>, <math>&gt;</math> and <math>=</math> signs.</p> <p>*I can read and write numbers to at least 100 in numerals and words.</p> <p>*I can use place value and number facts to solve problems.</p>	<p>*I can count from 0 in multiples of 4,8,50 and 100; find 10 or 100 more or less than a given number.</p> <p>*I can recognise the place value of each digit in a three-digit number (hundreds, tens and ones).</p> <p>*I can compare and order numbers up to 1000.</p> <p>*I can identify, represent and estimate numbers using different representations.</p> <p>*I can read and write numbers up to 1000 in numerals and in words.</p> <p>*I can solve number problems and practical problems involving these ideas.</p>	<p>*I can count in multiples of 6, 7,9,25 and 1000.</p> <p>*I can find 1000 more or less than a given number.</p> <p>*I can count backwards through zero to include negative numbers.</p> <p>*I can recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones).</p> <p>*I can order and compare numbers beyond 1000.</p> <p>*I can identify, represent and estimate numbers using different representations.</p> <p>*I can round any number to the nearest 10,100 and 1000.</p> <p>*I can solve number and practical problems that involve all of the above and with increasingly large positive numbers.</p> <p>*I can read Roman numerals to 100 (I to C)</p>



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					and know that over time, the numeral system changed to include the concept of zero and place value.
Addition and Subtraction		<p>*I can read, write and interpret mathematical symbols involving addition, subtraction and equal signs.</p> <p>*I can represent and use number bonds and related subtraction facts within 20.</p> <p>*I can add and subtract one-digit and two-digit numbers to 20, including zero.</p> <p>*I can solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems.</p>	<p>*I can use concrete objects and pictorial representations, including those involving numbers, quantities and measures.</p> <p>*I can apply my increasing knowledge of mental and written methods.</p> <p>*I can recall using addition and subtraction facts to 20 fluently, and deriving and using related facts to 100.</p> <p>*I can show that addition of two number can be done in any order (commutative) and subtraction of one number from another cannot.</p>	<p>*I can add and subtract numbers mentally including: A three-digit number and ones. A three digit number and tens. A three digit number and hundreds.</p> <p>*I can add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction.</p> <p>*I can estimate the answer to a calculation and use inverse operations to check answers.</p> <p>*I can solve problems, including missing number facts, place value, and more complex addition and subtraction.</p>	<p>*I can add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.</p> <p>*I can estimate and use inverse operations to check answers to a calculation.</p> <p>*I can solve addition and subtraction two-step problems in context, deciding which operations and methods to use and why.</p>
Multiplication and Division		<p>*I can solve one-step problems including multiplication and division, by calculating the answer using concrete objects, pictorial</p>	<p>*I can recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.</p>	<p>*I can recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</p> <p>*I can write and calculate</p>	<p>*I can recall multiplication and division facts for multiplication tables up to 12 x 12.</p> <p>*I can use place value, known and derived</p>



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		<p>representations and arrays with support of the teacher.</p>	<p>*I can calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (<math>\times</math>), division (<math>\div</math>) and equals (<math>=</math>) signs.</p> <p>*I can show that multiplication for two numbers can be done in any order (commutative) and division of one number from another cannot.</p> <p>*I can solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.</p>	<p>mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit <math>\times</math> 1-digit numbers, using mental methods and progressing to formal written methods.</p> <p>*I can solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems.</p>	<p>facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers.</p> <p>*I can recognise and use factor pairs and commutativity in mental calculations.</p> <p>*I can multiply two-digit and three-digit numbers by one-digit number using formal written layout.</p> <p>*I can solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling problems and harder correspondence problems.</p>
Fractions		<p>*I can recognise, find and name a half as one of two equal parts of an object, shape or quantity.</p> <p>*I can recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.</p>	<p>*I can recognise, find, name and write fractions <math>\frac{1}{3}</math> <math>\frac{1}{4}</math> <math>\frac{2}{4}</math> <math>\frac{3}{4}</math> of a length, shape, set of objects or quantity.</p> <p>*I can write simple fractions for example <math>\frac{1}{2}</math> of 6 = 3 and recognise the equivalence of <math>\frac{2}{4}</math> and <math>\frac{1}{2}</math>.</p>	<p>*I can count up and down in tenths, recognise that tenths arise from dividing an object in to 10 equal parts and in dividing one-digit numbers or quantities by 10.</p> <p>*I can recognise, find and write fractions of a discrete set of objects:</p>	<p>I can recognise and show, using diagrams, families of common equivalent fractions. I can round up and down in hundredths/recognise that hundredths arise when dividing an object by one hundred and dividing tenths by</p>



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				<p>unit fractions and non-unit fractions with small denominators.</p> <p>*I can recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.</p> <p>*I can recognise and show, using diagrams, equivalent fractions with small denominators.</p> <p>*I can add and subtract fractions with the same denominator within one whole (<math>5/7 + 1/7 = 6/7</math>).</p> <p>*I can compare and order unit fractions, and fractions with the same denominators.</p> <p>*I can solve problems that involve all of the above.</p>	<p>10.</p> <p>I can solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.</p> <p>I can add and subtract fractions with the same denominator.</p> <p>I can recognise and write decimal equivalents of any number of tenth or hundredths.</p> <p>I can recognise and write decimal equivalents to <math>1/4, 3/4, 1/2</math>.</p> <p>*I can find the effect of dividing a one or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.</p> <p>*I can round decimals with one decimal place to the nearest whole number.</p> <p>*I can compare numbers with the same number of decimal</p>
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Measurement	<p>*I can begin to use language related to weight, length and capacity.</p> <p>*I can begin to record using marks that I can explain.</p> <p>*I can begin to use language relating to time.</p> <p>*I can begin to use everyday language relating to money.</p>	<p><b>*I can compare, describe and solve practical problems for:</b></p> <p>*Length and Heights (long, short) (shorter/longer)</p> <p>*Weight and mass (heavy/light) (heavier than, lighter than)</p> <p>*Given a number, identify one more or one less</p> <p>*Capacity and volume (full, empty) (more than, less than)</p> <p>*Time (quicker, earlier, slower, later)</p> <p><b>*I can measure and begin to record the following:</b></p> <p>*Lengths and heights</p> <p>*Mass/weight</p> <p>*Capacity and volume.</p> <p>*Time (hours, minutes, seconds).</p> <p>*Recognise and know the value of different denominations of coins and notes.</p> <p>*Sequence events in chronological order</p>	<p>*I can choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (ml/litres) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels.</p> <p>*I can compare and order lengths, mass, volume/capacity and record the results using &gt;, &lt; and =.</p> <p>*I can recognise and use symbols for pounds (£) and pence (p) and combine amounts to make a particular value.</p> <p>*I can find different combinations of coins that equal the same amounts of money.</p> <p>*I can solve simple problems in a practical</p>	<p>*I can measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).</p> <p>*I can measure the perimeter of simple 2-D shapes.</p> <p>*I can add and subtract amounts of money to give change, using both £ and p in practical contexts.</p> <p>*I can tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.</p> <p>*I can 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>	<p>places up to two decimal places.</p> <p>*I can solve simple measure and money problems involving fractions and decimals to two decimal places.</p> <p>*I can convert between different units of measure (kilometre to metre; hour to minute).</p> <p>*I can measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.</p> <p>*I can find the area of rectilinear shapes by counting squares.</p> <p>*I can estimate, compare and calculate different measures, including money in pounds and pence.</p> <p>*I can read, write and convert time between analogue and digital 12- and 24-hour clocks.</p> <p>*I can solve problems, involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.</p>
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		<p>using language (before, after, next, first, today, yesterday).</p> <p>*Recognise and use language relating to dates, including days of the week, weeks, months and year.</p> <p>*Tell the time to the hour and to half past the hour and draw the hands on the clock to show these times.</p>	<p>context involving addition and subtraction of money of the same unit, including giving change.</p> <p>*I can compare and sequence intervals of time.</p> <p>*I can tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.</p>	<p>p.m, morning, afternoon, noon and midnight.</p> <p>*I can know the number of seconds in a minute and the number of days in each month, year and leap year.</p> <p>*I can compare durations of events (calculate time taken to a certain event).</p>	
<b>Geometry: Properties of Shapes</b>	<p>*I can begin to identify common 2D shapes.</p> <p>*I can begin to describe the properties of 2D shapes.</p> <p>*I can begin to identify common 3D shapes.</p> <p>*I can begin to describe the properties of 3D shapes.</p>	<p>*I can recognise and name rectangles (including squares), triangles and circles.</p> <p>*I can recognise and name cuboids (including cubes), pyramids and spheres.</p>	<p>*I can identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line.</p> <p>*I can identify and describe the properties of 3D shapes, including the number of edges, vertices and faces.</p> <p>*I can identify 2D shapes on the surface of 3D shapes (a circle on a cylinder and a triangle on a pyramid).</p> <p>*I can compare and sort common 2D and 3D shapes and everyday objects.</p>	<p>*I can draw 2-D shapes and make 3-D shapes using modelling materials 'recognise 3-D shapes in different orientations and describe them.</p> <p>*I can recognise angles as a property of shape or a description of a turn.</p> <p>*I can identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four make a complete turn; identify whether angles are greater than or less than a right angle.</p>	<p>*I can compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.</p> <p>*I can identify acute and obtuse angles and compare and order angles up to two right angles by size.</p> <p>*I can identify lines of symmetry in 2D shapes presented in different orientations.</p> <p>*I can complete a simple symmetric figure with respect to a specific line of symmetry.</p>



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				*I can identify horizontal and vertical lines and pairs of perpendicular and parallel lines.	
<b>Geometry: Position and Direction</b>	I can recreate a simple pattern. *I can use positional language.	*I can describe position direction and movement, including whole, half, quarter and three-quarter turns.	*I can order and arrange combinations of mathematical objects in patterns and sequences. *I can use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).		*I can describe positions on a 2D grid as co-ordinates in the first quadrant. *I can describe movements between positions as translations of a given unit to the left/right and up/down. *I can plot specified points and draw sides to complete a given polygon.
<b>Statistics</b>			*I can interpret and construct simple pictograms, tally charts, block diagrams and simple tables. *I can ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. *I can ask and answer questions about	*I can interpret and present data using bar charts, pictograms and tables *I can solve one-step and two-step questions (How many more?) (How many fewer?) using information presented in scaled bar charts and pictograms and tables .	*I can interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. *I can solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.



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			totalling and comparing categorical data.		
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