



Maths Progression – Reception (Links to DM)

Menu	
Counting	<ul style="list-style-type: none"> Count objects, actions and sounds. Count beyond 10. Verbally count beyond 20, recognising the pattern of the counting system. (ELG)
Place Value	<ul style="list-style-type: none"> Compare numbers. Have a deep understanding of number to 10, including the composition of each number. (ELG) Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity. (ELG)
Representing number	<ul style="list-style-type: none"> Subitise Subitise up to 5 (ELG) Link the number symbol (numeral) with its cardinal number value.
Number facts (+/-)	<ul style="list-style-type: none"> Understand the 'one more than/one less than' relationship between consecutive numbers. 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. (ELG)
Mental +/-	<ul style="list-style-type: none"> Automatically recall number bonds for numbers 0–5 and some to 10. 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. (ELG)
Written +/-	
Problems +/-	<ul style="list-style-type: none"> Explore the composition of numbers to 10. Have a deep understanding of number to 10, including the composition of each number. (ELG)
Number facts (x/÷)	<ul style="list-style-type: none"> Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally. (ELG)
Mental (x/÷)	
Written (x/÷)	
Problems (x/÷)	
Recognising fractions	
Comparing fractions	
Finding fractions of quantities	
Fraction calculations	
Decimals as fractional amounts	
Ordering decimals	

Reception - Continued (Links to DM)



Calculating with decimals	
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Percentages	
Fraction problems	
Ratio & Proportion	
Algebra	
Measures	<ul style="list-style-type: none">• Compare length, weight and capacity.
Mensuration	
Money	
Time	
Shape vocabulary	
Properties of 2-d shape	
Properties of 3-d shape	
Angles	
Pattern	<ul style="list-style-type: none">• Continue, copy and create repeating patterns.
Position & Direction	<ul style="list-style-type: none">• Select, rotate and manipulate shapes to develop spatial reasoning skills.• Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can.
Interpreting data	
Extract info from data	

Maths Progression – Year 1 (NC links)



Menu	
Counting	<ul style="list-style-type: none"> Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens
Place Value	
Representing number	<ul style="list-style-type: none"> Identify and represent numbers using objects and pictorial representations including the number line, & use language of equal to, more than, less than (fewer), most, least Read and write numbers from 1 to 20 in numerals and words Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs
Number facts (+/-)	<ul style="list-style-type: none"> Given a number, identify one more and one less Represent and use number bonds and related subtraction facts within 20
Mental +/-	<ul style="list-style-type: none"> Add and subtract one-digit and two-digit numbers to 20, including zero
Written +/-	
Problems +/-	<ul style="list-style-type: none"> Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$.
Number facts (x/÷)	
Mental (x/÷)	
Written (x/÷)	
Problems (x/÷)	<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 the support of the teacher.
Recognising fractions	<ul style="list-style-type: none"> Recognise, find and name a half as one of two equal parts of an object, shape or quantity Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.
Comparing fractions	
Finding fractions of quantities	
Fraction calculations	
Decimals as fractional amounts	
Ordering decimals	

Year 1 – Continued (NC links)

Calculating with decimals	
Percentages	

Fraction problems	
Ratio & Proportion	
Algebra	
Measures	<ul style="list-style-type: none"> • Compare, describe and solve practical problems for: length/height, weight/mass, capacity/volume & time • Measure and begin to record length/height, weight/mass, capacity/volume & time
Mensuration	
Money	<ul style="list-style-type: none"> • Recognise and know the value of different denominations of coins and notes
Time	<ul style="list-style-type: none"> • Sequence events in chronological order using language • Recognise and use language relating to dates, including days of the week, weeks, months and years • Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times
Shape vocabulary	<ul style="list-style-type: none"> • Recognise and name common 2-D shapes (e.g., Square, circle, triangle) • Recognise and name common 3-D shapes (e.g., Cubes, cuboids, pyramids & spheres)
Properties of 2-d shape	
Properties of 3-d shape	
Angles	
Position & Direction	<ul style="list-style-type: none"> • Describe position, direction and movement, including whole, half, quarter and three-quarter turns.
Interpreting data	
Extract info from data	

Maths Progression – Year 2 (NC links)



Menu	
Counting	<ul style="list-style-type: none"> • Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward
Place Value	<ul style="list-style-type: none"> • Recognise the place value of each digit in a two-digit number • Compare and order numbers from 0 up to 100; use <, > and = signs



Representing number	<ul style="list-style-type: none"> Identify, represent and estimate numbers using different representations, including the number line Read and write numbers to at least 100 in numerals and in words
Number facts (+/-)	<ul style="list-style-type: none"> Use place value and number facts to solve problems Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100
Mental +/-	<ul style="list-style-type: none"> Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: TU+U, TU+T, TU+TU and U+U+U Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot
Written +/-	
Problems +/-	<ul style="list-style-type: none"> Solve problems with addition and subtraction, using concrete, pictorial and abstract representations Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.
Number facts (x/÷)	<ul style="list-style-type: none"> Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers
Mental (x/÷)	<ul style="list-style-type: none"> Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals (=) signs Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot
Written (x/÷)	
Problems (x/÷)	<ul style="list-style-type: none"> Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts
Recognising fractions	<ul style="list-style-type: none"> Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity
Comparing fractions	
Finding fractions of quantities	
Fraction calculations	<ul style="list-style-type: none"> Write simple fractions for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$.

Year 2 – Continued (NC links)

Decimals as fractional amounts	
Ordering decimals	

Calculating with decimals	
Percentages	
Fraction problems	
Ratio & Proportion	
Algebra	
Measures	<ul style="list-style-type: none"> Choose and use appropriate standard units to estimate and measure length/height (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels Compare and order lengths, mass, volume/capacity and record the results using $>$, $<$ and $=$
Mensuration	
Money	<ul style="list-style-type: none"> Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value Find different combinations of coins that equal the same amounts of money Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change
Time	<ul style="list-style-type: none"> Compare and sequence intervals of time 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 Know the number of minutes in an hour and the number of hours in a day
Shape vocabulary	<ul style="list-style-type: none"> <i>(vertices, edges, faces, symmetry)</i>
Properties of 2-d shape	<ul style="list-style-type: none"> Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line. Compare and sort common 2-D and 3-D shapes and everyday objects.
Properties of 3-d shape	<ul style="list-style-type: none"> Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces Identify 2-D shapes on the surface of 3-D shapes. Compare and sort common 2-D and 3-D shapes and everyday objects.



Year 2 – Continued (NC links)

Angles	
Position & Direction	<ul style="list-style-type: none">• Order and arrange combinations of mathematical objects in patterns and sequences.• 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 $\frac{3}{4}$ turns
Interpreting data	<ul style="list-style-type: none">• Interpret and construct simple pictograms, tally charts, block diagrams and simple tables
Extract info from data	<ul style="list-style-type: none">• Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity• Ask and answer questions about totalling and comparing categorical data