## Maths Progression of Skills

## The document below demonstrates how we structure and sequence our maths curriculum across the school to ensure our pupils gain a rich and wide range of mathematical skills, knowledge and vocabulary, effectively built upon year on year.

## Number and Place Value

| EYFS | Year 1 | Year 2 |
| :---: | :---: | :---: |
| Select the correct numeral to represent 1 to 5 , then 1 to 10 objects and 1 to 20 objects. <br> Count an irregular arrangement of up to ten objects. <br> Count reliably with numbers from 1 to 20. <br> Place numbers from 1-20 in order. <br> Say which number is one more or one less than a given number to 20 . <br> Estimate how many objects they can see from a small quantity and check by counting them. | Count to and across 100, forwards and backwards, beginning with 0 or 1 , or from any given number. <br> Count, read and write numbers to 100 in numerals. <br> Count in multiples of twos, fives and tens <br> Given a number to 100 , identify one more and one less <br> 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, <br> Read and write numbers from 1 to 20 in numerals and words. | Count in steps of 2, 3, and 5 from 0 , and in tens from any number, forward and backward <br> Recognise the place value of each digit in a two-digit number (tens, ones) <br> Identify, represent and estimate numbers using different representations, including the number line <br> Compare and order numbers from 0 up to 100; use more than, less than and = signs <br> Read and write numbers to at least 100 in numerals and in words <br> Use place value and number facts to solve problems |

## Addition and Subtraction

| EYFS | Year 1 | Year 2 |
| :---: | :---: | :---: |
| Finds the total number of items in two groups by counting all of them. [up to 20] <br> Find one more or one less from a group of up to five objects, then ten objects. <br> Use the language of 'more' and 'fewer' to compare two sets of objects. <br> Using quantities and concrete objects, add and subtract two single-digit numbers and count on or back to find the answer. <br> In practical activities and discussion, beginning to use the vocabulary involved in adding and subtracting. <br> Record, using marks that they can interpret and explain. | Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs <br> Represent and use number bonds and related subtraction facts within 20 <br> Add and subtract one-digit and two-digit numbers to 20 , including zero <br> Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7=-9$. | Solve problems with addition and subtraction: <br> \& using concrete objects and pictorial representations, including those involving numbers, quantities and measures <br> \& applying their increasing knowledge of mental and written methods <br> recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 <br> add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <br> * a two-digit number and ones <br> * a two-digit number and tens <br> \& two two-digit numbers <br> \& adding three one-digit numbers <br> show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot <br> recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. |

## Multiplication and Division [EYFS in the context of doubling, halving and sharing]

| EYFS | Year 1 | Year 2 |
| :---: | :---: | :---: |
| Solve simple practical problems, including doubling, halving and sharing. | 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. | recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers <br> calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication $(\times)$, division $(\div)$ and equals (=) signs <br> show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot <br> solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts. |

## Fractions [EYFS in the context of halving and sharing]

| EYFS | Year 1 | Year $\mathbf{2}$ |
| :--- | :--- | :--- |
| Solve simple practical problems involving <br> halving. | Recognise, find and name a half as one of two equal <br> parts of an object, shape or quantity <br> Recognise, find and name a quarter as one of four <br> equal parts of an object, shape or quantity | Recognise, find, name and write fractions $1 / 3,1 / 4$, <br> $2 / 4$ and $3 / 4$ of a length, shape, set of objects or <br> quantity. |
| Write simple fractions e.g. $1 / 2$ of $6=3$ and recognise |  |  |
| the equivalence of $2 / 4$ and $1 / 2$. |  |  |

## Measurement

| EYFS | Year 1 | Year 2 |
| :--- | :--- | :--- | :--- | :--- |

## Geometry -properties of shapes

| EYFS | Year 1 | Year 2 |
| :--- | :--- | :--- |
| Begin to use mathematical names for 'solid' <br> 3D shapes and 'flat' 2D shapes. | recognise and name common 2-D and 3-D shapes, <br> including: | identify and describe the properties of 2-D shapes, <br> including the number of sides and line symmetry in a <br> vertical line |
| Use familiar objects and common shapes to <br> create and recreate patterns and build <br> models. | i 2-D shapes [for example, rectangles (including <br> squares), circles and triangles] | 3-D shapes [for example, cuboids (including cubes), <br> identify and describe the properties of 3-D shapes, <br> including the number of edges, vertices and faces |
| Explore characteristics of everyday objects spheres]. <br> and shapes and use simple mathematical <br> language to describe them. | identify 2-D shapes on the surface of 3-D shapes, [for <br> example, a circle on a cylinder and a triangle on a <br> pyramid] |  |

## Geometry -position and direction

| EYFS | Year $\mathbf{1}$ | Year $\mathbf{2}$ |
| :--- | :--- | :--- |
| Describe their relative position using <br> everyday language such as 'behind, 'in front <br> of' or 'next to'. | Describe position, direction and movement, including <br> whole, half, quarter and three quarter turns. | Order and arrange combinations of mathematical <br> objects in patterns and sequences |
| Describe simple directions, e.g. forwards, <br> backwards. |  | Use mathematical vocabulary to describe position, <br> direction and movement, including movement in a <br> straight line and distinguishing between rotation as a <br> turn and in terms of right angles for quarter, half and <br> three-quarter turns (clockwise and anticlockwise). <br> Recognise, create and describe simple <br> patterns |

## Statistics

| EYFS | Year 1 | Year 2 |
| :---: | :---: | :---: |
|  |  | Interpret and construct simple pictograms, tally charts, block diagrams and simple tables <br> Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity <br> Ask and answer questions about totalling and comparing categorical data. |

