## Number: Number and Place Value Whole School Progression Map

| Essential knowledge for a mathematician: <br> - Knowledge of place value <br> - Knowledge of calculation using all four operations <br> - Knowledge of fractions and percentages <br> - Knowledge of geometry (shape, space and measure) <br> - Knowledge of statistics <br> - Knowledge of ratio and proportion <br> - Knowledge of algebra | Essential skills for a mathematician: <br> - To problem solve <br> - To reason about mathematical ideas and concepts <br> - To make links and transfer skills across the mathematical curriculum, other areas of the curriculum and in real life <br> - To be excited and inquisitive about maths |
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|  |  | COUNTING |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| F1 | F2 | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| To sing a range of number songs. <br> To rote count up to 10. To rote count up to 10 forwards/ backwards. To rote count up to 15 forwards and backwards | To count up to 10 objects with 1:1 correspondence <br> To count, order and recognise numerals to 15 , in and out of sequence. <br> To count, order and recognise numerals to 20 , in and out of sequence. | count to and across 100, forwards and backwards, beginning with 0 or 1 , or from any given number |  |  | count backwards through zero to include negative numbers | interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero | use negative numbers in context, and calculate intervals across zero |
| To show an understanding of 1:1 counting to 5 . <br> To count out a group of up to 5 objects <br> To count out a group of up to 10 objects and match to numeral | To match quantities to numerals to 10 | count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens | count in steps of 2,3, and 5 from 0 , and in tens from any number, forward or backward | count from 0 in multiples of $4,8,50$ and 100 ; | count in multiples of 6, 7, 9,25 and 1000 | count forwards or backwards in steps of <br> powers of 10 for any given <br> number up to 1000000 |  |
| To count out a group of up to 10 objects and match to numeral <br> To know that the last number you count represents the total number of objects <br> To know that each object should only be counted once | To match quantities to numerals to 10 | given a number, identify one more and one less |  | find 10 or 100 more or less than a given number | find 1000 more or less than a given number |  |  |




