



# Misterton Primary and Nursery School –Progression in Maths Place Value



| Key Areas                                               | Reception                                                                                                                                                         | Year 1                                                                                                                                                                                                                                                                                 | Year 2                                                                                                            | Year 3                                                                                                                           | Year 4                                                                                                                                                                                  | Year 5                                                                                                                                                                                                                                                          | Year 6                                                                                                                                                         |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Counting</b>                                         | <p>Know how to:</p> <p>verbally count beyond 20, recognizing the pattern of the counting system.</p>                                                              | <p>Know how to:</p> <p>count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number.</p> <p>count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens</p> <p>given a number, identify one more and one less</p> | <p>Know how to:</p> <p>count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward</p> | <p>Know how to:</p> <p>count from 0 in multiples of 4, 8, 50 and 100;</p> <p>find 10 or 100 more or less than a given number</p> | <p>Know how to:</p> <p>count backwards through zero to include negative numbers</p> <p>count in multiples of 6, 7, 9, 25 and 1000</p> <p>find 1000 more or less than a given number</p> | <p>Know how to:</p> <p>interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero</p> <p>count forwards or backwards in steps of powers of 10 for any given number up to 1000 000</p> | <p>Know how to:</p> <p>use negative numbers in context, and calculate intervals across zero</p>                                                                |
| <b>Comparing numbers</b>                                | <p>Know how to compare quantities up to 10 in different contexts, recognizing when one quantity is greater than, less than or the same of the other quantity.</p> | <p>Know the language of: equal to, more than, less than (fewer), most, least</p>                                                                                                                                                                                                       | <p>Know how to compare and order numbers from 0 up to 100; use &lt;, &gt; and = signs</p>                         | <p>Know how to compare and order numbers up to 1000</p>                                                                          | <p>Know how to order and compare numbers beyond 1000</p>                                                                                                                                | <p>Know how to read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers)</p>                                                                                             | <p>Know how to read, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers)</p> |
| <b>Identifying, representing and estimating numbers</b> | <p>Know how to subitise (recognise quantities without counting) up to 5.</p>                                                                                      | <p>Know how to identify and represent numbers using objects and pictorial representations</p>                                                                                                                                                                                          | <p>Know how to identify, represent and estimate numbers using different representations,</p>                      | <p>Know how to identify, represent and estimate numbers using a range of different representations</p>                           | <p>Know how to identify, represent and estimate numbers using a range of different representations</p>                                                                                  | <p><i>Know how to apply estimation skills with increasing accuracy</i></p>                                                                                                                                                                                      | <p><i>Know how to apply estimation skills confidently and accurately</i></p>                                                                                   |

|  |                                                                                              |                           |                           |  |  |  |  |
|--|----------------------------------------------------------------------------------------------|---------------------------|---------------------------|--|--|--|--|
|  | Know and have deep understanding of numbers to 10, including the composition of each number. | including the number line | including the number line |  |  |  |  |
|--|----------------------------------------------------------------------------------------------|---------------------------|---------------------------|--|--|--|--|

|                                                             |                                                                        |                                                                                        |                                                                                                                                                                                                                                                          |                                                                                                                                                     |                                                                                                                                                                                                                                                                                                            |                                                                                                                                                         |
|-------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reading and Writing Numbers including Roman Numerals</b> | Know how to read and write numbers from 1 to 20 in numerals and words. | Know how to read and write numbers to at least 100 in numerals and in words            | Know how to read and write numbers up to 1 000 in numerals and in words<br><br><i>Know how to tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks (copied from Measurement)</i> | Know how to read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value. | Know how to read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit (appears also in Comparing Numbers)<br><br>Know how to read Roman numerals to 1000 (M) and recognise years written in Roman numerals.                                                       | Know how to read, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears also in Understanding Place Value)   |
| <b>Understanding Place Value</b>                            |                                                                        | Know how to recognise the place value of each digit in a two-digit number (tens, ones) | Know how to recognise the place value of each digit in a three-digit number (hundreds, tens, ones)                                                                                                                                                       | Know how to recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)                                    | Know how to read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers)<br><br><i>Know how to recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents (copied from Fractions)</i> | Know how to read, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers) |

|                        |                                                    |                                                                     |                                                                                                                                                                                        |                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                  |
|------------------------|----------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Rounding</b>        |                                                    |                                                                     | <p>Know how to round any number to the nearest 10, 100 or 1000</p> <p><i>Know how to round decimals with one decimal place to the nearest whole number (copied from Fractions)</i></p> | <p>Know how to round any number up to 1 000 000 to the nearest 10, 100, 1 000, 10 000 and 100 000</p> <p><i>Know how to round decimals with two decimal places to the nearest whole number and to one decimal place (copied from Fractions)</i></p> | <p>Know how to round any whole number to a required degree of accuracy</p> <p><i>Know how to solve problems which require answers to be rounded to specified degrees of accuracy (copied from Fractions)</i></p> |
| <b>Problem Solving</b> | use place value and number facts to solve problems | solve number problems and practical problems involving these ideas. | solve number and practical problems that involve all of the above and with increasingly large positive numbers                                                                         | solve number problems and practical problems that involve all of the above                                                                                                                                                                          | solve number and practical problems that involve all of the above                                                                                                                                                |