



## Queen's Park C.E/U.R.C Primary School: Maths Progression Map

### Number and Place Value

Counting						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p><i>DM: count objects, actions and sounds.</i></p> <p><i>DM: count beyond ten.</i></p> <p><i>verbally count beyond 20, recognising the pattern of the counting system</i></p> <p><i>DM: understand the 'one more than/one less than' relationship between consecutive numbers</i></p>	<p><i>count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number</i></p> <p><i>count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens</i></p> <p><i>given a number, identify one more and one less</i></p>	<p><i>count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward</i></p>	<p><i>count from 0 in multiples of 4, 8, 50 and 100;</i></p> <p><i>find 10 or 100 more or less than a given number</i></p>	<p><i>count backwards through zero to include negative numbers</i></p> <p><i>count in multiples of 6, 7, 9, 25 and 1000</i></p> <p><i>find 1000 more or less than a given number</i></p>	<p><i>interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero</i></p> <p><i>count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000</i></p>	<p><i>use negative numbers in context, and calculate intervals across zero</i></p>

Comparing Numbers						
<p><i>compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity</i></p> <p><i>DM: compare numbers, using vocabulary such as 'more than', 'less than', 'fewer', 'the same as', 'equal to'.</i></p>	<p><i>use the language of: equal to, more than, less than (fewer), most, least</i></p>	<p><i>compare and order numbers from 0 up to 100; use &lt;, &gt; and = signs</i></p>	<p><i>compare and order numbers up to 1 000</i></p>	<p><i>order and compare numbers beyond 1 000</i></p>	<p><i>read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit</i></p>	<p><i>read, write, order and compare numbers up to 10 000 000 and determine the value of each digit</i></p>

Identifying, Representing and Estimating Numbers

<p><i>DM: link the number symbol (numeral) with its cardinal number value</i></p> <p><i>have a deep understanding of number to 10, including the composition of each number</i></p> <p><i>subitise (recognise quantities without counting) up to 5</i></p>	<p><i>identify and represent numbers using objects and pictorial representations including the number line</i></p>	<p><i>identify, represent and estimate numbers using different representations, including the number line</i></p>	<p><i>identify, represent and estimate numbers using different representations</i></p>	<p><i>identify, represent and estimate numbers using different representations</i></p>		
--	--	---	--	--	--	--

### Reading and Writing Numbers (Including Roman Numerals)

<p><i>DM: link the number symbol (numeral) with its cardinal number value</i></p> <p><i>have a deep understanding of number to 10, including the composition of each number</i></p>	<p><i>read and write numbers from 1 to 20 in numerals and words.</i></p>	<p><i>read and write numbers to at least 100 in numerals and in words</i></p>	<p><i>read and write numbers up to 1 000 in numerals and in words</i></p> <p><i>tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks (Measurement)</i></p>	<p><i>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.</i></p>	<p><i>read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit</i></p> <p><i>read Roman numerals to 1 000 (M) and recognise years written in Roman numerals.</i></p>	<p><i>read, write, order and compare numbers up to 10 000 000 and determine the value of each digit</i></p> <p><i>Y5 retrieval - read Roman numerals to 1000 and recognise years written in Roman Numerals.</i></p>
---	--	---	--	---	--	---

### Understanding Place Value

<p><i>verbally count beyond 20, recognising the pattern of the counting system.</i></p>		<p><i>recognise the place value of each digit in a two-digit number (tens, ones)</i></p>	<p><i>recognise the place value of each digit in a three-digit number (hundreds, tens, ones)</i></p>	<p><i>recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)</i></p> <p><i>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 units, tenths and hundredths (FDP)</i></p>	<p><i>read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit</i></p> <p><i>recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents (FDP)</i></p>	<p><i>read, write, order and compare numbers up to 10 000 000 and determine the value of each digit</i></p> <p><i>identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1 000 where the answers are up to three decimal places (FDP)</i></p>
---	--	--	--	--	--	--

## Rounding

				<p>round any number to the nearest 10, 100 or 1 000</p> <p>round decimals with one decimal place to the nearest whole number (FDP)</p>	<p>round any number up to 1 000 000 to the nearest 10, 100, 1 000, 10 000 and 100 000</p> <p>round decimals with two decimal places to the nearest whole number and to one decimal place (FDP)</p>	<p>round any whole number to a required degree of accuracy</p> <p>solve problems which require answers to be rounded to specified degrees of accuracy (FDP)</p>
--	--	--	--	--	--	---

## Problem Solving

		<p>use place value and number facts to solve problems</p>	<p>solve number problems and practical problems involving these ideas.</p>	<p>solve number and practical problems that involve all of the above and with increasingly large positive numbers</p>	<p>solve number problems and practical problems that involve all of the above</p>	<p>solve number and practical problems that involve all of the above</p>
--	--	---	--	---	---	--