



# Barford St. Peter's C.E. (V.A.) Primary School



Together we love; together we learn

## Maths Knowledge and Skills Progression for: NUMBER AND PLACE VALUE

	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Counting	<ul style="list-style-type: none"> <li>count to and across 20</li> <li>have a deep understanding of the numbers up to 10</li> </ul>	<ul style="list-style-type: none"> <li>count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number</li> <li>count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens</li> <li>given a number, identify one more and one less</li> </ul>	<ul style="list-style-type: none"> <li>count in steps of 2,3, and 5 from 0 and in tens from any number, forward or backward</li> </ul>	<ul style="list-style-type: none"> <li>count from 0 in multiples of 4,8,50 and 100</li> <li>find 10 or 100 more or less than a given number</li> </ul>	<ul style="list-style-type: none"> <li>count backwards through zero to include negative numbers</li> <li>count in multiples of 6,7,9,25 and 1000</li> <li>find 1000 more or less than a given number</li> </ul>	<ul style="list-style-type: none"> <li>interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero</li> <li>count forwards or backwards in steps of powers of 10 for any given number up to 1000 000</li> </ul>	<ul style="list-style-type: none"> <li>use negative numbers in context and calculate intervals across zero</li> </ul>
Comparing numbers	<ul style="list-style-type: none"> <li>compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity</li> </ul>	<ul style="list-style-type: none"> <li>use the language of: equal to, more than, less than (fewer), most, least</li> </ul>	<ul style="list-style-type: none"> <li>compare and order numbers from 0 up to 100; use &lt;, &gt; and = signs</li> </ul>	<ul style="list-style-type: none"> <li>compare and order numbers up to 1000</li> </ul>	<ul style="list-style-type: none"> <li>order and compare numbers beyond 1000</li> <li>compare and order numbers with the same number of decimal places up to two decimal places</li> </ul>	<ul style="list-style-type: none"> <li>read, write, order and compare numbers up to at least 1 000 000 and determine the value of each digit</li> </ul>	<ul style="list-style-type: none"> <li>read, write, order and compare numbers up to at least 10 000 000 and determine the value of each digit</li> </ul>
Identifying, representing and estimating numbers	<ul style="list-style-type: none"> <li>subitise up to 5</li> </ul>	<ul style="list-style-type: none"> <li>identify and represent numbers using objects and pictorial representations including the number line</li> </ul>	<ul style="list-style-type: none"> <li>identify, represent and estimate numbers using different representations, including the number line</li> </ul>	<ul style="list-style-type: none"> <li>identify, represent and estimate numbers using different representations</li> </ul>	<ul style="list-style-type: none"> <li>identify, represent and estimate numbers using different representations</li> </ul>		



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	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Reading and writing numbers (including Roman Numerals)	<ul style="list-style-type: none"> <li>Recognise the numerals from 1-10</li> </ul>	<ul style="list-style-type: none"> <li>read and write numbers from 1 to 20 in numerals and words</li> </ul>	<ul style="list-style-type: none"> <li>read and write numbers to at least 100 in numerals and in words</li> </ul>	<ul style="list-style-type: none"> <li>read and write numbers up to 1000 in numerals and in words</li> <li>tell and write the time from an analogue clock, including using Roman numerals from I to XII</li> </ul>	<ul style="list-style-type: none"> <li>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</li> </ul>	<ul style="list-style-type: none"> <li>read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit</li> <li>read Roman numerals to 1000 (M) and recognise years written in Roman numerals</li> </ul>	<ul style="list-style-type: none"> <li>read, write, order and compare numbers up to 10 000 000 and determine the value of each digit</li> </ul>
Understanding place value			<ul style="list-style-type: none"> <li>recognise the place value of each digit in a two-digit number (tens, ones)</li> </ul>	<ul style="list-style-type: none"> <li>recognise the place value of each digit in a threedigit number (hundreds, tens, ones)</li> </ul>	<ul style="list-style-type: none"> <li>recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)</li> <li>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</li> </ul>	<ul style="list-style-type: none"> <li>read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit</li> <li>recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</li> </ul>	<ul style="list-style-type: none"> <li>read, write, order and compare numbers up to 10 000 000 and determine the value of each digit</li> <li>identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places</li> </ul>
Rounding					<ul style="list-style-type: none"> <li>round any number to the nearest 10, 100 or 1 000</li> <li>round decimals with one decimal place to the nearest whole number</li> </ul>	<ul style="list-style-type: none"> <li>round any number up to 1 000 000 to the nearest 10, 100, 1 000, 10 000 and 100 000</li> <li>round decimals with two decimal places to the nearest whole number and to 1d.p.</li> </ul>	<ul style="list-style-type: none"> <li>round any whole number to a required degree of accuracy</li> <li>solve problems which require answers to be rounded to specified degrees of accuracy</li> </ul>



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Problem Solving	<ul style="list-style-type: none"><li>explore and represent patterns within the numbers up to 10</li></ul>		<ul style="list-style-type: none"><li>use place value and number facts to solve problems</li></ul>	<ul style="list-style-type: none"><li>solve number problems and practical problems involving these ideas</li></ul>	<ul style="list-style-type: none"><li>solve number and practical problems that involve all of the above and with increasingly large positive numbers</li></ul>	<ul style="list-style-type: none"><li>solve number problems and practical problems that involve all of the above</li></ul>	<ul style="list-style-type: none"><li>solve number and practical problems that involve all of the above</li></ul>