St John the Evangelist Maths Progression in Skills

| Place Value |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Counting |  |  |  |  |  |
| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| *Count to and across 100, forwards and backwards, beginning with 0 or 1 or from any given number. <br> *Count 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 given number, forward and backwards | *Count from 0 in multiples of $4,8,50$ and 100; find 10 or 100 more or less than a given number. | *Count in multiples of 6,7,9,25 and 1000 <br> *Count backwards through zero to include negative numbers | *Count forwards or backwards in steps of powers of 10 for any given number up to 1000000 *Count forwards and backwards with positive and negative whole numbers, including through zero |  |
| Represent |  |  |  |  |  |
| *Identify and represent numbers using objects and pictorial representations *Read and write numbers to 100 in numerals <br> *Read and write numbers from 1-20 in numerals and words | *Read and write numbers to at least 100 in numerals and in words <br> *Identify, represent and estimate numbers using different representations, including the number line. | *Identify, represent and estimate numbers using different representations *Read and write numbers up to 1000 in numerals and words | *Identify, represent and estimate numbers using different representations *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. | *Read, write (order and compare) numbers to at least 1000000 and determine the value of each digit <br> *Read Roman numerals to 1000 (M) and recognize years written in Roman numerals. | *Read, write (order and compare) numbers up to 10 000000 and determine the value of each digit. |
| Use and compare |  |  |  |  |  |
| Given a number, identify one more and one less | Recognise the place value of each digit in a two-digit number (tens, ones) Compare and order numbers from 0 up to 100, use < , > and $=\operatorname{signs}$ | Recognise the place value of each digit in a three-digit number (hundreds, tens, ones) <br> Compare and order numbers up to 1000 | Find 1000 more or less than a given number <br> Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, ones) Order and compare numbers beyond 1000 | (Read, write) order and compare numbers to at least 1000000 and determine the value of each digit | (Read, write) order and compare numbers up to 10 000000 and determine the value of each digit. |
| Problems/Rounding |  |  |  |  |  |



| Addition and subtraction |  |  |  |  |  |
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| Calculations |  |  |  |  |  |
| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| *Add and subtract one-digit and two-digit numbers to 20 , including zero | *Add and subtract numbers using concrete objects, pictorial representations and mentally, including: -a two-digit number and ones <br> -a two-digit number and tens <br> - two two-digit numbers Adding three one-digit numbers | *Add and subtract numbers mentally, including: <br> -a three-digit number and ones <br> -a three-digit number and tens <br> -a three-digit number and hundreds <br> *Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction | *Add and subtract numbers with up to 4 digits using formal written methods of columnar addition and subtraction, where appropriate | *Add and subtract whole numbers with more than 4 digits, including using formal written methods. <br> *Add and subtract numbers mentally with increasingly large numbers | *Perform mental calculations, including with mixed operations and large numbers <br> *Use knowledge of the order of operations to carry out calculations involving the four operations. |
| Problems |  |  |  |  |  |
| *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: -using concrete objects and pictorial representations, including those involving numbers, quantities and measures | *Solve problems including missing number problems, using number facts, place value, and more complex addition and subtraction. | *Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why. | *Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why *Solve problems involving addition subtraction, multiplication and division and a combination of these, | *Solve addition and subtraction multi step problems in contexts, deciding which operations and methods to use and why. |



|  |  |  |  | Multiply and divide whole <br> numbers and those involving <br> decimals by 10, 100 and <br> 1000 |
| :--- | :--- | :--- | :--- | :--- |
|  |  | * Divide numbers up to 4 <br> digits by a two-digit whole <br> number using the formal <br> written method of short <br> division where appropriate, <br> interpreting remainders <br> according to the context. <br> *Perform mental <br> calculations, including with <br> mixed operations and large <br> numbers. |  |  |

