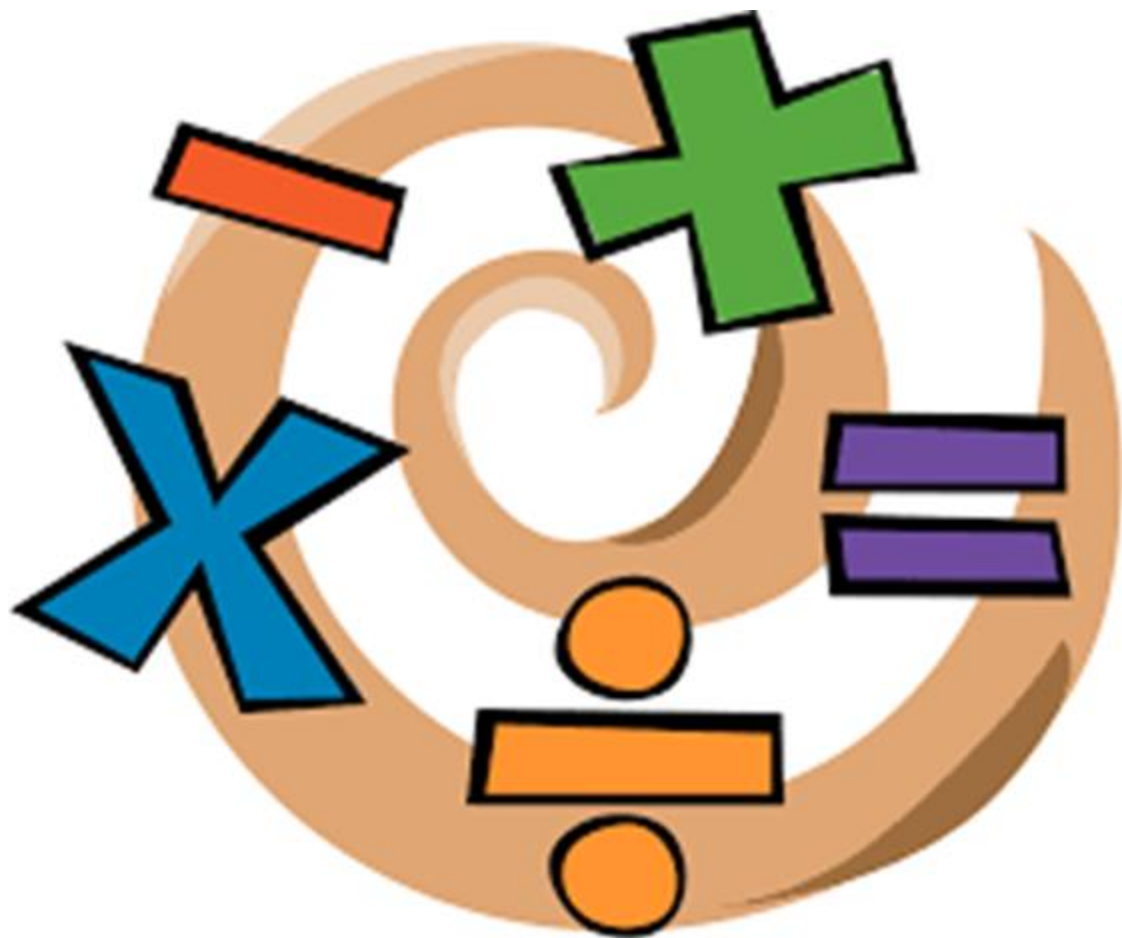




# St Luke's CE Primary

## Maths Progression Map and End Points



## Progression and End Points in Learning in the Maths Curriculum Reception

- counts in steps of 1 from 0 to 20 forwards and backwards and then beyond
- counting in 1's forwards and backwards from any number up to 20 and then beyond recognising the pattern of the counting system.
- Link the number symbol (numeral) with its cardinal number value.
- Explore the composition of numbers to 10.
- Automatically recall number bonds for numbers 0–5 and some to 10.
- Have a deep understanding of number to 10, including the composition of each number.
- Subitise (recognise quantities without counting up to 5).
- Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.
- compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.
- explore and represent patterns within numbers up to 10, including evens and odds,
- double facts and how quantities can be distributed equally
- in practical activities explore halves of whole amounts
- compare length, weight and capacity.
- Select, rotate and manipulate shapes in order to develop spatial reasoning skills.
- Selects a particular named shape.
- Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can.
- continue, copy and creates repeating patterns.
- uses everyday language to talk about position and distance.
- explore and represent patterns within numbers up to 10

## Progression and End Points in Learning in the Maths Curriculum

Year 1	Year 2	Year 3
<ul style="list-style-type: none"> <li>• Count to and across 100, forwards &amp; backwards from any number.</li> <li>• Read and write numbers to 20 in numerals &amp; words.</li> <li>• Read and write numbers to 100 in numerals.</li> <li>• Say 1 more/1 less to 100.</li> <li>• Count in multiples of 2, 5 &amp; 10.</li> <li>• Use bonds and subtraction facts to 20.</li> <li>• Add &amp; subtract 1 digit &amp; 2 digit numbers to 20, including zero.</li> <li>• Solve one-step multiplication and division using objects, pictorial representation and arrays.</li> <li>• Recognise half and quarter of object, shape or quantity.</li> <li>• Sequence events in chronological order.</li> <li>• Use language of day, week, month and year.</li> <li>• Tell time to hour &amp; half past.</li> </ul>	<ul style="list-style-type: none"> <li>• Compare and order numbers up to 100 and use <math>&lt;</math> <math>&gt;</math> <math>=</math></li> <li>• Read and write all numbers to 100 in digits &amp; words.</li> <li>• Say 10 more/less than any number to 100.</li> <li>• Count in steps of 2, 3 &amp; 5 from zero and in 10s from any number (forwards and backwards).</li> <li>• Recall and use multiplication &amp; division facts for 2, 5 &amp; 10 tables.</li> <li>• Recall and use <math>+/-</math> facts to 20.</li> <li>• Derive and use related facts to 100.</li> <li>• Recognise place value of any 2-digit number.</li> <li>• Add &amp; subtract: 2-digit nos &amp; ones 2-digit nos &amp; tens Two 2-digit nos Three 1-digit nos</li> <li>• Recognise and use inverse (<math>+/-</math>).</li> <li>• Calculate and write multiplication &amp; division calculations using multiplication tables.</li> <li>• Recognise, find, name and write <math>1/3</math>; <math>1/4</math>; <math>2/4</math>; <math>3/4</math>.</li> <li>• Write and recognise equivalence of simple fractions.</li> <li>• Tell time to five minutes, including quarter past/to.</li> </ul>	<ul style="list-style-type: none"> <li>• Compare &amp; order numbers up to 1000.</li> <li>• Read &amp; write all numbers to 1000 in digits and words.</li> <li>• Find 10 or 100 more/less than a given number.</li> <li>• Count from 0 in multiples of 4, 8, 50 and 100.</li> <li>• Recall &amp; use multiplication &amp; division facts for 3, 4, 8 tables.</li> <li>• Recognise place value of any 3-digit number.</li> <li>• Add and subtract: 3-digit nos and ones 3-digit nos and tens 3-digit nos and hundreds</li> <li>• Add and subtract: Numbers with up to 3-digits using written columnar method.</li> <li>• Estimate and use inverse to check.</li> <li>• Multiply: 2-digit by 1-digit</li> <li>• Count up/down in tenths.</li> <li>• Compare and order fractions with same denominator.</li> <li>• Add and subtract fractions with same denominator with whole.</li> <li>• Tell time using 12 and 24 hour clocks; and using Roman numerals.</li> <li>• Tell time to nearest minute.</li> <li>• Know number of days in each month and number of seconds in a minute.</li> </ul>
Year 4	Year 5	Year 6
<ul style="list-style-type: none"> <li>• Count backwards through zero to include negative numbers.</li> <li>• Compare and order numbers beyond 1,000.</li> <li>• Compare and order numbers with up to 2 decimal places.</li> <li>• Read Roman numerals to 100.</li> <li>• Find 1,000 more/less than a given number.</li> <li>• Count in multiples of 6, 7, 9, 25 and 1000.</li> <li>• Recall and use multiplication and division facts all tables to <math>12 \times 12</math>.</li> <li>• Recognise PV of any 4-digit number.</li> <li>• Round any number to the nearest 10, 100 or 1,000.</li> <li>• Round decimals with 1dp to nearest whole number.</li> <li>• Add and subtract numbers with up to 4-digits using written columnar method.</li> <li>• Multiply: 2-digit by 1-digit 3-digit by 1-digit</li> <li>• Count up/down in hundredths.</li> <li>• Recognise and write equivalent fractions</li> <li>• Add and subtract fractions with same denominator.</li> <li>• Read, write and convert time between analogue and digital 12 and 24 hour clocks.</li> </ul>	<ul style="list-style-type: none"> <li>• Count forwards and backward with positive and negative numbers through zero.</li> <li>• Count forwards/backwards in steps of powers of 10 for any given number up to 1,000,000.</li> <li>• Compare and order numbers up to 1,000,000.</li> <li>• Compare and order numbers with 3 decimal places.</li> <li>• Read Roman numerals to 1,000.</li> <li>• Identify all multiples and factors, including finding all factor pairs.</li> <li>• Use known tables to derive other number facts.</li> <li>• Recall prime numbers up to 19.</li> <li>• Recognise and use square numbers and cube numbers.</li> <li>• Recognise place value of any number up to 1,000,000.</li> <li>• Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 or 100,000.</li> <li>• Round decimals with 2 decimal places to nearest whole number and 1 decimal place.</li> <li>• Add and subtract numbers with more than 4-digits using formal written method.</li> <li>• Use rounding to check answers.</li> <li>• Multiply 4-digits by 1-digit/ 2-digit</li> <li>• Divide up to 4-digits by 1-digit</li> <li>• Multiply &amp; divide whole numbers &amp; decimals by 10, 100 and 1,000</li> <li>• Recognise and use thousandths.</li> <li>• Recognise mixed numbers and improper fractions and convert from one to another.</li> <li>• Multiply proper fractions and mixed numbers by whole numbers.</li> <li>• Identify and write equivalent fractions.</li> <li>• Solve time problems using timetables and converting between different units of time.</li> </ul>	<ul style="list-style-type: none"> <li>• Use negative numbers in context and calculate intervals across zero.</li> <li>• Compare and order numbers up to 10,000,000.</li> <li>• Identify common factors, common multiples and prime numbers.</li> <li>• Round any whole number to a required degree of accuracy.</li> <li>• Identify the value of each digit to 3 decimal places.</li> <li>• Use knowledge of order of operations to carry out calculations involving four operations.</li> <li>• Multiply 4-digit by 2-digit</li> <li>• Divide 4-digit by 2-digit</li> <li>• Recognise the relationship between fractions, decimals and percentages, finding equivalences.</li> <li>• Add and subtract fractions with different denominators and mixed numbers.</li> <li>• Multiply simple pairs of proper fractions, writing the answer in the simplest form.</li> <li>• Divide proper fractions by whole numbers.</li> <li>• Calculate percentage of whole number.</li> <li>• Solve simple algebraic problems.</li> <li>• Calculate with measures</li> <li>• Use mathematical reasoning to find missing angles</li> </ul>