

## **Year 2 Programme of study for Mathematics**

## 13 Key Objectives are underlined

| Number & Place Value   | Addition & Subtraction  | Multiplication & Division   | Measurement  | Geometry: Properties of Shapes   |
|--|---|---|--|--|
| <ul> <li>Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward.</li> <li>Recognise the place value of each digit in a two-digit number (tens, ones).</li> <li>Identify, represent and estimate numbers using different representations, including the number line.</li> <li>Compare and order numbers from 0 up to 100; use &lt;, &gt; and = signs.</li> </ul> | Recall and use addition and subtraction facts to 20 and 100:  | <ul> <li>Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.</li> <li>Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs.</li> <li>Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.</li> <li>Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts,</li> </ul> | Choose and use appropriate standard units to estimate and measure to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels:  I length/height in any direction (m/cm);  I mass (kg/g);  I temperature (°C);  Compare and order lengths, mass, volume/capacity and record the results using >, < and =.  Recognise and use symbols for pounds (£) and pence (p);  Combine amounts to make a particular value.  Find different combinations of coins that equal the same amounts of money. | <ul> <li>❖ Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.</li> <li>❖ Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces</li> <li>❖ Identify 2-D shapes on the surface of 3-D shapes [for example, a circle on a cylinder and a triangle on a pyramid].</li> <li>❖ Compare and sort common 2-D and 3-D shapes and</li> <li>Geometry: Position &amp; Direction</li> <li>❖ Order and arrange combinations of mathematical objects in patterns and sequences.</li> <li>❖ Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).</li> </ul> |
| <ul> <li>Read and write numbers to at least 100 in numerals and in words.</li> <li>Use place value and number facts to solve problems.</li> </ul>  | this to check calculations and solve missing number problems.  Solve problems with addition and subtraction:  Using concrete objects and pictorial representations, including those involving numbers, quantities and measures;  Applying their increasing knowledge of mental and written methods. | including problems in contexts.  Fractions  Recognise, find, name and write fractions 1/3, 1/4, 2/4, and 3/4 of a length, shape, set of objects or quantity.  Write simple fractions for example, 1/2 of 6 = 3 and recognise the equivalence of 2/4 and 1/2.  | <ul> <li>Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.</li> <li>Compare and sequence intervals of time.</li> <li>Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.</li> <li>Know the number of minutes in an hour and number of hours in a day.</li> </ul>   | Statistics  ❖ Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.  ❖ Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.  ❖ Ask and answer questions about totalling and comparing categorical data  |

End of key stage 1: Know number bonds to 20; be precise in using place value; read and spell mathematical vocabulary at a level consistent with their increasing work reading and spelling knowledge at key stage 1.