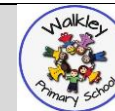


## YEAR 2 MATHS CRUCIAL LEARNING



|        |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Year 2 | Place Value                 | <ol style="list-style-type: none"><li>1. Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward.</li><li>2. Read and write numbers to at least 100 in numerals and words</li><li>3. Identify, represent and estimate numbers using different representations, including the number line.</li><li>4. Recognise the place value of each digit in a two-digit number (tens, one)</li><li>5. Compare and order numbers from 0 up to 100; use <math>&lt;</math>, <math>&gt;</math> and <math>=</math> signs.</li><li>6. Use place value and number facts to solve problems.</li></ol>                                                                                                                                                                                                                                                                                                                                                                          |
| Year 2 | Addition and Subtraction    | <ol style="list-style-type: none"><li>1. Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.</li><li>2. Show that addition of two numbers can be done in any order (commutative) but subtraction of one number from another cannot.</li><li>3. Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.</li><li>4. "Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:</li><li>5. a two-digit number and ones</li><li>6. a two-digit number and tens</li><li>7. two two-digit numbers</li><li>8. adding three one-digit numbers."</li><li>9. 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.</li></ol> |
| Year 2 | Multiplication and division | <ol style="list-style-type: none"><li>1. Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.</li><li>2. Show the multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.</li><li>3. Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (<math>\times</math>), division (<math>\div</math>) and equals (<math>=</math>).</li><li>4. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.</li></ol>                                                                                                                                                                                                               |
| Year 2 | Fractions                   | <ol style="list-style-type: none"><li>1. Recognise, find, name and write fractions <math>\frac{1}{3}</math>, <math>\frac{1}{4}</math>, <math>\frac{2}{4}</math>, and <math>\frac{3}{4}</math> of a length, shape, set of objects or quantity.</li><li>2. Recognise the equivalence of <math>\frac{2}{4}</math> and <math>\frac{1}{2}</math></li><li>3. Write simple fractions for example, <math>\frac{1}{2}</math> of 6 = 3</li><li>4. Compare and order unit fractions and fractions with the same denominators</li><li>5. Add and subtract fractions with the same denominator within one whole (e.g., <math>\frac{5}{7} + \frac{1}{7} = \frac{6}{7}</math>)</li></ol>                                                                                                                                                                                                                                                                                                                  |
| Year 2 | Using measures              | <ol style="list-style-type: none"><li>1. Choose and use appropriate standard units to estimate and measure to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels for:<ul style="list-style-type: none"><li>- length/height in any direction (m/cm);</li></ul></li></ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|---------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               |                                       | <ul style="list-style-type: none"> <li>- mass (kg/g);</li> <li>- temperature (°C);</li> <li>- capacity (litres/ml)."</li> </ul> <p>2. Compare and order lengths, mass, volume/capacity and record the results using &gt;, &lt; and =</p>                                                                                                                                  |
| <b>Year 2</b> | Money                                 | <p>1. Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value.</p> <p>2. Find different combinations of coins that equal the same amount of money</p> <p>3. Solve simple problems in a context involving addition and subtraction of money of the same unit, including giving change.</p>                                      |
| <b>Year 2</b> | Time                                  | <p>1. Compare and sequence intervals of time.</p> <p>2. 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.</p> <p>3. Know the number of minutes in an hour and the number of hours in a day.</p>                                                                                       |
| <b>Year 2</b> | Properties of shape                   | <p>1. Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line; identify 2D shapes on the surface of 3D shapes.</p> <p>2. Compare and sort common 2-D and 3-D shapes and everyday objects.</p> <p>3. Recognise and name common 3D shapes (e.g., cuboids, cubes, pyramids and spheres)</p>                    |
| <b>Year 2</b> | Position and direction                | <p>1. Order and arrange combinations of mathematical objects in patterns and sequences.</p> <p>2. 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)</p> |
| <b>Year 2</b> | Present, interpret and solve problems | <p>1. Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.</p> <p>2. Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.</p> <p>3. Ask and answer questions about totalling and comparing categorical data.</p>                                              |