
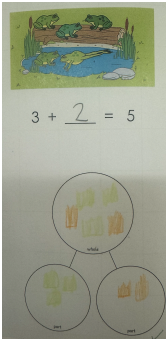


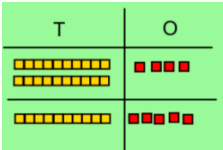
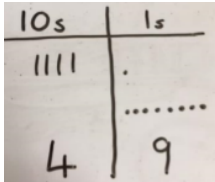
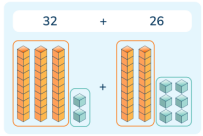
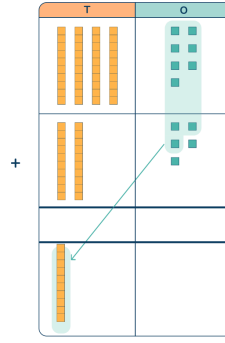
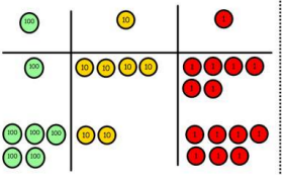



Addition Calculation Policy

	Concrete	Pictorial	Abstract	Vocabulary
<p>EYFS</p> <p>Composition of numbers to 5 and 10.</p> <p>Number bonds to 5 and 10.</p>	<p>Use of cubes to add two numbers together using part whole models.</p> <p>Singing songs (5 little speckled frogs with concrete resources)</p> 	<p>Use pictures and draw representations into a part whole model.</p> 	<p>Use number sentences to show calculations.</p> $3 + 2 = 5$	<p>Add</p> <p>Altogether</p> <p>Whole</p> <p>Equal</p> <p>Part</p> <p>Whole</p>
<p>Year 1</p>	<p>Use of a bead string to add two numbers together.</p> 	<p>Use pictorial representations alongside part whole.</p> 	<p>Use number sentences to show calculations.</p> $17 + 3 = 20$	<p>Add</p> <p>Altogether</p> <p>Whole</p> <p>Equal</p> <p>Partition</p> <p>Part</p> <p>Whole</p> <p>Calculate</p>
<p>Year 2</p>	<p>Use base 10 to add the 1s first and then the 10s.</p> <p>When regrouping, regroup 1 ten for 10 ones.</p> 	<p>Use whiteboards to draw out the column method and dienes.</p> 	$16 + 21 = 37$ $\begin{array}{r} 16 + \\ 21 \\ \hline 37 \end{array}$	<p>Add/Addition</p> <p>Altogether</p> <p>Whole</p> <p>Equal</p> <p>Partition</p> <p>Part</p> <p>Whole</p> <p>Calculate</p> <p>Base 10</p> <p>Column</p> <p>Method</p>

Year 3	<p>Use base 10 or place value counters to represent the following calculation</p> $32 + 26$ 	<p>Use base 10 or place value counters to represent 47+25</p> 	<p>Partition both numbers and recombine.</p> <p>e.g.</p> $361 + 153 = (300 + 100) + (60 + 50) + (1 + 3)$ $= 400 + 110 + 4$ $= 514$ <p>As children progress, they will move to the formal written method.</p> $\begin{array}{r} 243 \\ +368 \\ \hline 611 \\ 1 \quad 1 \end{array}$	<p>addition</p> <p>column addition</p> <p>formal written method</p> <p>addend</p> <p>sum</p> <p>commutative</p> <p>exchange</p> <p>expanded notation</p>
Year 4	<p>Place value counters on whiteboards or place value charts</p> <p>Eg $146 + 527 =$</p> 	<p>Children can draw a pictorial representation of the columns and place value counters to further support their learning and understanding.</p> 	<p>Formal written method</p> $\begin{array}{r} 243 \\ +368 \\ \hline 611 \\ 1 \quad 1 \end{array}$	<p>addition</p> <p>column addition</p> <p>formal written method</p> <p>addend</p> <p>sum</p> <p>commutative</p> <p>exchange</p> <p>expanded notation</p> <p>partition</p>

<p>Year 5</p>	<p>Place value counters on whiteboards or place value charts to add E.g. 2147 + 302</p>	<p>Using place value counters to show $32421 + 24556$</p>	<p>Use column addition, including exchanges.</p> $\begin{array}{r} 48\ 276 \\ + 5\ 613 \\ \hline \end{array}$ <table border="1"> <thead> <tr> <th>TTh</th> <th>Th</th> <th>H</th> <th>T</th> <th>O</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>3</td> <td>4</td> <td>0</td> <td>5</td> </tr> <tr> <td></td> <td>7</td> <td>8</td> <td>9</td> <td>2</td> </tr> <tr> <td>2</td> <td>0</td> <td>2</td> <td>9</td> <td>7</td> </tr> </tbody> </table> <p>Can use estimation to check calculations e.g. 23,000 + 8,000 to check.</p>	TTh	Th	H	T	O	2	3	4	0	5		7	8	9	2	2	0	2	9	7	<p>addition column addition formal written method addend sum commutative exchange expanded notation partition inverse operation (to check response) decimals and decimal notation when adding money (£ and p)</p>
TTh	Th	H	T	O																				
2	3	4	0	5																				
	7	8	9	2																				
2	0	2	9	7																				
<p>Year 6</p>	<p>As above including adding decimals Ensuring numbers are aligned correctly for accuracy</p>	<p>Using place value counters to show $32421 + 24556$</p>	<p>As above including adding decimals</p> $\begin{array}{r} 0 \cdot 2\ 3 \\ + 0 \cdot 4\ 5 \\ \hline 0 \cdot 6\ 8 \end{array}$ <p>Ensuring numbers are aligned correctly for accuracy</p>	<p>addition column addition formal written method addend sum commutative exchange expanded notation partition inverse operation (to check response) decimals money (£ and p)</p>																				