

Calculation Policy: Addition

Key language: sum, total, parts and wholes, plus add, altogether, more, 'is equal to, 'is the same as.'

	Concrete	Pictorial	Abstract
<p>EYFS / Year 1 Combing two parts to make a whole: part whole model.</p>	<p>Combining two parts to make a whole (use other resources too e.g. eggs, shells, teddy bears, cars)</p>	<p>Children to represent the cubes using dots or crosses. They could put each part on a part whole model too.</p>	<p>$4 + 3 = 7$ Four is a part, 3 is a part and the whole is seven.</p>
<p>EYFS / Year 1 Starting at the bigger number and on using using cubes.</p>	<p>Counting on using number lines using cubes or Numicon.</p>	<p>A bar model which encourages the children to count on, rather than count all</p>	<p>The abstract number line: What is 2 more than 4? What is the sum of 2 and 4? What is the total of 4 and 2? $4 + 2$</p>
<p>EYFS / Year 1 Regrouping to make 10 using ten frame</p>	<p>Regrouping to make 10; using ten frames and counters/cubes or using Numicon.</p> <p>$6 + 5$</p>	<p>Children to draw the ten frame and counters/cubes.</p>	<p>Children to develop an understanding of equality e.g.</p> <p>$6 + \square = 11$ $6 + 5 = 5 + \square$ $6 + 5 = \square + 4$</p>
<p>Year 2 Adding three single digits.</p>	<p>$4 + 7 + 6 = 17$ Put 4 and 6 together to make 10. Add on 7.</p> <p>Following on from making 10, make 10 with 2 of the digits (if possible) then add on the third digit. Use Numicon to find number bonds to 10.</p>	<p>Draw a 10 frame / bar model to recombine the groups to make 10</p>	<p>Combine the two numbers that make 10 and then add the remainder.</p>

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<p>Year 2 Use of base 10 to combine two numbers.</p> <p>TO + O</p>	<p>Continue to develop understanding of partitioning and place value. 41 + 8</p>	<p>Children to represent the base 10 e.g. lines for tens and dot/crosses for ones.</p>	<p>41 + 8</p>
<p>Year 2 Column method - regrouping</p> <p>TO + TO</p>	<p>Continue to develop understanding of partitioning and place value. 36 + 25</p>	<p>Children to represent the base 10 in a place value chart.</p>	<p>Looking for ways to make 10.</p> <p>36 + 25 =</p>
<p>Year 3 Using place value counters (up to three digits).</p>	<p>Use of place value counters to add HTO + TO, HTO + HTO etc. When there are 10 ones in the 1s column- we exchange for 1 ten, when there are 10 tens in the 10s column- we exchange for 1 hundred.</p>	<p>Children to represent the counters in a place value chart, circling when they make an exchange.</p>	