


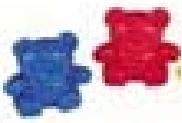
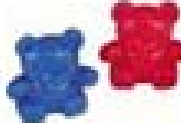

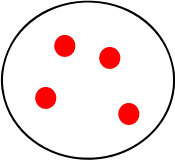
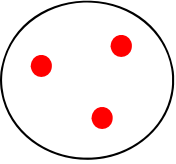
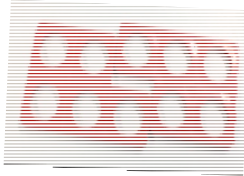
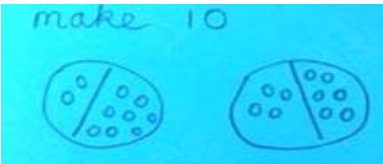
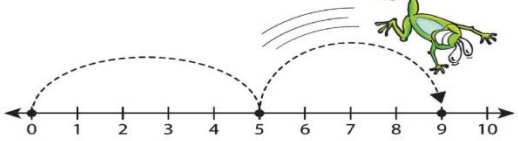
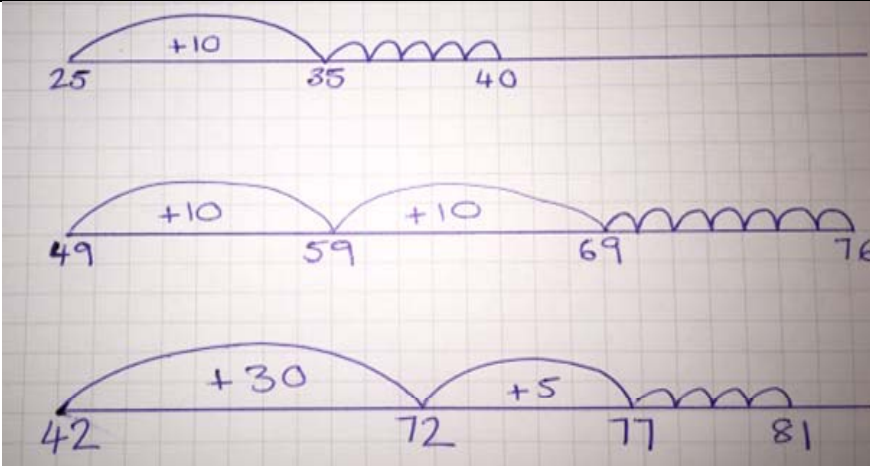


Calculation Strategies: Addition

Progression	Exemplification	Notes
<p><u>Step 1</u> Counting objects</p>	<p>There are 4 teddies</p>  <p>I have 4 teddies, if I add 3 more I will have 7 teddies.</p>   <p>Ensure children physically move the objects as they are counting. This will support</p>	<p>*Children need to develop confidence in counting objects or pictures; progression is by adding more objects and recounting.</p> <p>*Early addition is taught through number stories and rhymes. Use photographs and pictures to record evidence of learning at this stage.</p>
<p><u>Step 2</u> Introduction of the symbols of <i>add</i> and <i>equals</i>.</p>	 <p>+</p>  <p>= 6</p>  <p>4 + 3 = 3</p>  <p>4</p>  <p>+</p> <p>= 7</p>  <p>5 + 5 =</p> <p>make 10</p> 	<p>*Ensure children understand and are fluent in using the language of addition.</p> <p>*Children need lots of practical experience of making sets of amounts to form a number sentence.</p> <p>*Ensure children have a secure understanding of equality; include number sentences which have the equals sign on the left, i.e $\underline{\quad} = 6 + 5$</p>

<p><u>Step 3</u> Numbered lines</p>	<div data-bbox="421 90 936 316"> $5 + 4 = 9$  </div> <div data-bbox="943 116 1496 260"> <p>Start with children jumping in ones and then progress to a single</p> </div>	<p>*Children use numbered lines to count on.</p> <p>*Teach children to put the largest number first and then count on the smaller number.</p>
<p><u>Step 4</u> Empty number line and 100 squares</p>	<div data-bbox="421 419 526 734"> $25 + 15 =$ $49 + 27 =$ </div> <div data-bbox="633 384 1500 852">  </div>	<p>*Prior to adding two 2 digit numbers, children need to have secure place value. Start with calculations involving a 2 digit number added to a multiple of 10 (ie $32 + 20$) Children can solve these calculations by jumping up and back on 100 squares and adding in tens on a number line. Progress to calculations which include ones digits (ie $34 + 25$)</p> <p>*Demonstration and modelling of use of number lines is essential.</p>

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