


# Addition and Subtraction – National Curriculum 2014

Foundation Stage	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	<p>Read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs</p>	<p>Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot</p>				<p>Use their knowledge of the order of operations to carry out calculations involving the four operations</p>
<p>Say which number is one more or one less than a given number</p>	<p>Represent and use number bonds and related subtraction facts within 20</p>	<p>Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100</p>				
<p>Using quantities and objects, they add two single-digit numbers and count on to find the answer.</p> <p>Using quantities and objects, they subtract two single-digit numbers and count on or back to find the answer.</p>	<p>Add and subtract one-digit and two-digit numbers to 20, including zero</p>	<p>Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:</p> <ul style="list-style-type: none"> <li>a two-digit number and ones</li> <li>a two-digit number and tens</li> <li>two two-digit numbers</li> <li>adding three one-digit numbers</li> </ul>	<p>Add and subtract numbers mentally, including:</p> <ul style="list-style-type: none"> <li>a three-digit number and ones</li> <li>a three-digit number and tens</li> <li>a three-digit number and hundreds</li> </ul> <p>Two 2-digit numbers across 100 (non-statutory guidance)</p>		<p>Add and subtract numbers mentally with increasingly large numbers eg 5-digit – 4-digit multiple of 10</p>	<p>Perform mental calculations, including with mixed operations and large numbers</p>
<p>They solve problems</p>	<p>Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as <math>7 = \square - 9</math>.</p>	<p>Solve problems with addition and subtraction:</p> <ul style="list-style-type: none"> <li>using concrete objects and pictorial representations, including those involving numbers, quantities and measures</li> <li>applying their increasing knowledge of mental and written methods</li> </ul> <p>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.</p>	<p>Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction</p> <p>Estimate the answer to a calculation and use inverse operations to check answers</p> <p>Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</p>	<p>Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</p> <p>Estimate and use inverse operations to check answers to a calculation</p> <p>Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</p>	<p>Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)</p> <p>Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy</p> <p>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</p>	<p>Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.</p> <p>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</p> <p>Solve problems involving addition, subtraction, multiplication and division</p>

 Recall of facts

 Mental Calculation

 Written Calculation

 Rounding and estimating to calculate

 Solving problems