

# Number: Addition & Subtraction

NUMBER BONDS					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
represent and use number bonds and related subtraction facts within 20 <a href="#">Autumn 2</a> <a href="#">Spring 2</a>	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 <a href="#">Autumn 2</a>				
MENTAL CALCULATION					
add and subtract one-digit and two-digit numbers to 20, including zero <a href="#">Autumn 2</a> <a href="#">Spring 2</a>	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <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> <a href="#">Autumn 2</a>	add and subtract numbers mentally, including: <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> <a href="#">Autumn 2</a>		add and subtract numbers mentally with increasingly large numbers <a href="#">Autumn 2</a>	perform mental calculations, including with mixed operations and large numbers <a href="#">Autumn 2</a>
read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs (appears also in Written Methods) <a href="#">Autumn 2</a> <a href="#">Spring 2</a>	show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot <a href="#">Autumn 2</a>				use their knowledge of the order of operations to carry out calculations involving the four operations <a href="#">Autumn 2</a>

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WRITTEN METHODS					
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 (appears also in Mental Calculation) <i>Autumn 2</i> <i>Spring 2</i></p>		<p>add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction <i>Autumn 2</i></p>	<p>add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate <i>Autumn 2</i></p>	<p>add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) <i>Autumn 2</i></p>	
INVERSE OPERATIONS, ESTIMATING AND CHECKING ANSWERS					
	<p>recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. <i>Autumn 2</i></p>	<p>estimate the answer to a calculation and use inverse operations to check answers <i>Autumn 2</i> <i>Summer 5</i></p>	<p>estimate and use inverse operations to check answers to a calculation <i>Autumn 2</i></p>	<p>use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy <i>Autumn 2</i></p>	<p>use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy. <i>Autumn 2</i></p>

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PROBLEM SOLVING					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<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>Autumn 2 Spring 2</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>Autumn 2</p>	<p>solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction</p> <p>Autumn 2</p>	<p>solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why</p> <p>Autumn 2</p>	<p>solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</p> <p>Autumn 2</p>	<p>solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</p> <p>Autumn 2</p>
	<p><i>solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change</i> (copied from Measurement)</p>			<p>solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign</p> <p>Autumn 2</p>	<p>Solve problems involving addition, subtraction, multiplication and division</p>