



Progression of Skills: Addition and Subtraction

Nursery	Reception	Y1	Y2	Y3	Y4	Y5	Y6
<p>Addition and subtraction</p> <p>Pupils should be taught to:</p> <p>Compare two groups of objects, saying when they have the same number.</p> <p>Show an interest in number problems</p> <p>Separate a group of three or four objects in different ways, beginning to recognise that the total is still the same.</p>	<p>Addition and subtraction</p> <p>Pupils should be taught to:</p> <p>Use the language of 'more' and 'fewer' to compare two sets of objects.</p> <p>Find the total number of items in two groups by counting all of them.</p> <p>Say the number that is one more than a given number.</p> <p>Find one more or one less from a group of up to five objects, then ten objects.</p> <p>In practical activities and discussion, begin to use the vocabulary involved in adding and subtracting.</p> <p>Record, using marks that they can interpret and explain.</p> <p>Begin to identify own mathematical problems based on own interests and fascinations.</p> <p>ELG Children say which number is one more</p>	<p>Addition and subtraction</p> <p>Pupils should be taught to:</p> <p>Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs</p> <p>Represent and use number bonds and related subtraction facts within 20</p> <p>Add and subtract one-digit and two-digit numbers to 20, including zero</p> <p>Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$</p>	<p>Addition and subtraction</p> <p>Pupils should be taught to:</p> <p>Solve problems with addition and subtraction:</p> <ul style="list-style-type: none"> - using concrete objects and pictorial representations, including those involving numbers, quantities and measures - applying their increasing knowledge of mental and written methods <p>Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100</p> <p>Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:</p> <ul style="list-style-type: none"> - a two-digit number and ones - a two-digit number and tens - two two-digit numbers - adding three one-digit numbers <p>Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another</p>	<p>Addition and subtraction</p> <p>Pupils should be taught to:</p> <p>Add and subtract numbers mentally, including:</p> <ul style="list-style-type: none"> - a three-digit number and ones - a three-digit number and tens - a three-digit number and hundreds <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>Addition and subtraction</p> <p>Pupils should be taught to:</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>Addition and subtraction</p> <p>Pupils should be taught to:</p> <p>Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)</p> <p>Add and subtract numbers mentally with increasingly large numbers</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>Addition and subtraction</p> <p>Pupils should be taught to:</p> <p>Perform mental calculations, including with mixed operations and large numbers</p> <p>Use their knowledge of the order of operations to carry out calculations involving the four operations</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 and subtraction, use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy</p>

	<p>or one less than a given number.</p> <p>Using quantities and objects, they add and subtract two single-digit numbers and count on or back to find the answer.</p>		<p>cannot</p> <p>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems</p>				
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