

Number: Addition and Subtraction



NUMBER BONDS					
			Reception recognise a pair (numbers to 8) Autumn explore number bonds to 10 Spring		
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
represent and use number bonds and related subtraction facts to 10 and 20 and within 20	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100				

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RECALL, REPRESENT and USE					
Nursery use 'more' and 'a lot' Autumn know groups change when something is added/ taken away Autumn			Reception find one more and one less than numbers up to 5 Autumn		
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs	show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot				

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CALCULATIONS					
			<p>Reception combine two numbers together Spring understand that the quantity of a group can be changed by adding more and taking away Summer</p>		
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 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: * a two digit number and ones * a two-digit number and tens * two two-digit numbers * adding three one-digit numbers</p>	<p>add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction add and subtract numbers mentally, including: * a three-digit</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>add and subtract whole numbers with more than 4 digits, including using formal written methods add and subtract numbers mentally with increasingly large numbers</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>

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		<p>number and ones</p> <p>* a three-digit number and tens</p> <p>* a three-digit number and hundreds</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.</p>	<p>estimate the answer to a calculation and use inverse operations to check answers</p>	<p>estimate and use inverse operations to check answers to a calculation</p>	<p>use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy</p>	<p>use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy.</p>

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PROBLEM SOLVING					
			Reception		
			solve extended problems Summer investigate relationships between numbers Summer		
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 $7 = \blacksquare - \blacksquare$</p>	<p>solve problems with addition and subtraction: * using concrete objects and pictorial representations, including those involving numbers, quantities and measures * applying their increasing knowledge of mental and written methods</p>	<p>solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction</p>	<p>solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why</p>	<p>solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why</p>	<p>solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why</p>

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solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change

Solve problems involving addition, subtraction, multiplication and division