Number: Addition and Subtraction

	NUMBER BONDS					
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.	represent and use number bonds and related subtraction facts within 20	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100				
	MENTAL CALCULATION					
automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.	add and subtract one-digit and two-digit numbers to 20, including zero	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	add and subtract numbers mentally, including: * a three-digit number and ones * a three-digit number and tens * a three-digit number and hundreds		add and subtract numbers mentally with increasingly large numbers	perform mental calculations, including with mixed operations and large numbers
	read, write and interpret mathematical statements involving addition (+),	show that addition of two numbers can be done in any order (commutative) and subtraction of one				use their knowledge of the order of operations to carry out calculations involving the four operations

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	subtraction (-) and equals (=) signs (appears also in Written Methods)	number from another cannot				

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			WRITTEN METHODS			
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction	add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate	add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)	
			INVERSE OPERATIONS, ESTIMATING AND CHECKING ANSWERS			
		recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.	estimate the answer to a calculation and use inverse operations to check answers	estimate and use inverse operations to check answers to a calculation	use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy	use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy.

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	PROBLEM SOLVING					
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = □ - 9	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 *solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change* (copied from Measurement)	solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction	solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why	solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why Solve problems involving addition, subtraction, multiplication and division

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Language						
number bonds double how many add, more, plus, make, sum, total, altogether equal less	number sentence (+) add, plus (-) subtract, minus, left over (=) equals, is equal to, total, altogether, same as total part, part, whole whole, part, part one more than one less than number bonds making and breaking ten	expression equation (+) addition, sum (-) subtraction, difference, minus commutative inverse renaming word problem column addition column subtraction method	calculation expanded and short column addition/subtraction efficient method model			order of operations