Number: Addition and 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	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100							
Within 25	MENTAL CALCULATION							
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 tens		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 (+), subtraction (-) and equals (=) signs (appears also in Written Methods)	show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot				use their knowledge of the order of operations to carry out calculations involving the four operations			









Number: Addition and Subtraction



WRITTEN METHODS								
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs (appears also in Mental Calculation)		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							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
solve one-step problems	solve problems with	solve problems,	solve addition and	solve addition and	solve addition and		
that involve addition and	addition and subtraction:	including missing	subtraction two-step	subtraction multi-step	subtraction multi-step		
subtraction, using	using concrete objects	number problems, using	problems in contexts,	problems in contexts,	problems in contexts,		
concrete objects and	and pictorial	number facts, place	deciding which	deciding which operations	deciding which operations		
pictorial representations,	representations,	value, and more	operations and methods	and methods to use and	and methods to use and		
and missing number	including those	complex addition and	to use and why	why	why		
problems such as	involving numbers,	subtraction					
7 = □ - 9	quantities and						
	measures						
	* applying their						
	increasing knowledge						
	of mental and written						
	methods	_					
	solve simple problems in a				Solve problems involving		
	practical context involving				addition, subtraction,		
	addition and subtraction of money of the same unit,				multiplication and division		
	including giving change						
	(copied from Measurement)						
	,						







