Hauxton Primary Progression in 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	MENTAL	CALCULATION				
add and subtract one-	add and subtract numbers	add and subtract	CALCOLATION	add and subtract numbers	perform mental		
digit and two-digit numbers to 20, including zero	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	numbers mentally, including: * a three-digit number and ones * a three-digit number and tens * a three-digit number and tens		mentally with increasingly large numbers	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		









WRITTEN METHODS							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
read, write and interpret		add and subtract	add and subtract	add and subtract whole			
mathematical statements		numbers with up to	numbers with up to 4	numbers with more than 4			
involving addition (+),		three digits, using	digits using the formal	digits, including using			
subtraction (-) and equals		formal written methods	written methods of	formal written methods			
(=) signs		of columnar addition	columnar addition and	(columnar addition and			
(appears also in Mental		and subtraction	subtraction where	subtraction)			
Calculation)			appropriate				
	INV	/ERSE OPERATIONS, ESTIM	ATING AND CHECKING ANS	WERS			
	recognise and use the	estimate the answer to	estimate and use inverse	use rounding to check	use estimation to check		
	inverse relationship	a calculation and use	operations to check	answers to calculations and	answers to calculations and		
	between addition and	inverse operations to	answers to a calculation	determine, in the context	determine, in the context		
	subtraction and use this to	check answers		of a problem, levels of	of a problem, levels of		
	check calculations and			accuracy	accuracy.		
	solve missing number						
	problems.						
			M 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 involving	complex addition and	to use and why	why	why		
problems such as	numbers, quantities and	subtraction			Solve problems involving		
7 = □ - 9	measures				addition, subtraction,		
	* applying their increasing				multiplication and division		
	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)		