

Green-Birth to Five

	NUMBER BONDS							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
	Explore the composition	represent and use number	recall and use addition					
	of numbers to 10	bonds and related	and subtraction facts to					
		subtraction facts within 20	20 fluently, and derive					
			and use related facts up					
			to 100					
	Automatically recall							
	number bonds for							
	numbers 0-5 and some							
	to 10							
	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.							
	(ELG)							
	Explore and represent							
	patterns within							
	numbers up to 10,							
	including evens and							
	odds, double facts and							
	how quantities can be							
	distributed equally							
	(ELG)							
		ME	NTAL CALCULATION					



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Solve real world mathematical problems with numbers up to 5 Through play and exploration, beginning to learn that numbers are made up (composed) of smaller numbers	Shows awareness that numbers are made up (composed) of smaller numbers, exploring partitioning in different ways In practical activities adds one and subtracts one within numbers to 10	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 threedigit number and ones * a threedigit number and tens * a threedigit number and tens	add and subtract numbers mentally with increasingly large numbers	perform mental calculations, including with mixed operations and large numbers
Beginning to use understanding of number to solve practical problems in play and meaningful activities	Begins to conceptually subitise larger numbers by subitising smaller groups within the number, e.g. sees six raisins on a plate as three and three					
Separates a group of three or four objects in different ways, beginning to	Begins to explore and work out mathematical problems, using signs and strategies of their	read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals	show that addition of two numbers can be done in any order (commutative) and			use their knowledge of the order of operations to



recognize	e that the	own choice, including	(=) signs	subtraction of one		carry out
total is st	ill the	(when appropriate)	(appears also in Written	number from another		calculations
same		standard numerals,	Methods)	cannot		involving the
		tallies and '+' or '-'				four operations



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	WRITTEN METHODS							
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
	Begins to explore and work out mathematical problems, using signs and strategies of their own choice, including (when appropriate) standard numerals, tallies and '+' or '-'	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)		
	IN	 VERSE OPERATIONS, ESTIMATI	NG AND CHECKIN	IG ANSWERS				
		VERSE OF ERATIONS, ESTIMATE	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.	



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)							
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