

COMPOSITION/ NUMBER BONDS								
Pre FS1	FS1	FS2	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		Have a deep	represent and use	recall and use	Know that 10	Know that 10	Know that 10	Understand the
		understanding	number bonds and	addition and	tens are	hundreds are	tenths are	relationship
		of numbers to	related subtraction	subtraction facts to	equivalent to 1	equivalent to 1	equivalent to 1	between powers of
		10- explore	facts within 20	20 fluently, and	hundred, and	thousand, and	one, and that 1 is	10 from 1
		the		derive and use	that 100 is 10	that 1,000 is	10 times the size of	hundredth to 10
		composition	Compose numbers	related facts up to	times the size of	10 times the	0.1. Know that 100	million, and use
		of numbers to	to 10 from 2 parts,	100	10; apply this to	size of 100;	hundredths are	this to make a
		10	and partition		identify and	apply this to	equivalent to 1	given number 10,
			numbers to 10 into		work out how	identify and	one, and that 1 is	100, 1,000, 1 tenth,
		automatically	parts, including		many 10s there	work out how	100 times the size	1 hundredth or 1
		recall number	recognising odd		are in other	many 100s	of 0.01. Know that	thousandth times
		bonds up to 5	and even numbers.		three-digit	there are in	10 hundredths are	the size (multiply
		(including			multiples of 10	other four-	equivalent to 1	and divide by 10,
		subtraction				digit multiples	tenth, and that 0.1	100 and 1,000)
		facts)			calculate	of 100	is 10 times the size	
					complements to		of 0.01	
		recall some			100			
		number						
		bonds to 10,						
		including		recognise the place	compose and	compose and	compose and	compose and
		doubling facts		value of each digit in	decompose	decompose	decompose	decompose
				two-digit numbers,	three-digit	four-digit	numbers with up	numbers up to 10
		explore and		and compose and	numbers using	numbers using	to 2 decimal places	million using
		represent		decompose two-digit	standard and	standard and	using standard and	standard and non-
		patterns		numbers using	non-standard	non-standard	non-standard	standard
		within		standard and	partitioning	partitioning	partitioning	partitioning
		numbers up		nonstandard				
		to 10		partitioning				
				MENTAL CALCULA	ATION			
react to			add and subtract	add and subtract	add and subtract		add and subtract	perform mental















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		interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs (appears also in Written Methods)	two numbers can be done in any order (commutative) and subtraction of one number from another cannot				knowledge of the order of operations to carry out calculations involving the four operations
				Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10).	Apply place- value knowledge to known additive and multiplicative number facts (scaling facts by 100)	Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 1 tenth or 1 hundredth).	
Combine objects like stacking blocks and cups. Put objects inside others and take them out again.							





WRITTEN METHODS									
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
read, write and interpret	add and subtract any 2	add and subtract	add and subtract	add and subtract whole					
mathematical statements	two-digit numbers	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						
	INN	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	Manipulate the additive							
	problems.	Inderstand the inverse							
		rolationship botwoon							
		addition and							
		subtraction and how							
		both relate to the part-							
		nart–whole structure							
		Understand and use the							
		commutative property							
		of addition, and							
		understand the related							
		property for							





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PROBLEM SOLVING								
Pre FS1	FS1	FS2	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	solve real		solve one-step	solve problems with	solve problems,	solve addition	solve addition and	solve addition and
	world		problems that	addition and	including missing	and subtraction	subtraction multi-	subtraction multi-
	mathematical		involve addition and	subtraction:	number	two-step	step problems in	step problems in
	problems		subtraction, using	* using concrete	problems, using	problems in	contexts, deciding	contexts, deciding
	with		concrete objects	objects and	number facts,	contexts,	which operations	which operations
	numbers up		and pictorial	pictorial	place value, and	deciding which	and methods to	and methods to use
	to 5		representations,	representations,	more complex	operations and	use and why	and why
			and missing number	including those	addition and	methods to use		
			problems such as	involving	subtraction	and why		Solve problems
			7 = 🗆 - 9	numbers,				involving ratio
				quantities and				relationships.
			relate additive	measures				
			expressions and	* applying their				Solve problems
			equations to real-	increasing				with 2 unknowns.
			life contexts.	knowledge of				
				mental and				
				written methods				
				Recognise the				
				subtraction structure				
				of 'difference' and				
				answer questions of				
				the form, "How				
				many more?".				











solve simple p in a practical o involving addi subtraction of the same unit, including givin (copied from	oroblems context ition and f money of ; ng change	Solve problems involving addition, subtraction, multiplication and division
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