

	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	ATION!			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	 			MENTAL CALCULA		 	add and subtract	noufous soutal
react to			add and subtract	add and subtract	add and subtract		add and subtract	perform mental











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changes of	one-digit and two-	numbers using	numbers	numbers mentally	calculations,
amount in a	digit numbers to	concrete objects,	mentally,	with increasingly	including with
group of up	20, including zero	pictorial	including:	large numbers	mixed operations
to three		representations, and	* a three-digit		and large numbers
items		mentally, including:	number and		
		* a two-digit	ones		Use a given
		number and ones	* a three-digit		additive or
		* a two-digit	number and		multiplicative
		number and tens	tens		calculation to
		* two two-digit	* a three-digit		derive or complete
		numbers	number and		a related
		* adding three one-	hundreds		calculation, using
		digit numbers			arithmetic
					properties, inverse
	develop fluency in	secure fluency in	secure fluency in		relationships, and
	addition and	addition and	addition and		place-value
	subtraction facts	subtraction facts	subtraction facts		understanding.
	within 10	within 10, through	that bridge 10,		
		continued practice	through		
		·	continued		
		Add and subtract	practice		
		within 100 by			
		applying related one-			
		digit addition and			
		subtraction facts: add			
		and subtract only			
		ones or only tens			
		to/from a two-digit			
		number.			
	read, write and	show that addition of			use their











		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.							











		WRITTEI	N 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 any 2 two-digit numbers	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)	
	INV	/ERSE OPERATIONS, ESTIM	ATING AND CHECKING ANS	WERS	
	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  Manipulate the additive relationship: Understand the inverse relationship between addition and subtraction, and how both relate to the part—part—whole structure. Understand and use the commutative property of addition, and understand the related property for	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.









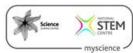


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I		subtraction.		
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	PROBLEM SOLVING								
Pre FS1	FS1	FS2	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
PIE F31	solve real world mathematical problems with numbers up to 5	F3Z	solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = □ - 9  relate additive expressions and equations to real-life contexts.	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  Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more?".	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 multistep problems in contexts, deciding which operations and methods to use and why	solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why  Solve problems involving ratio relationships.  Solve problems with 2 unknowns.	











solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change	Solve problems involving addition, subtraction, multiplication and division
including giving change (copied from Measurement)	







