NUMBER BONDS							
Foundation Stage 1	Foundation Stage 2	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	V	1AS-1 Compose numbers to 10 from 2 parts, and partition numbers to 10 into parts, including recognising odd and even numbers	2AS-1 Add and subtract across 10	3AS-1 Calculate complements to 100			6AS-1 Understand that 2 numbers can be related additively or multiplicatively, and quantify additive and multiplicative relationships
		Represent and use number bonds and related subtraction facts within 20 Composition of numbers up to 10 (Number bonds) Composition of numbers beyond 10 (11-19) as 10 and a bit. Identify the doubles within 10.	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 To identify the different ways that 10 can be composed. Apply knowledge of facts within 10 to addition and subtraction within 20 WITHIN the 10s boundary				
MENTAL CALCULATIONS 2AS-4 Add and 6AS/MD-4 So							6AS/MD-4 Solve
			subtract within 100 by applying related one-digit addition and				problems with 2 unknowns

			aubtraction facts			
			subtraction facts: add and subtract			
			any 2 two- digit			
			number			
Find the total	Add and subtract	Add and subtract	Add and subtract	Add and subtract	Add and subtract	Perform mental
number of items	2 single digit	one-digit and	numbers using	numbers	numbers	calculations,
in two groups by	numbers by	two-digit	concrete objects,	mentally,	mentally with	including with
counting all of	counting on	numbers to 20,	pictorial	including:	increasingly	mixed operations
them		including zero	representations,	* a three-digit	large numbers	and large
		molading 2010	and mentally,	number and	iai go mamboro	numbers
		Read, write and	including:	ones		Trainib 51 5
		interpret	* a two-digit	* a three-digit		Use their
		mathematical	number and	number and		knowledge of the
		statements	ones	tens		order of
		involving addition	* a two-digit	* a three-digit		operations to
		(+), subtraction (-	number and	number and		carry out
) and equals (=)	tens	hundreds		calculations
		signs	* two two-digit			involving the four
		(appears also in	numbers			operations
		Written Methods)	* adding three			
		A moly transition data	one-digit			
		Apply knowledge of composition	numbers			
		when adding or	Add 3 numbers			
		subtracting	using known			
		Subtracting	facts - identifying			
			bonds of 10 and			
			knowledge of			
			the composition			
			of 11 to 19 as			
			'10 and a bit'			
			Subtract by			
			bridging through			
			ten.			
			- · · · · ·			
			The composition			
			of twenty using			
			known facts-			
			include missing			
			numbers.			

		METHODS			
1AS- 2 Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs	2AS–2 Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more?".	3AS–2 Add and subtract up to three-digit numbers using columnar methods.			6AS, MD-2 Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding.
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 OPE	RATIONS, ESTIMA	TING AND CHECKI	NG ANSWERS		
	2AS–3 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract	3AS–3 Manipulate the additive relationship: Understand the inverse relationship			

		only ones or only tens to/from a twodigit number.	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 subtraction.					
		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								
	Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial	Solve problems with addition and subtraction: * using concrete objects and pictorial	Solve problems, including missing number problems, using number facts, place value, and more complex	Solve addition and subtraction two-step problems in contexts, deciding which operations and	Solve addition and subtraction multi-step problems in contexts, deciding which operations and	Solve addition and subtraction multi-step problems in contexts, deciding which operations and		

	representations, and missing number problems such as 7 = □ - 9	representatio ns, including those involving numbers, quantities and measures * applying their increasing knowledge of mental and written methods	addition and subtraction	methods to use and why	methods to use and why	methods to use and why Solve problems involving addition, subtraction, multiplication and division
--	--	--	--------------------------	------------------------	------------------------	---