			356 + 70 350 + 70 + 6 = 420 356 + 600 300 + 600 + 56 = 956		
r iii r s a s e ((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	Using jottings: Partitioning Subtracting ones and tens from a 3 digit number 567 - 60 = 507 745 - 700 = 45 832 - 2 = 830 364 - 8 364 - 4 - 4 = 356 356 - 70 356 - 50 - 20 = 286 956 - 600 956 - 600 956 - 600 = 356 By counting back in tens and ones 91 - 35 91 - 30 - 1 - 4 Special cases 93 - 39 as 93 - 40 + 1 Difference 103 - 16 = 87 When numbers are close together, count on from the smallest number through the		use their knowledge of the order of operations to carry out calculations involving the four operations

Addition and Subtraction

			multiple of ten or count back from the largest to the smallest through the multiple of ten.		
			NUMBE	R BONDS	
explore the composition of numbers to 10 automatically recall number bonds for numbers 0-5 and some to 10 (including subtraction and double facts)	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			

	WRITTEN METHODS					
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Children will make	read, write and		add and subtract two	add and subtract	add and subtract whole	
visual and practical	interpret		digit by two digit	numbers with up to 4	numbers with more	
displays with	mathematical		numbers bridging	digits using the	than 4 digits, including	
objects and	statements involving		tens. Add and subtract	formal written	using formal written	
pictures	addition (+),		numbers with up to	methods of columnar	methods (columnar	
	subtraction (-) and		three digits, using	addition and	addition and	
Hands on	equals (=) signs		written methods of	decomposition	decomposition)	
experiences of	(appears also in Mental		columnar addition and	where appropriate		
partitioning and	Calculation)		subtraction. Do not			
combining			use formal columnar			
			method except with			

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numbers in different contexts Link number symbol to its cardinal value		children who can demonstrate they are ready. (See models and images part of policy for guidance of process using manipulatives.) See SLT first.			
	INVER	RSE OPERATIONS, ESTIMA	TING AND CHECKING AI	NSWERS	
Automatically	recognise and use the	estimate the answer	estimate and use	use rounding to check	use estimation to check
recall number	inverse relationship	to a calculation and	inverse operations to	answers to calculations	answers to calculations
bonds for numbers	between addition and	use inverse operations	check answers to a	and determine, in the	and determine, in the
0-5 including	subtraction and use	to check answers	calculation	context of a problem,	context of a problem,
subtraction facts.	this to check			levels of accuracy	levels of accuracy.
	calculations and solve				
Children will count	missing number				
to check answers	problems.				
(unless the answer					
has been subitised					
correctly without					
the need to count)					
Children will make					
predictions about					
the possible					
outcomes of word					
problems and					
number stories					

	PROBLEM SOLVING					
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
explore the composition of numbers to 10 practically Children will regularly be given opportunities to develop characteristics of effective learning through playing and exploring, having a go, making links, having their own ideas and developing these through everyday problem solving	solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = -9	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	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 multi-step problems in contexts, deciding which operations and methods to use and why	solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
		solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change (copied from Measurement)				Solve problems involving addition, subtraction, multiplication and division

Addition



	Start with the larger number on the bead string and then count on to the smaller number 1 by 1 to find the answer.	Start at the larger number on the number line and count on in ones or in one jump to find the answer.	smaller number to find your answer.
Regrouping to make 10.	6 + 5 = 11 Start with the bigger number and use the smaller number to make 10.	Use pictures or a number line. Regroup or partition the smaller number to make 10. 9 + 5 = 14 $1 4$ $4 + 1$	7 + 4= 11 If I am at seven, how many more do I need to make 10. How many more do I add on now?
Adding three single digits	 4 + 7 + 6= 17 Put 4 and 6 together to make 10. Add on 7. Following on from making 10, make 10 with 2 of the digits (if possible) then add on the third digit. 	Add together three groups of objects. Draw a picture to recombine the groups to make 10.	4 + 7 + 6 = 10 + 7 $= 17$ Combine the two numbers that make 10 and then add on the remainder.
Column method- no regrouping	24 + 15= Add together the ones first then add the tens. Use the Base 10 blocks first before moving onto place value counters. T	After practically using the base 10 blocks and place value counters, children can draw the counters to help them to solve additions.	<u>Calculations</u> 21 + 42 = 21

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Subtraction

Objective and Strategies	Concrete	Pictorial	Abstract
Taking away ones	Use physical objects, counters, cubes etc to show how objects can be taken away.	Cross out drawn objects to show what has been taken away.	18 -3= 15
	6-2=4	$ \begin{array}{c} & & & & & & \\ & & & & & & \\ & & & & & $	8 – 2 = 6
Counting back	Make the larger number in your subtraction. Move the beads along your bead string as you count backwards in ones. 13 – 4	Count back on a number line or number track 9 10 11 12 13 14 15 Start at the bigger number and count back the smaller number showing the jumps on the number line.	Put 13 in your head, count back 4. What number are you at? Use your fingers to help.
	Use counters and move them away from the group as you take them away counting backwards as you go.	-10 -10 -10 -10 -10 -10 -10 -10	





Addition and Subtraction



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