

Statements taken from the National Curriculum 2014

Sosgate primary school

Additional statements to support progression in learning.

			EYFS - CAL	.CULATING			
Understand the concept of addition by practically combining sets of objects to find how many and use the terminology part – part – whole	Understand the concept of subtraction by practically removing one amount from within another to find how many are left and use the terminology part – part – whole		Relate subtraction to addition in practical situations using the terminology part – part – whole		Identify one more and one less than a given number		Identify two more and two less than a given number
Add two single-digit numbers totalling up to 10, using practical equipment	Add two single-digit number using practica	al equipment	Subtract a single-digit number from a number up to 10, using practical equipment		Subtract a single-digit number from a number greater than 10, using practical equipment		Automatically recall addition and subtraction facts up to 5 and some addition and subtraction facts to 10
Year 1	Year 2	Year 3		Year 4		Year 5	Year 6
				R BONDS			
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	perive and use addition and subtraction facts for multiples of 100, totalling 1000.		facts for 100. On Recall and use addition and subtraction		Recall and use addition and subtraction facts for 1 and 10 (with decimal numbers to one decimal place)	facts for 1 (with decimal numbers to two decimal places)
	Recall and use number bonds for multiples of 5 totaling 60 (to support telling the time to the nearest 5 minutes)					Derive and use addition and subtraction facts for 1 (with decimal numbers to two decimal places)	
				Derive and use addition and subtraction facts for 1 and 10 (with decimal numbers to one decimal place)			
			MENTAL CA	ALCULATION			
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 three-digit number and ones * a three-digit number and tens * a three-digit number and hundreds		Select a mental strategy appropriate for the numbers involved in the calculation.		add and subtract numbers mentally with increasingly large numbers	perform mental calculations, including with mixed operations and large numbers
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 Select a mental strategy appropriate for the numbers involved in the calculation.	Select a mental strategy appropriate for the numbers involved in the calculation.		Add and subtract mentally combinations of two and three digit numbers and decimals to one decimal place.		Select a mental strategy appropriate for the numbers involved in the calculation	
			WRITTEN	METHODS			
read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs (appears also in Mental Calculation)		add and subtract numbers three digits, using formal w methods of columnar addit subtraction	with up to vritten	add and subtract numbers wi 4 digits using the formal writt methods of columnar additio subtraction where appropriat	ten n and	add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)	add and subtract whole numbers and decimals using formal written methods (columnar addition and subtraction)
		INVERSE OPERATIO	NS, ESTIMA	TING AND CHECKING ANSWERS			
	recognise and use the inverse relationship between addition and subtraction and use this to check calculations and	estimate the answer to a ca and use inverse operations answers		estimate and use inverse ope to check answers to a calcula		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.

	solve missing number problems.						
	Understand subtraction as	Understand and use take away and					
	take away and difference	difference for subtraction, deciding on					
	(how many more, how many	the most efficient method for the					
	less/fewer)	numbers involved, irrespective of			,		
	iess/jewer/	context.					
	PROBLEM SOLVING						
solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \Box - 9$	solve problems with addition and subtraction: * using concrete objects and pictorial representations, including those involving numbers, quantities and measures * applying their	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		
	increasing knowledge of mental and written methods Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally or use a	Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method)	Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method)	Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method)	Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method)		
	solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change (copied from Measurement)		Solve addition and subtraction problems involving missing numbers.	Solve addition and subtraction problems involving missing numbers.	Solve problems involving addition, subtraction, multiplication and division including those with missing numbers.		
			bulary				
add, more, plus, make, sum, total, altogether, put together, score, double, near double, one more, two more ten more, how many more to make? How many more is than?, -, subtract, take (away), minus, leave, how many are left/left over?, how many have gone?, one less, two less ten less, how many fewer is than? How much less is?, difference between, distance between, half, halve, =, equals, sign, is the same as	add, addition, more, plus, make, sum, total, altogether, -, subtract, subtraction, take (away), minus, leave, how many left (over)?, difference, inverse, units, ones, tens, hundreds, place, place value, partition, exchange, represents, equal, equal to, makes, is the same as	place value, units/ones, tens, hundreds, exchange, add, plus, sum, total, altogether, estimate, round, inverse, subtract, take (away), minus, how many more/fewer, difference between, efficient, number, base 10, grouping, more (than), less (than), fewer, greater, most, least, compare, order, units, ones, tens, hundreds, thousands, exchange, digit, place, place value, represents, partition, equal to, estimate, guess, roughly, about the same as, round, exact(ly), multiple of, sequence, continue, predict, rule, add, plus, sum, total, altogether, subtract, take (away), minus, how many more/fewer, difference between	units, ones, tens, hundreds, thousands, one-, two-, three- or four-digit number, numeral, place value, represents, exchange, add, addition, more, plus, increase, sum, total, altogether, subtract, subtraction, take (away), minus, decrease, leave, how many are left/left over? difference between, equals, sign, is the same as, tens boundary, hundreds boundary, inverse	add, addition, more, plus, increase, sum, total, altogether, score, double, near double, how many more to make?, subtract, subtraction, take (away), minus, decrease, leave, how many are left/left over?, difference between, half, halve, how many more/fewer is than?, how much more/less is?, equals, sign, is the same as, tens boundary, hundreds boundary, units boundary, tenths boundary, inverse	add, addition, plus, sum, altogether, how many more to make? subtract, subtraction, minus, take away, difference between, how many more/less than?, inverse, brackets, subtract, subtraction, take away, minus, decrease, how many more? how many fewer? difference, inverse, calculation, problem, mental, strategy, jotting, method, operation, sign, how did you work it out? multi-step, equation, accuracy, powers, indices		