

Progression in Number: Addition and Subtraction



Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
		Vocabulary								
add takeaway equals	numbers add takeaway number bond equals	put together, add, altogether, double, total, more than, equals, plus, make Subtract, takeaway, distance between, difference between, less than, minus, leave, fewer, left over, equals,	commutative, inverse, sum, partition, near double tens boundary, partition, rearrange, inverse	score hundreds boundary, exchange, carried digits	increase decrease	units boundary tenths boundary				
		Number Bonds								
Solve real world mathematical problems with numbers up to 5. Putting snack items on the tables. Teacher asking questions- e.g. have we got enough pencils, chairs?	Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10	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	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							
		Mental Calculation								
Solve real world mathematical problems with numbers up to 5.	Have a deep understanding of number to 10, including the composition of each number. Recall the composition of numbers 1 - 10 in different ways	Add and subtract one digit and two-digit numbers to 20, including zero Read, write and interpret mathematical statements involving addition (+), subtraction (-) and	Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: * a two-digit number and ones * a two-digit number and tens	Add and subtract numbers mentally, including: * a three-digit number and ones * a three-digit number and tens * a three-digit number and hundreds		Add and subtract numbers mentally with increasingly large numbers	Perform mental calculations, including with mixed operations and large numbers Use their knowledge of the order of operations to carry out calculations involving the four operations			

	Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts. Instantly recall number bonds to 5 including some subtraction facts. Instantly recall some number bonds to 10 Recall double numbers to 10.	equals(=) signs (appears also in Written Methods)	* two two-digit numbers * adding three one- digit numbers Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot						
Experiment with their own symbols and marks		Read, write and interpret mathematical		Add and subtract numbers with up to	en Methods Add and subtract numbers with up to 4	Add and subtract whole numbers with			
as well as numerals. Number hunts		statements involving addition (+), subtraction (-) and		three digits, using formal written methods of	digits using the formal written methods of columnar	more than 4 digits, including using formal written methods			
Recording problems Recording scores in a game		equals (=) signs (appears also in Mental Calculation)		columnar addition and subtraction	addition and subtraction where appropriate	(columnar addition and subtraction)			
		Inverse operations, estimating and estimating answers							
			Recognise and use the	Estimate the	Estimate and use	Use rounding to check	Use estimation to		
			inverse relationship between addition and subtraction and use this to check calculations and solve missing number	answer to a calculation and use inverse operations to check answers	inverse operations to check answers to a calculation	answers to calculations and determine, in the context of a problem, levels of accuracy	check answers to calculations and determine, in the context of a problem, levels of accuracy.		