



Addition



Written Methods	Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs	Add and subtract two two-digit numbers using concrete objects, pictorial representations progressing to formal written methods $\begin{array}{r} 46 \\ + 27 \\ \hline 73 \end{array}$	Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction $\begin{array}{r} 423 \\ + 88 \\ \hline 511 \end{array}$	Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition where appropriate $\begin{array}{r} 2458 \\ + 596 \\ \hline 3054 \end{array}$	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) $\begin{array}{r} 23454 \\ + 596 \\ \hline 24050 \end{array}$	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
Developing conceptual understanding	Number bonds: (Ten frame) Numicon Use bonds of 10 to calculate bonds of 20 Count all Count on Count on, on number track, in 1s 	Number track / Number line – jumps of 1 then efficient jumps using number bonds $18 + 5 = 23$ $46 + 27 = 73$ Count in tens then bridge. $25 + 29$ by +30 then +1 (Round and adjust!) Partition and recombine $46 + 27 = 60 + 13 = 73$ $24 + 10$ $+ 10$ $+ 10 = 54$ 	Number line: $264 + 158$ efficient jumps $40 + 80 = 120$ using $4 + 8 = 12$ So $400 + 800 = 1200$ $243 + 158$ by +200 then +2 (Round and adjust) Pairs that make 100 $23 + 77$ Place value counters, 100s, 10s, 1s $264 + 158$ $= 422$ (Also with £, 10p and 1p)			
With jottings ... or in your head	Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 + \square = 9$	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	Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why	Add and subtract numbers mentally with increasingly large numbers	Perform mental calculations, including with mixed operations and large numbers
Just know it!	Represent & use number bonds and related subtraction facts within 20 Add and subtract one-digit and two-digit numbers to 20, including zero	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100				
Year	1	2	3	4	5	6
Foundations	1 more Number bonds: 5, 6 Largest number first Number bonds: 7, 8 Add 10 Number bonds: 9, 10 Ten plus ones Doubles up to 10 Use number bonds of 10 to derive bonds of 11	10 more Number bonds: 20, 12, 13 Number bonds: 14, 15 Add 1 digit to 2 digit by bridging Partition second number, add tens then ones Add 10 and multiples Number bonds: 16 and 17 Doubles up to 20 and multiples of 5 Add near multiples of 10 Number bonds: 18, 19 Partition and recombine	Add multiples of 10, 100 Add single digit bridging through boundaries Partition second number to add Pairs of 100 Use near doubles to add Add near multiples of 10 and 100 by rounding and adjusting Partition and recombine	Add multiples of 10s, 100s, 1000s Fluency of 2 digit + 2 digit Partition second number to add Decimal pairs of 10 and 1 Use near doubles to add Adjust both numbers before adding Add near multiples Partition and recombine	Add multiples of 10s, 100s, 1000s, tenths Fluency of 2 digit + 2 digit including with decimals Partition second number to add Use number facts, bridging and place value Adjust numbers to add Partition and recombine	Add multiples of 10s, 100s, 1000s, tenths, hundredths Fluency of 2 digit + 2 digit including with decimals Partition second number to add Use number facts, bridging and place value Adjust numbers to add Partition and recombine