



Addition and Subtraction: Objective Progression Document

	Autumn Term	Spring Term	Summer Term
Year 1	<ul style="list-style-type: none"> • read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs • represent and use number bonds and related subtraction facts within 20 	<ul style="list-style-type: none"> • read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs • add and subtract one-digit and two-digit numbers to 20, including zero • solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$ 	<ul style="list-style-type: none"> • read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs • represent and use number bonds and related subtraction facts within 20 • add and subtract one-digit and two-digit numbers to 20, including zero • solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$
Mental Maths	<ul style="list-style-type: none"> • Recall addition and subtraction facts up to 5 • Recall pair of numbers with a total up to 10 • Count in ones from and back to from any small number • Count reliably up to 20 everyday objects 	<ul style="list-style-type: none"> • Count on or back in tens from and back to zero • Recall addition and subtraction facts to at least 5 	<ul style="list-style-type: none"> • Count reliably at least 20 objects • Read and write numerals from 0 to at least 20 • Recall addition and subtraction facts up to at least 5 (and up to 10) • Read and write numerals from 0 to at least 20
Year 2	<ul style="list-style-type: none"> • add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <ul style="list-style-type: none"> ○ a two-digit number and ones ○ a two-digit number and tens • solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures • recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 	<ul style="list-style-type: none"> • Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. • add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <ul style="list-style-type: none"> ○ two two-digit numbers ○ adding three one-digit numbers • solve problems with addition using concrete objects and pictorial representations, including those involving numbers, quantities and measures 	<ul style="list-style-type: none"> • applying their increasing knowledge of mental and written methods • show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot • consolidation of above objectives as required
Mental Maths	<ul style="list-style-type: none"> • Recall addition and subtraction facts for each number to at least 10 • Recall doubles of all numbers to 10 	<ul style="list-style-type: none"> • Partition a two digit number into tens and ones • Say the number that is 10 more/less than any two-digit number • Recognise odd and even numbers • Recall addition and subtraction facts for each number up to 10 	<ul style="list-style-type: none"> • Recall pairs of multiples of 10 that make 100 • Recall addition and subtraction facts for each number up to at least 10

Year 3	<ul style="list-style-type: none"> To add and subtract numbers mentally, including: a three-digit number and ones To solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. To estimate the answer to a calculation and use inverse operations to check answers. 	<ul style="list-style-type: none"> To add and subtract numbers mentally, including: <ul style="list-style-type: none"> a three-digit number and ones a three-digit number and tens To add and subtract numbers with up to three digits, using the efficient written methods of columnar addition and subtraction. To solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. To estimate the answer to a calculation and use inverse operations to check answers. 	<ul style="list-style-type: none"> To add and subtract numbers mentally, including: <ul style="list-style-type: none"> a three-digit number and ones a three-digit number and tens a three-digit number and hundreds. To add and subtract numbers with up to three digits, using the efficient written methods of columnar addition and subtraction. To solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. To estimate the answer to a calculation and use inverse operations to check answers.
Mental Maths	<ul style="list-style-type: none"> Recall addition, subtraction facts for each number up to at least 10. Add/subtract 1 to any whole number. Recall pairs of multiples of 5 with a total of 100 	<ul style="list-style-type: none"> Recall pairs of multiples of 100 that make 1000. Recall pairs that make 20. Add/subtract 1, 10 to any whole number. Add/ subtract 9, 19, 29... and 11, 21, 31... 	<ul style="list-style-type: none"> Round any three-digit number to the nearest 100. State subtraction fact corresponding to addition fact and vice versa. Recall addition and subtraction facts for each number up to 20. Add/subtract 1, 10, 100 to any whole number. Add/ subtract 9, 19, 29... and 11, 21, 31...
Year 4	<ul style="list-style-type: none"> To add and subtract numbers with up to four digits using the efficient written methods of columnar addition and subtraction where appropriate. To estimate and use inverse operations to check answers to a calculation. To solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. 	<ul style="list-style-type: none"> To add and subtract numbers with up to four digits using the efficient written methods of columnar addition and subtraction where appropriate. To estimate and use inverse operations to check answers to a calculation. To solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. 	<ul style="list-style-type: none"> To add and subtract numbers with up to four digits using the efficient written methods of columnar addition and subtraction where appropriate. To estimate and use inverse operations to check answers to a calculation. To solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.
Mental Maths	<ul style="list-style-type: none"> Recall addition and subtraction facts for each number up to 20. Write subtraction fact corresponding to given addition fact. Add/subtract 1 to any whole number. Derive addition pairs that total 100. Add/subtract 10, 100 from any two-digit number. 	<ul style="list-style-type: none"> Recall addition and subtraction facts for each number up to 20. Write subtraction fact corresponding to given addition fact. Add/subtract 1, 10 to any whole number. Add/subtract 10, 100 from any two-/three-digit number. 	<ul style="list-style-type: none"> Recall addition and subtraction facts for each number up to 20. Write subtraction fact corresponding to given addition fact. Add/subtract 1, 10, 100 to any whole number. Add/subtract a pair of two-digit numbers (not crossing 10 or 100 boundary) Derive addition pairs that total 100, multiples of 50 that total 1000. Add/subtract 10, 100 1000 from any two-/three-digit number.
Year 5	<ul style="list-style-type: none"> Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction). 	<ul style="list-style-type: none"> Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction). 	<ul style="list-style-type: none"> Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).

	<ul style="list-style-type: none"> • Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. • Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. 	<ul style="list-style-type: none"> • Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. • Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. 	<ul style="list-style-type: none"> • Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. • Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
Mental Maths	<ul style="list-style-type: none"> • <i>Add and subtract numbers mentally with increasingly large numbers.</i> • <i>Count on/back in equal steps (e.g. 25, 100, 0.1, 0.2), including beyond zero.</i> • <i>Recall addition and subtraction facts for each number up to 20.</i> • <i>Add / subtract any pair of 2-digit numbers, including crossing 100.</i> 	<ul style="list-style-type: none"> • <i>Add and subtract numbers mentally with increasingly large numbers.</i> • <i>Count on/back in equal steps (e.g. 25, 100, 0.1, 0.2), including beyond zero.</i> • <i>Find pairs of numbers with a sum of 100; derive multiples of 50 with a sum of 1000.</i> 	<ul style="list-style-type: none"> • <i>Add and subtract numbers mentally with increasingly large numbers.</i> • <i>Count on/back in equal steps (e.g. 25, 100, 0.1, 0.2), including beyond zero.</i> • <i>Find pairs of decimals with a sum of 1 / 10.</i>
Year 6	<ul style="list-style-type: none"> • Solve addition and subtraction, including multi-step problems in contexts, deciding which operations and methods to use and why. • Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy. 	<ul style="list-style-type: none"> • Solve addition and subtraction, including multi-step problems in contexts, deciding which operations and methods to use and why. • Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy. 	<ul style="list-style-type: none"> • Solve addition and subtraction, including multi-step problems in contexts, deciding which operations and methods to use and why. • Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.
Mental Maths	<ul style="list-style-type: none"> • <i>Perform mental calculations, including with mixed operations and large numbers.</i> • <i>Add / subtract any pair of two-digit numbers, including crossing 100;</i> • <i>Derive sums and differences such as 7.6 ± 3.8, 760 ± 380.</i> 	<ul style="list-style-type: none"> • <i>Perform mental calculations, including with mixed operations and large numbers.</i> • <i>Find pairs of numbers with a sum of 100; multiples of 50 with a sum of 1000; decimals with a sum of 0.1, 1 or 10.</i> 	<ul style="list-style-type: none"> • <i>Perform mental calculations, including with mixed operations and large numbers.</i> • <i>Add several single-digit numbers.</i> • <i>Count on/back in steps of 25, 0.2, 0.25, 0.5...</i>