

Maths Progression Framework – Addition and Subtraction
(*Italics – Roseberry added objectives*)

Addition and Subtraction – Recall, Represent and Use						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs for simple addition and subtraction calculations	Read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs					
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. (ELG) Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally. (ELG)	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				
		Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot				
		Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.	Estimate the answer to a calculation and use inverse operations to check answers	Estimate and use inverse operations to check answers to a calculation	Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy	Use a range of strategies (including inverse and rounding) to compare and check calculations accurately
Addition and Subtraction - Calculations						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Begin to add and subtract one-digit numbers to 10, including zero.	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: <ul style="list-style-type: none"> 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 with up to three digits, using formal written methods of columnar addition and subtraction	Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)	Use their knowledge of the order of operations to carry out calculations involving all four operations
			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 	Add and subtract numbers mentally, including: <ul style="list-style-type: none"> a four-digit number and ones a four-digit number and tens a four-digit number and hundreds 	Add and subtract numbers mentally with increasingly large numbers	Perform mental calculations, including with mixed operations and large numbers
Addition and Subtractions – Solving Problems						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Begin to solve simple one-step problems that involve addition and subtraction, using concrete objects and pictorial representations.	Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as : 7 = <input type="text"/> – 9	Solve problems with addition and subtraction: <ul style="list-style-type: none"> 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 problems involving addition, subtraction, multiplication and division and a combination of these, including understanding of the meaning of the equals sign	Solve number and practical problems involving addition, subtraction, multiplication and division.