

Addition and Subtraction Progression: EYFS – Y4

	EYFS	Y1 - Block 2 Aut	Y1 - Block 1 Spr	Y2 Block 2 – Aut	Y3 Block 2 – Aut	Y4 - Block 2 Aut
		Number Addition and Subtraction (within 10)	Number: Addition and Subtraction within 20	Number Addition and Subtraction	Number Addition and Subtraction	Number Addition and Subtraction
White Rose Maths Small Steps	Autumn term: Combining 2 amounts Spring term: Number – Bonds to 10 Summer term: Number – Adding More Number – Taking Away	-Part whole model. -Understand the addition symbol. -Fact families – Addition facts -Find number bonds for numbers within 10. -Systematic methods for number bonds within 10. -Number bonds to 10. -Compare number bonds. -Addition: Adding together. -Addition: Adding more. -Finding a part. -Subtraction: Taking away, how many left? Crossing out. -Subtraction: Taking away, how many left? -Introducing the subtraction symbol. -Subtraction: Finding a part, breaking apart -Fact families – The 8 facts. -Subtraction: Counting back. -Subtraction: Finding the difference. -Comparing addition and subtraction statements $a + b > c$. -Comparing addition and subtraction statements $a + b > c + d$	-Add by counting on. -Find and make number bonds. -Add by making 10. -Subtraction – Not crossing 10. -Subtraction – Crossing 10 (1). -Subtraction – Crossing 10 (2). -Related Facts. -Compare number sentences	-Fact families – Addition and subtraction bonds to 20. -Check calculations. -Compare number sentences. -Related facts. -Bonds to 100 (tens). -Add and subtract 1s. -10 more and 10 less. -Add and subtract 10s. -Add a 2-digit and 1-digit number – crossing ten. Subtract a 1-digit number from a 2-digit number – crossing 10. -Add two 2-digit numbers – not crossing ten – add ones and add tens. -Add two 2-digit numbers – crossing ten – add ones and add tens. -Subtract a 2-digit number from a 2-digit number – not crossing ten. -Subtract a 2-digit number from a 2-digit number – crossing ten – subtract ones and tens. -Bonds to 100 (tens and ones). -Add three 1-digit numbers.	-Add and subtract multiples of 100. -Add and subtract 3-digit numbers and ones – not crossing 10. -Add 3-digit and 1-digit numbers – crossing 10. -Subtract a 1-digit number from a 3-digit number – crossing 10. -Add and subtract 3-digit numbers and 2-digit numbers – not crossing 100. -Add a 3-digit number and 2-digit numbers – crossing 100. -Add and subtract 100s. -Spot the pattern – making it explicit. -Add and subtract a 2-digit and 3-digit number – not crossing 10 or 100. -Add a 2-digit and 3-digit number – crossing 10 or 100. -Subtract 2-digit number from a 3-digit number crossing 10 or 100. -Add two 3-digit numbers – not crossing 10 or 100. -Add two 3-digit numbers – crossing 10 or 100. -Subtract a 3 –digit number from a 3-digit number – no exchange. -Subtract a 3-digit number from a 3-digit number – exchange. -Estimate answers to calculations. -Check answers	-Add and subtract 1s, 10s, 100s and 1000s. -Add two 4-digit numbers – no exchange. -Add two 4-digit numbers – one exchange. -Add two 4-digit numbers – more than one exchange. -Subtract two 4-digit numbers – no exchange. -Subtract two 4-digit numbers – one exchange. -Subtract two 4-digit numbers – more than one exchange. -Efficient subtraction. -Estimate answers - Checking strategies
National Curriculum Link	Number ELG Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5	-Represent and use number bonds and related subtraction facts within 10. -Read, write and interpret mathematical statements	-Represent and use number bonds and related subtraction facts within 20. -Read, write and interpret mathematical statements	-Recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100. -Add and subtract numbers	-Add and subtract numbers mentally, including: a three-digit number and ones; a three-digit number and tens, a three-digit number and	-Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where

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	(including subtraction facts) and some number bonds to 10, including double facts. Number ELG Have a deep understanding of number to 10, including the composition of each number; Subitise (recognise quantities without counting) up to 5; Numerical Patterns ELG Explore and represent patterns within numbers up to 10, including evens and odds,	involving addition (+), subtraction (-) and equals (=) signs. -Add and subtract one-digit numbers to 10, including zero. -Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems.	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 $7 = \square - 9$.	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. -Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures; applying their increasing knowledge of mental and written methods. - Show that the 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.	hundreds. -Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. -Estimate the answer to a calculation and use inverse operations to check answers. -Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.	appropriate. -Estimate and use inverse operations to check answers to a calculation. -Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why.
Ready To Progress links WR small steps links		1AS–1 Compose numbers to 10 from 2 parts, and partition numbers to 10 into parts, including recognising odd and even numbers. (Covered in Introducing parts and wholes (single object), Part-whole model (with images), Part-whole model, Find number bonds for numbers within 10, Systematic methods for number bonds within 10, Number bonds to 10, Compare number bonds, Finding a part) 1AS–2 Read, write and interpret equations containing addition (+),	1AS–2 Read, write and interpret equations containing addition (+), subtraction (-) and equals (=) symbols, and relate additive expressions and equations to real-life contexts. (Covered in Add by counting on within 20, Add by making 10, Subtraction - not crossing 10, Subtraction - not crossing 10 (counting back), Subtraction - crossing 10 (1), Subtraction - crossing 10 (2), Related facts) 1NPV–2 Reason about the location of numbers to 20 within the linear number	2NF–1 Secure fluency in addition and subtraction facts within 10, through continued practice. (Covered in Fact families addition and subtraction bonds to 20, check calculations, compare number sentences and know your bonds.) 2AS–1 Add and subtract across 10. (Covered in Add by making 10, Subtraction – crossing 10, Find and make number bonds, Add three 1-digit numbers) 2AS–2 Recognise the subtraction structure of ‘difference’ and answer questions of the form, “How	3NF–1 Secure fluency in addition and subtraction facts that bridge 10, through continued practice. (Covered in Add 3-digit and 1-digit numbers - crossing 10, Subtract a 1-digit number from a 3-digit number - crossing 10, Add 3-digit and 2-digit numbers - crossing 100, Subtract a 2-digit number from a 3-digit number - crossing 100) 3AS-1 calculate complements to 100 (This is not explicitly covered in Year 3; if pupils need extra support then look back to Year 2 Autumn 2 Addition)	4NF-3 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 100) (These strategies are covered within this block, but not as a separate step)

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		subtraction (–) and equals (=) symbols, and relate additive expressions and equations to real-life contexts. (Covered in Addition symbol, Fact families - addition facts, Addition - adding together, Addition - adding more, Subtraction - taking away - crossing out, Subtraction - taking away - using the symbol, Subtraction - find a part, Fact families - the 8 facts, Subtraction - counting back, Subtraction - finding the difference) 1NF–1 Develop fluency in addition and subtraction facts within 10. (Covered in Fact families - addition facts, Find number bonds for numbers within 10, Systematic methods for number bonds within 10, Number bonds to 10, Compare number bonds, Addition - adding together, Addition - adding more, Finding a part, Subtraction - taking away - crossing out, Subtraction - taking away - using the symbol, Subtraction - find a part, Fact families - the 8 facts, Subtraction - counting back, Subtraction - finding the difference)	system, including comparing using < > and = (Covered in Compare number sentences)	many more...?”. (This step is highlighted in several of the subtraction steps here and also within Money in Autumn 2) 2AS–3 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract only ones or only tens to/from a two-digit number. (Covered in Related facts, Add and subtract 1s, 10 more 10 less, Add and subtracts 10s, Add a 2-digit and 1-digit number-crossing ten, Subtract a 1-digit number from a 2-digit number – crossing ten) 2AS–4 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers. (Covered in Add two 2-digit numbers - not crossing ten - add ones and add tens, Add two 2-digit numbers - crossing ten - add ones and add tens, Subtract a 2-digit number from a 2-digit number - not crossing ten, Subtract a 2-digit number from a 2-digit number - crossing ten - subtract ones and subtract tens, Bonds to 100 (tens and ones)	and Subtraction Bonds to 100 (tens and ones) 3AS–2 Add and subtract up to three-digit numbers using columnar methods. (Covered in Add and subtract 100s, Spot the pattern - making it explicit, Mixed addition and subtraction problems, Add and subtract 2-digit & 3-digit numbers-not crossing 10 or 100, Add 2-digit and 3-digit numbers - crossing 10 or 100, Subtract a 2-digit number from a 3-digit number - crossing 10 or 100, Add two 3-digit numbers - not crossing 10 or 100, Add two 3-digit numbers - crossing 10 or 100, Subtract a 3-digit number from a 3-digit number - no exchange, Subtract a 3-digit number from a 3-digit number – exchange) 3AS–3 Manipulate the additive relationship: Understand the inverse relationship between addition and subtraction, and how both relate to the part–part–whole structure. Understand and use the commutative property of addition, and understand the related property for subtraction. (Covered in – Check Answers)	
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