Progression Document - National curriculum and 'Ready to Progress' mapping (EYFS – See NSM section)

Table 1 - National Curriculum Objectives

Table 2 - Ready To Progress Criteria

Table 3 - Small Steps

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
National Curriculum Objectives	read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs	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	add and subtract numbers mentally, including: - a three-digit number and 1s - a three-digit number and 10s - a three-digit number and 10s	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)	solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
	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	add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction	estimate and use inverse operations to check answers to a calculation	add and subtract numbers mentally with increasingly large numbers	perform mental calculations, including with mixed operations and large numbers
	add and subtract one-digit and two-digit numbers to 20, including 0	add and subtract numbers using concrete objects, pictorial representations, and mentally, including: - a two-digit number and 1s - a two-digit number and 10s - 2 two-digit numbers - adding 3 one-digit numbers	estimate the answer to a calculation and use inverse operations to check answers	solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why	use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy	use their knowledge of the order of operations to carry out calculations involving the 4 operations
	solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing	show that addition of 2 numbers can be done in any order (commutative) and subtraction of 1 number from another cannot	solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction		solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	solve problems involving addition and subtraction
	number problems such as 7 = 2 - 9	recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems				use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

	Ready to Progress Criteria	Block	Steps
	1NF-1 Develop fluency in addition and subtraction facts within 10	Aut 2	Number bonds within 10 Systematic number bonds within 10 Number bonds to 10
		Spr 2	- Add ones using number bonds - Subtract ones using number bonds
Year 1	1NF-2 Count forwards and backwards in multiples of 2, 5 and 10, up to 10 multiples, beginning with any multiple, and count forwards and backwards through the odd numbers.		See under Multiplication & Division
	1AS-1 Compose numbers to 10 from 2 parts, and partition numbers to 10 into parts, including recognising odd and even numbers.	Aut 2	Number bonds within 10 Systematic number bonds within 10 Number bonds to 10
	1AS-2 Read, write and interpret equations containing addition (+), subtraction (-) and equals (=) symbols, and relate additive expressions and equations to real-life contexts.	Aut 2	- Fact Families – addition facts - Addition – add together - Addition – add more - Addition problems - Find a part - Subtraction – find a part - Fact families – the eight facts - Subtraction (take away/cross out) - Subtraction – take away (how many left?) - Subtraction on a number line
		Spr 2	Add by counting on within 20 Subtract ones using number bonds Subtraction – Counting back Subtraction – finding the difference Missing number problems
Year 2	2NF-1 Secure fluency in addition and subtraction facts within 10, through continued practice.	Aut 2	- Bonds to 10 - Add by making 10 - Add to the next 10 - Subtract from a 10
	2AS-1 Add and subtract across 10	Aut 2	- Add across a 10 - Subtract across a 10 - Subtract from a 10 - Subtract 1-digit number from a 2 digit number (across a 10)
	2AS-2 Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more?".	Spr 1	- Find change
	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.	Aut 2	Add across a 10 Subtract across a 10 Subtract from a 10 Subtract 1-digit number from a 2-digit number (across a 10) 10 more, 10 less Add and subtract
	2AS-4 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers.	Aut 2	Add two 2-digit numbers (not across a 10) Add two 2-digit numbers (across a 10) Subtract two 2-digit numbers (not across a 10) Subtract two 2-digit numbers (across a 10) Mixed addition and subtraction
		Spr 1	- Make a pound - Find change
		Spr 3	- Four operations with lengths and heights



	3NF-1 Secure fluency in addition and	Aut 2	- Add 1s across a 10		
	subtraction facts that bridge 10, through	7.01 2	- Add 10s across a 100		
	continued practice.		- Subtract 1s across a 10		
			- Subtract 1s across 100		
			- Add two numbers (across a 10)		
			- Add two numbers (across a 10)		
			- Subtract two numbers (across a 10) - Subtract two numbers (across a 100)		
	3NF-2 Recall multiplication facts, and		- Subfract two hornbers (across a 100)		
	corresponding division facts, in the 10, 5, 2, 4				
	and 8 multiplication tables, and recognise	See under Multiplication & Division			
	products in these multiplication tables as				
	multiples of the corresponding number.				
	3NF-3 Apply place-value knowledge to known	0			
	additive and multiplicative number facts	See under Multiplication & Division			
	(scaling facts by 10).				
Year 3	3AS-1 Calculate complements to 100	Aut 1	- Complements to 100		
9		Sum 2	- Subtract money		
>			- Find change		
	3AS-2 Add and subtract up to three-digit		- Add two numbers (no exchange)		
	numbers using columnar methods.		Subtract two numbers (no exchange)		
			- Add two numbers (across a 10)		
			- Add two numbers (across a 100)		
		Aut 2	- Subtract two numbers (across a 10)		
			- Subtract two numbers (across a 100)		
			- Add 2-digit and 3-digit numbers		
			- Subtract a 2-digit number from a 3-digit		
			number		
	3AS-3 Manipulate the additive relationship:	Aut 2	 Inverse operations 		
	Understand the inverse relationship between	71012	 Make decisions 		
	addition and subtraction, and how both relate		 Add money 		
	to the part–part–whole structure.		 Subtract money 		
	Understand and use the commutative	Sum 2	- Find change		
	property of addition, and understand the				
	related property for subtraction.				
	6AS/MD-1 Understand that 2 numbers can be	Spr 1	- Add or multiply?		
	related additively or multiplicatively, and		- Scale drawing		
	quantify additive and multiplicative		- Use scale factors		
	relationships (multiplicative relationships		- Similar shapes		
	restricted to multiplication by a whole		- Ratio problems		
Year 6	number).		- Proportion problems		
			- Recipes		
	6AS/MD-2 Use a given additive or	Aut 2	- Solve problems with multiplication		
	multiplicative calculation to derive or		- Division using factors		
	complete a related calculation, using		- Solve problems with division		
	arithmetic properties, inverse relationships, and		- Solve multi-step problems		
	place-value understanding.		- Reason from known facts		
	6AS/MD-3 Solve problems involving ratio				
	relationships.	See under Ratio and Proportion			
	6AS/MD-4 Solve problems with 2 unknowns.	See under Algebra			
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White Rose Maths National Curriculum Smaller Steps linked to Ready to Progress Criteria

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Calculations	 Aut 2, Spr 2 add and subtract one-digit and two digit numbers to 20, including zero 	Aut 2 • 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	Aut 2 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 with up to three digits, using formal written methods of columnar addition and subtraction	Aut 2 add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate	Aut 2 add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) add and subtract numbers mentally with increasingly large numbers	Aut 2 • 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
Problems	Aut 2 & Spr 2 • solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = -9	■ 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	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 multistep 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 the meaning of the equals sign	solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why