

Mathematics Curriculum Progression Map

Number: Addition and Subtraction

<u>EYFS</u>								
3-4 Year olds	Reception	Year 1	Year 2	Year 3	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>	
Number Bonds								
	Automatically recall number bonds for numbers 0-5 and some to 10.	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					
Mental Calculation								
	Explore the composition of numbers to 10. (Focus on composition	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:	Add and subtract numbers mentally, including:		Add and subtract numbers mentally with increasingly large numbers	Perform mental calculations, including with mixed operations and large numbers	

of 2, 3, 4 and 5 before moving onto larger numbers Model conceptual subitising: "Well, there are three here and three here, so there must be 6."	Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=)	 a two-digit number and ones a two-digit number and tens two two-digit numbers adding three one-digit numbers Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot 	 a three-digit number and ones a three-digit number and tens a three-digit number and hundreds 			Use their knowledge of the order of operations to carry out calculations involving the four		
	signs (cross reference -	another cannot (cross reference –				operations		
	Written Methods)	Written Methods)						
Written Methods								
	Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs (cross	Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot	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	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar			

	reference - Mental	(cross reference –		where	addition and		
	Calculation)	Mental		appropriate	subtraction)		
		Calculations)					
Inverse Operations, Estimating and Checking Answers							
		Recognise and use	Estimate the	Estimate and use	Use rounding to	Use estimation to	
		the inverse	answer to a	inverse	check answers to	check answers to	
		relationship	calculation and	operations to	calculations and	calculations and	
		between addition	use inverse	check answers to	determine, in the	determine, in the	
		and subtraction and	operations to	a calculation	context of a	context of a	
		use this to check	check answers		problem, levels	problem, levels of	
		calculations and			of accuracy	accuracy.	
		solve missing					
		number problems					
	_		em Solving				
Children	Solve one-step	Solve problems with	Solve problems,	Solve addition	Solve addition	Solve addition	
learn number	problems that	addition and	including missing	and subtraction	and subtraction	and subtraction	
bonds	involve addition	subtraction:	number	two-step	multi-step	multi-step	
through lots	and subtraction,	 using concrete 	problems, using	problems in	problems in	problems in	
of "hands-	using concrete	objects and	number facts,	contexts,	contexts,	contexts,	
on"	objects and	pictorial	place value, and	deciding which	deciding which	deciding which	
experiences	pictorial	representations,	more complex	operations and	operations and	operations and	
of	representations,	including those	addition and	methods to use	methods to use	methods to use	
partitioning	and missing	involving	subtraction	and why	and why	and why	
and	number problems	numbers,					
combining	such as 7 = □ - 9	quantities and					
numbers in		measures				Solve problems	
different		 applying their 				involving	
contexts, and		increasing				addition,	
seeing		knowledge of				subtraction,	
subitising		mental and				multiplication	
patterns		written				and division	
		methods					

(Solve simple		
problems in a		
practical context		
involving addition		
and subtraction of		
money of the same		
unit, including		
giving change (cross		
reference from		
Measurement)		