Math Curriculum – Key Skills

Number: Addition and Subtraction

Nursery	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
FIC	FLC			nber Bonds			
ELG – 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 – 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.	represent and use number bonds and related subtraction facts within 20 Develop fluency in addition and subtraction facts within 10.	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Secure fluency in addition and subtraction facts within 10, through continued practice.	Secure fluency in addition and subtraction facts that bridge 10, through continued practice.			
	DMG - Automatically recall number bonds for numbers 0 – 5 and some to 10.	Compose numbers to 10 from 2 parts, and partition numbers to 10 into parts, including recognising odd and even numbers.	Add and subtract across 10.	Calculate complements to 100.			Understand that 2 numbers can be related additively or multiplicatively, and quantify additive and multiplicative relationships (multiplicative relationships restricted to multiplication by a whole number).
ELG –	ELG –	add and subtract one	add and subtract	al Calculation add and subtract		add and subtract	perform mental
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.	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.	digit and two-digit numbers to 20, including zero	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	numbers mentally, including: • a three-digit number and ones • a three-digit number and tens • a three-digit number and tens		numbers mentally with increasingly large numbers	calculations, including with mixed operations and large numbers
	DMG - Automatically recall number bonds for numbers 0 – 5 and some to 10.	read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs (appears also in Written Methods)	show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two digit numbers.				use their knowledge of the order of operations to carry out calculations involving the four operations Solve problems with 2 unknowns.
				en Methods			
		read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs (appears also in Mental Calculation) Read, write and interpret equations containing addition (), subtraction () and equals () symbols, and relate additive expressions and equations to real-life contexts.	Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more?".	add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction Add and subtract up to three-digit numbers using columnar methods.	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 a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding.
			Inverse Operations, Est			use rounding to	uso ostimation to
			recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number	estimate the answer to a calculation and use inverse operations to check answers	estimate and use inverse operations to check answers to a calculation Manipulate the	use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy	use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy.
			problems.	Add and subtract within 100 by applying	additive relationship: Understand the		Solve problems involving ratio

Math Curriculum – Key Skills

Number: Addition and Subtraction

				related one-digit addition and subtraction facts: add and subtract only ones or only tens to/from a two digit number.	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.		relationships.
				lem Solving			
ELG – Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.	ELG – Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.	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 addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
DMG - Solve real world mathematical problems with numbers up to 5.			solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change (copied from Measurement)				Solve problems involving addition, subtraction, multiplication and division