Queen's Park C.E/U.R.C Primary School: Maths Progression Map

Addition and Subtraction

Number Bonds						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 and some number bonds to 10.	Represent and use number bonds and related subtraction facts within 20.	Recall and use addition and subtraction facts up to 20 fluently Derive and use related facts up to 100	Use related facts up to 100 to add and subtract mentally.			

Mental Calculation						
	Add and subtract one digit and two digit numbers to 20, including zero. Read and interpret mathematical statements involving addition, subtraction and equals.	Add and subtract numbers using concrete objects, pictorial representations and mentally, including: - Two digit number and ones - 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 cannot.	Add and subtract numbers mentally including: - Three digit number and ones - Three digit number and tens - Three digit number and hundreds	Add and subtract numbers mentally including: - Four digit number and ones - Four digit number and tens - Four digit number and hundreds - Four digit number and thousands	Add and subtract numbers mentally with increasingly large numbers	Perform mental calculations including with mixed operations and large numbers

Written Methods						
	Read and interpret mathematical statements involving addition, subtraction and equals.	Add and subtract numbers up to two digits using formal written methods of columnar addition and subtraction.	Add and subtract numbers up to three digits using formal written methods of columnar addition and subtraction.	Add and subtract numbers up to four digits using formal written methods of columnar addition and	Add and subtract numbers with more than 4 digits using formal written methods of columnar addition and subtraction where	Add and subtract numbers with more than 4 digits using formal written methods of columnar addition and

				subtraction where appropriate.	appropriate, including decimal numbers.	subtraction where appropriate, including decimal numbers. (Retrieval from Year 5)

Inverse Operations, Estimation and Checking Answers

		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 estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy.

Problem Solving

	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 and pictorial representations including those involving numbers, quantities and measures *applying their increasing knowledge of mental and written methods (Measurement) Solve simple problems in a practical context involving addition and subtraction of money of the same unit including giving change.	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.