Addition and Subtraction - progression map

Yr1 and Yr 2 have been included for reference of learning prior to joining KGA Gomer at Year 3.

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Calculation	Add and subtract 1-digit and 2-digit numbers to 20, including 0	Add and subtract numbers using concrete objects, pictorial representations, and mentally including: - A 2-digit number and ones - A 2-digit number and tens -Two 2-digit numbers Adding three 1-digit numbers	Add and subtract numbers mentally, including: - A 3-digit number and ones - A 3-digit number and tens - A 3-digit number and hundreds 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 where appropriate	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	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	Solve one-step problems that involve 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 multi-step problems in contexts, deciding which operations/methods to use and why Solve problems involving +, -, x and ÷ and a combination of these, including understanding the meaning of the equals sign	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why