Danson Primary School Maths Skills Progression: Addition and Subtraction

KS1 Addition and Subtraction											
Number bonds			**Mental calculation**			**Written methods**			**Missing number and Problem Solving**		
EYFS	Year 1	Year 2	EYFS	Year 1	Year 2	EYFS	Year 1	Year 2	EYFS	Year 1	Year 2
I can represent and use number bonds within 5. Begin to recognise number bonds to 10	I can represent and use number bonds and related subtraction facts [within 10] I can represent and use number bonds and related subtraction facts within 20	I can recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100	I can use quantities and objects to add and subtract two single-digit numbers I can add and subtract amounts to 10. I can add and subtract two single-digit numbers and count on or back to find the answer I can explore the relationship between addition and subtraction	I can add and subtract one-digit and two-digit numbers to 20, including zero I can read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs (appears also in Written Methods) I can 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 number	I can show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot I can 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 number	I can write numbers with the correct written formation.	I can read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs (appears also in Mental Calculation) I can show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot	I can add and subtract two digit numbers without and with regrouping using the expansion method. I can add and subtract in the column method without regrouping.	I can use the part-part whole to solve missing parts of the calculation up to 10	I can use representations to solve missing numbers I can solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = ⬚ - 9	I can recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. I can 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

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KS2 Addition and Subtraction											
Mental calculation				**Written methods**				**Inverse operations, estimating and checking**			
Year 3	**Year 4**	**Year 5**	**Year 6**	**Year 3**	**Year 4**	**Year 5**	**Year 6**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
I can add and subtract numbers mentally, including: * a three-digit number and ones * a three-digit number and tens * a three-digit number and hundreds		I can add and subtract numbers mentally with increasingly large numbers	I can perform mental calculations, including with mixed operations and large numbers I can use their knowledge of the order of operations to carry out calculations involving the four operations	I can add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction	I can add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate	I can add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)	I can add and subtract with any integer - using the most efficient integer.	I can estimate the answer to a calculation and use inverse operations to check answers	I can estimate and use inverse operations to check answers to a calculation	I can use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy	I can use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy.

Problem solving			
Year 3	**Year 4**	**Year 5**	**Year 6**
I can solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction	I can solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why	I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why Solve problems involving addition, subtraction, multiplication and division