



# Addition and subtraction knowledge and skills progression

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p><b>Vocabulary:</b>  <b>Addition and Subtraction</b>            note vocabulary is progressive - years should be using prior years' mathematical terms and vocabulary as well as the vocabulary shown in the current year group</p>	Number bonds, number line Add, more, plus, make, sum, total, altogether Inverse Double, near double Half, halve Equals, is the same as (including equals sign) Difference between How many more to make...? How many more is...than...? How much more is...? Subtract, take away, minus How many fewer is...than...? How much less is...?		Column addition and subtraction		Efficient written method	Order of operations - BIDMAS
<p><b>Addition and Subtraction</b></p>	read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs  represent and use number bonds and related subtraction facts within 20  add and subtract one-digit and two-digit numbers to 20, including zero  solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = Shape - 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  recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100  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 numbers  show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot  recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems	add and subtract numbers mentally, including: - a three-digit number and ones - a three-digit number and tens - a three-digit number and hundreds  add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction  estimate the answer to a calculation and use inverse operations to check answers  solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction	add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate  estimate and use inverse operations to check answers to a calculation  solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why	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  use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy  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 •solve problems involving addition, subtraction, multiplication and division •use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy