Curriculum 2014 - **Mathematics - Addition & Subtraction**

	Number Bonds	Methods	Problem Solving	Commutative	Inverse	Estimation & Rounding
1	Represent and use number bonds and related subtraction facts within 20.	Read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs. 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 = ☐ – 9.			
2	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.	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.	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.	
3		Add and subtract numbers mentally, including: • A three-digit number and ones • A three-digit number and tens • A three-digit number and hundreds Numbers with up to three digits, using formal written methods of columnar addition and subtraction.	Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.			Estimate the answer to a calculation and use inverse operations to check answers.
4		Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.	Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.			Estimate and use inverse operations to check answers to a calculation.
5		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.	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.			Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.
6			Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.			