

Year 5 Calculation Policy				
	Addition & Subtraction		Multiplication and Division	
	<ul style="list-style-type: none"> add and subtract numbers mentally with increasingly large numbers add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) 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 		<ul style="list-style-type: none"> count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 multiply and divide numbers mentally drawing upon known fact multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19 recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) 	
	Addition	Subtraction	Multiplication	Division
	<p>Using place value to add numbers mentally</p> <p>Partitioning to add numbers mentally</p> <p>Column method for addition including decimal and larger numbers.</p> <p>Use rounding to estimate</p>	<p>Using place value to mentally subtract</p> <p>Partitioning numbers to subtract numbers mentally</p> <p>Bridging a 10 mentally.</p> <p>Counting on a number line to count up to multiplies of 1000 + or money</p>	<p>Recall times table facts up to 12x12</p> <p>Using known facts to answer questions such as (30 x 70) mentally</p> <p>Use of place value sliders and place value grids to support the teaching of x/÷ by 10,100 and 1000</p>	<p>Recall division facts based on times table knowledge</p> <p>Using known facts to answer questions such as (4200 ÷ 6) mentally</p> <p>Use of place value sliders and place value grids to support the teaching of x/÷ by 10,100 and 1000</p>

		<p>(eg. Change from £20.00)</p> <p>Column method for subtraction including decimal and larger numbers.</p> <p>Use rounding to estimate</p>	<p>Use the partitioning method to support recalling facts for long division.</p> <p>Short multiplication method for multiplying larger numbers and decimal numbers by a single digit.</p> <p>Long multiplication to multiply up to 4 digits by 2 digits</p> <p>Recognise square numbers by arrays and the notation.</p> <p>Use cubes to model understanding of cubed numbers</p>	<p>Secure understanding of the long division method moving on to dividing by a 2 digit number.</p> <p>Introduce the short method for division for single digits.</p>
Vocabulary	Put Together Add Altogether Total Sum	Take away Minus Subtract Distance between Difference between More than and less than Difference	Multiply Times Groups of Lots of Equal groups Array	Divide Share Equal parts Equal groups Each have... Array