

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
Using place value to add numbers mentally	Using place value to mentally subtract	Recall times table facts up to 12x12	Recall division facts based on times table knowledge
Partitioning to add numbers mentally	Partitioning numbers to subtract numbers mentally	Using known facts to answer questions such as (30 x 70) mentally	Using known facts to answer questions such as (4200 ÷ 6) mentally
Column method for addition including decimal and larger numbers.	Bridging a 10 mentally.	Use of place value sliders and place value grids to support the teaching of x/÷ by 10,100 and 1000	Use of place value sliders and place value grids to support the teaching of x/÷ by 10,100 and 1000
Use rounding to estimate	Counting on a number line to count up to multiples of 1000 + or money		

		<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	<p>Put Together Add Altogether Total Sum</p>	<p>Take away Minus Subtract Distance between Difference between More than and less than Difference</p>	<p>Multiply Times Groups of Lots of Equal groups Array</p>	<p>Divide Share Equal parts Equal groups Each have... Array</p>