

Year 6 Calculation Policy

Year 6 Calculation Policy	
Addition & Subtraction	Multiplication and Division
<ul style="list-style-type: none"> perform mental calculations, including with mixed operations and large numbers use their knowledge of the order of operations to carry out calculations involving the four operations (BODMAS) use estimation 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 problems involving addition, subtraction, multiplication and division 	<ul style="list-style-type: none"> multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication use their knowledge of the order of operations to carry out calculations involving the four operations (BODMAS) divide numbers up to 4-digits by a two-digit whole number using the formal written method of short division where appropriate for the context divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context identify common factors, common multiples and prime numbers Solve problems involving addition, subtraction, multiplication and division <p>Additional:</p> <ul style="list-style-type: none"> 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 100 recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) multiply and divide whole numbers and those involving decimals by 10, 100 and 1000
Addition	Subtraction
Multiplication	Division

	<p>Use place value to add numbers mentally</p> <p>Partition to add numbers mentally</p> <p>Partitioning to add numbers mentally to bridge 10.</p> <p>Column method for addition including decimal and larger numbers.</p> <p>Use rounding to estimate addition calculations</p> <p>Understand the position of addition in BODMAS.</p> <p>Solve multi-step problems in context involving addition, subtraction, multiplication and division</p>	<p>Using place value to mentally subtract</p> <p>Partitioning to subtract numbers mentally</p> <p>Bridging a 10 mentally.</p> <p>Counting on a number line to count up to multiples of 1000 + or money (eg. Change from £20.00)</p> <p>Column method for addition including decimal (different number of decimal places) and larger numbers.</p> <p>Use rounding to estimate subtraction questions</p> <p>Recognise subtraction questions as difference and take away and represent appropriately.</p> <p>Understand the position of subtraction in BODMAS.</p> <p>Solve multi-step problems in context involving addition, subtraction, multiplication and division</p>	<p>Recall times table facts up to 12x12 in any order including fact families</p> <p>Using known facts to answer questions such as (30 x 70 or 0.3 x 7) mentally</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 multiplication questions as scaling, groups and groups of and represent in a bar model</p> <p>Recognise square numbers by arrays and the notation.</p> <p>Use cubes to model understanding of cubed numbers</p> <p>Understand the position of multiplication in BODMAS.</p> <p>Solve multi-step problems in context involving addition,</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>Short division method for dividing by single digits to be taught first in year 6.</p> <p>Long division method for dividing two digit numbers</p> <p>Divide representing a remainder as a remainder, a decimal or fraction.</p> <p>Recognise division questions as groups and groups of and represent both ideas in a bar model</p> <p>Understand the position of division in BODMAS.</p> <p>Solve multi-step problems in context involving addition, subtraction, multiplication and division</p>
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			subtraction, multiplication and division	
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