<table>
<tr><td colspan="5">Year 4 Calculation Policy</td></tr>
<tr><td></td><td colspan="2">Addition & Subtraction</td><td colspan="2">Multiplication and Division</td></tr>
<tr><td></td><td colspan="2">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
Additional skills
Mentally add and subtract numbers up to 3 digits</td><td colspan="2">count in multiples of 6, 7, 9, 25 and 1 000
recall multiplication and division facts for multiplication tables up to 12 × 12
use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers
recognise and use factor pairs and commutativity in mental calculations
multiply two-digit and three-digit numbers by a onedigit number using formal written layout
recognise and use factor pairs and commutativity in mental calculations
Additional skills:
x/÷ by 10 and 100
Multiply by 2 and 3 digit numbers by portioning</td></tr>
<tr><td></td><td>Addition</td><td>Subtraction</td><td>Multiplication</td><td>Division</td></tr>
<tr><td></td><td>Use place value to add numbers mentally

Partitioning to add numbers mentally

Column method for addition including decimal and larger numbers.

Use rounding to estimate</td><td>Using place value to mentally subtract

Partition to subtract numbers mentally

Bridging a 10 mentally.

Counting on a number line to count up to multiplies of 1000 + or money
(eg. Change from £20.00)</td><td>Recall times table facts up to 12x12
Term 1 recall 2,3,4,5,8, 10 &11
Term 2 6 & 7
Term 3 9 &12
Term 4 all times tables to prepare for the x table check.

Recognise fact families for multiplication and division facts.

Represent multiplication by arrays and bar models.</td><td>Recall division facts up to 12x12
Term 1 recall 2,3,4,5,8, 10 &11
Term 2 6 & 7
Term 3 9 &12
Term 4 all times tables to prepare for the x table check.

Recognise fact families for multiplication and division facts.

Using known facts to answer questions such as (420 ÷ 6) mentally</td></tr>
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		Column method for subtraction including decimal and larger numbers. Use rounding to estimate	Using known facts to answer questions such as (30 x 7) mentally Use of place value sliders and place value grids to support the teaching of x/÷ by 10 and 100 Use the partitioning method to support recalling facts for long division. Short multiplication method for multiplying larger numbers and decimal numbers by a single digit. Recognise factor pairs by working through the Multiply 3 digits considering the cumulative order of completing the calculation.	Use of place value sliders and place value grids to support the teaching of x/÷ by 10 and 100 Divide numbers using a number line. Secure understanding of the long division method using counters and long division grids. **Are we going to keep this?** Introduce the short method for division for single digits by drawing counters. (AIM to moved on to working without counters)
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