| Addition | Pupils should be taught to: <br> add numbers mentally, including: <br> a three-digit number and 1 s <br> a three-digit number and 10 s <br> a three-digit number and 100 s <br> add and subtract numbers with up to 3 digits, using formal written methods of columnar addition <br> estimate the answer to a calculation and use inverse operations to check answers <br> solve problems, including missing number problems, using number facts, place value, and more complex addition | Strategies: <br> - Number line <br> - Unstructured number line <br> - Partitioning <br> - Expanded <br> All of the methods should be alongside concrete resources and pictorial representations. <br> DO NOT USE PLACE VALUE COUNTERS UNTIL CHN ARE SECURE WITH DIENNES. <br> Summer term: introduce compact method. | No number line <br> $57+285=342$ <br> $285+50=335$ <br> $335+7=342$ <br> Expanded <br> vertical 374 <br> +248 <br> 12 <br> SUMMER TERM: <br> Compact vertical $\begin{array}{r} 374 \\ +\quad 248 \\ \hline 622 \\ \hline \end{array}$ | No regrouping: <br> $124+15=$ <br> Add together the ones first then add the tens. Use the Base 10 blocks first before moving onto place value counters. <br> With regrouping: $128+134=$ |
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Year 3 Progression in maths


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| Division | Pupils should be taught to: <br> write and calculate mathematical statements for division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods <br> solve problems, including missing number problems, involving division, including positive integer scaling problems and correspondence problems in which $n$ objects are connected to m objects | STRATEGIES: <br> - Number line <br> - Using timetable knowledge \& inverse <br> - Linking arrays to divisions <br> All of the methods should be alongside concrete resources and pictorial representations. <br> DO NOT USE PLACE VALUE COUNTERS UNTIL CHN ARE SECURE WITH DIENNES. |  | e divisor) | Summer term only for higher attainers: use two digits by 1 digit only. |
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