

Formal Written Methods: Addition

| Year | Steps to success | By the end of the year most children will confidently use this method |
|------|--|---|
| 3 | <p>Column addition with no regrouping, showing the calculation alongside Dienes representation</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p style="text-align: center;">Place value counters and Dienes apparatus should be used alongside the formal method to draw attention to regrouping</p> </div> | <p>Add up to three-digit numbers using columnar methods</p> $\begin{array}{r} 147 \\ + 246 \\ \hline 13 \quad (7+6) \\ 80 \quad (40+40) \\ 300 \quad (100+200) \\ \hline 393 \end{array}$ $\begin{array}{r} 265 \\ + 164 \\ \hline 429 \\ 1 \end{array}$ <p>The expanded method might be taught before the compact method is if needed to support understanding.</p> |
| 4 | <p>As with Year 3, place value counters and Dienes apparatus should still be used alongside formal methods.</p> | <p>Add up to four-digit numbers using columnar methods</p> $\begin{array}{r} 1378 \\ + 2148 \\ \hline 3526 \\ 11 \end{array}$ |
| 5 | <p>Most children will be confident in column addition of whole numbers up to 4-digits but place value counters/ plain counters could still be used alongside formal methods when introducing column addition of decimals.</p> | <p>Add numbers with more than 4 digits using columnar methods</p> <p>Add with up to 3 decimal places</p> $\begin{array}{r} 104328 \\ + 61731 \\ \hline 166059 \\ 1 \end{array}$ $\begin{array}{r} 3.65 \\ + 2.41 \\ \hline 6.06 \\ 1 \end{array}$ |
| 6 | See above | Consolidation |

Whilst the White Rose Addition and Subtraction Calculation Policy mentions column addition of 2 digit numbers at Year 2, both the National Curriculum and the new DfE maths guidance do not introduce it until Year 3.