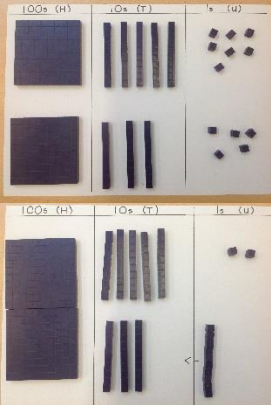


Hatch Warren Junior School Calculation Policy - Addition



End of year expectations	Year 3 Add numbers with up to 3 digits using formal written methods of columnar addition.	Year 4 Add numbers with up to 4 digits using the formal written methods of columnar addition.	Year 5 Add whole numbers with more than 4 digits, including using formal written methods (columnar addition).	Year 6 Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
<p>Developing written methods (conceptual understanding)</p> <p>NB All children should understand that addition can be done in any order.</p>	<p>1. Use dienes: $157 + 135 =$ Discuss using dienes, what is happening to the units when you add 5 and 7</p>  <p>2. Use dienes to support moving to expanded column method:</p> $46 + 27$ $\begin{array}{r} 40 + 6 \\ 20 + 7 \\ \hline 60 + 13 = 73 \end{array}$ <p>3. Then with exchange:</p> $46 + 27$ $\begin{array}{r} 40 + 6 \\ 20 + 7 \\ \hline 70 + 3 = 73 \\ 10 \end{array}$	<p>Secure Year 3 methods. Use dienes where appropriate to support understanding.</p> <p>Moving on to securing formal column method for up to 4 digits.</p> $\begin{array}{r} 2458 \\ + 596 \\ \hline 3054 \\ \hline \end{array}$ <p>Move on to adding several numbers using the column method.</p> <p>NB: numbers should always be carried UNDERNEATH (and should be small)</p>	<p>Secure formal column method for larger numbers and with decimals in context.</p> $\begin{array}{r} \pounds 1.75 \\ + \pounds 2.36 \\ \hline \pounds 4.11 \\ 1 \quad 1 \end{array}$	<p>Use formal column method for large numbers, different sized numbers and decimals in different contexts.</p> $\begin{array}{r} 237.400 \\ + 6.351 \\ \hline 0.920 \\ \hline 244.671 \\ 1 \quad 1 \end{array}$

Hatch Warren Junior School Calculation Policy - Addition

4. Moving on to formal column method:

$$\begin{array}{r} 423 \\ + 88 \\ \hline 511 \end{array}$$