

Albury Primary School
Calculation Policy
Addition

At the beginning of each year group consolidate methods from previous year group.

Year Group	Method
R	See mental calculation guidance.
1	<p>Mental strategies relating addition to counting and recognising that addition can be done in any order. Adding 1 to a multiple of 10. Adding 1 digit to a 1 digit number. e.g. $14 + 7$</p> <div style="text-align: center;"> </div> <p>Adding more than 2 single digit numbers together. e.g. $6 + 7 + 5$</p> <div style="text-align: center;"> </div>
2	<p>Horizontal partitioning method to add a 2 digit to a 2 digit number. e.g. $47 + 76 = 40 + 70 + 7 + 6 = 123$</p>
3	<p>Partitioning method adding 2 digit numbers, moving onto 3 digit numbers. Consolidate horizontal partitioning method and then move onto vertical partitioning method. e.g. $47 + 76$</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> $\begin{array}{r} 47 \\ + 76 \\ \hline \end{array}$ </div> <div style="text-align: center;"> $\begin{array}{r} 40 + 7 \\ 70 + 6 \\ \hline 110 + 13 = 123 \end{array}$ </div> <div style="text-align: center;"> $\begin{array}{r} 47 \\ + 76 \\ \hline 13 \\ \hline 110 \\ \hline 123 \end{array}$ </div> </div> <p>e.g. $126 + 135$</p> <div style="text-align: center;"> $\begin{array}{r} 126 \\ + 135 \\ \hline 11 \\ 50 \\ \hline 200 \\ \hline 261 \end{array}$ </div>

Adding using the expanded column method starting with two 2 digit numbers and moving onto adding 3 digit numbers. Moving onto compact method when children are confident.

e.g. $48 + 35$

$$\begin{array}{r} 48 \\ + 35 \\ \hline 13 \\ 70 \\ \hline 83 \end{array}$$

$$\begin{array}{r} 48 \\ + 35 \\ \hline 83 \\ 1 \end{array}$$

4

e.g. $123 + 118$

$$\begin{array}{r} 123 \\ + 118 \\ \hline 11 \\ 30 \\ 200 \\ \hline 241 \end{array}$$

$$\begin{array}{r} 123 \\ + 118 \\ \hline 241 \\ 1 \end{array}$$

Compact method to add two 3 digit numbers including decimals with upto 2 places.

e.g. $326 + 495$

$$\begin{array}{r} 326 \\ + 495 \\ \hline 821 \\ 11 \end{array}$$

5

e.g. $\text{£}28.07 + \text{£}13.95$

$$\begin{array}{r} \text{£}28.07 \\ + \text{£}13.95 \\ \hline \text{£}42.02 \\ 11 \end{array}$$

(We wouldn't expect children to write £ signs in calculations only in answers.)

6

Consolidating the compact method above.

- Reinforce place value throughout year groups.
- The last example shows end of year expectation.

These methods are appropriate when numbers cannot be added mentally or mentally with jottings, (i.e. when carrying is involved).