## **Wilkinson Addition Policy**

Year 1

## Addition Year 2

Year 3

### + = signs and missing numbers

Children need to understand the concept of equality before appropriate large numbers. using the '=' sign. Calculations should be written either side Extend to of the equality sign so that the sign is not just interpreted as 14+3=10+ the answer.

$$2 = 1+1$$
  
 $2+3=5$ 

Missing numbers need to be placed in all possible places.

$$3+2=$$
 =3+2  
3+= $\overline{5}$  =  $\overline{5}$ =+2

### Activities

Children should use a wide range of counting equipment. everyday objects, as well as hoops, sorting trays, number tracks and numbered number lines.

### Teacher modelling

Drawing jumps on numbered number lines to help understanding of the mental method

To make their own jumps using rulers, fingers, pens bodies

7+4

0 1 2 3 4 5 6 7 8 9 10 11 12

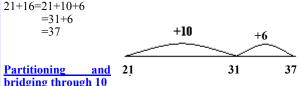
### + = signs and missing numbers

And 36+ + = 100

### Partition into tens and ones and recombine

12+24=10+2+20+4 =30+6=36

### Count on in tens and ones



The steps in addition often bridge through a multiple of 10

Children should be able to partition the 6 to +2 +4 relate adding 2 and then the 4. 8+6=14 10 14

### Add 9 or 11 by adding 10 and adjusting by 1.

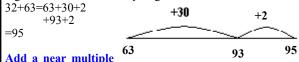
Add 9 by adding 10 and adjusting by 1 +10 23+9=32 33 > 32

### += signs and missing numbers

Continue using a range of equations as in year 1, but with Continue as in Year 1 and 2 but with appropriate, larger num-

### Partition into tens and ones.

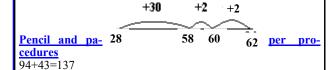
Partition both numbers and recombine. Count on by partitioning the second number only. E.g.



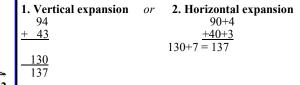
## of 10 to a two digit number

Secure mental methods by using a number line to model the method. Continue as in year 2 but with appropriate numbers. E.g. 56+19 is the same as 56+20-1

Children need to be secure adding multiples of 10 to any two digit number including those that are not multiples of 10. 28+34=62



Either



Year 4

# Addition Year 5

## Year 6

### + = signs and missing numbers

Continue as in Year 1, 2 and 3 but with appropriate numbers.

### Partition into tens and ones and recombine

Either partition both numbers and recombine or partition the second number only e.g.

Continue as in Year 2 and 3 but with appropriate numbers E.g. 43+39 is the same as 43+40-1

### Pencil and paper procedures

568+287= 855

adjust

Either	or
568	500+60+8
<u>+287</u>	<u>+200+80+7</u>
15	700+140+15=855
140	
700	

### Leading to

855

Develop to decimals when recording money.

### + = signs and missing numbers

Continue as in Year 1,2,3 and 4 with appropriate numbers.

### Partition into hundreds, tens and ones and recombine

Either partition both numbers and recombine or partition the second number only

Continue as in Year 2, 3 and 4 but with appropriate numbers E.g. 857+59=the same as 857+60-1

### Pencil and paper procedures

Extend to numbers with at least four digits 7588+765=8353

Go back to expanded methods if the children have difficulty with the above method.

Once the children are secure work up to two places of decimals (same number of decimals places) and adding several numbers (with different numbers of digits.)

86.9 +54.6 141.5 1 1

### + = signs and missing numbers

Continue as in  $\overline{\text{Year } 1, 2, 3, 4, 5}$  but with appropriate numbers.

## Partition into hundreds, tens, ones and decimal fractions and recombine

Either partition both numbers and recombine or partition the second number only

E.g. 15.7+8.3=15.7+8+0.3 = 23.7+0.3 = 24.0 +8.0 +0.3 Add the nearest multiple of 10, 100 15.7 23.7 24.0

or 100 and then adjust
Continue as in year 2, 3, 4 and 5 but with appropriate numbers including extending to adding 0.9, 1.9, 2.9 etc.

### Pencil and paper procedures

Extend to numbers with any number of digits and decimals with 1, 2 and/or 3 decimal places.

16.78+7.783= 24.563

$$\begin{array}{r}
 16.78 \\
 + 7.783 \\
 \hline
 24.563 \\
 \hline
 11 1
 \end{array}$$

Go back to using expanded methods if the children experience any problems