

Addition

Children will firstly be taught **horizontal** methods of addition that reinforce **mental arithmetic** processes.

e.g. $24 + 45 =$

$$24 + 40 = 64$$

$$64 + 5 = 69$$

The vertical method is introduced once mental arithmetic processes are secure.

e.g.

$$\begin{array}{r} 46 \\ + 37 \\ \hline 83 \\ \hline 1 \end{array}$$

Subtraction

Children will firstly be taught **horizontal** methods of subtraction that reinforce **mental arithmetic** processes.

e.g. $56 - 27 =$

$$56 - 20 = 36$$

$$36 - 7 = 29$$

The **vertical** method is introduced once mental processes are secure.

$$\begin{array}{r} \overset{3}{\cancel{4}}\overset{1}{6} \\ - 29 \\ \hline 17 \end{array}$$

Multiplication

Children will firstly be taught straight forward multiplication facts that should be reinforced often to ensure **speed and accuracy** in their knowledge.

P1 – P3: x2, x10, x5, x4 & x3.

P4 – P5: x6, x7, x8 & x9.

After this point more complex written methods will be introduced.

The **grid method** will be used to introduce children to written multiplication calculations to increase their understanding of the multiplication process.

e.g.

	60	4
3	180	12

$3 \times 64 = 192$

The **vertical method** is introduced once children are secure in applying the grid method.

e.g.

$$\begin{array}{r} 64 \\ \times 30 \\ \hline 00 \\ 1920 \\ \hline 1920 \\ \hline \end{array}$$

Division

Children will firstly be taught straight forward division facts linked to multiplication facts that should be reinforced often to ensure **speed and accuracy** in their knowledge.

P1 – P3: $\div 2$, $\div 10$, $\div 5$, $\div 4$ & $\div 3$.

P4 – P5: $\div 6$, $\div 7$, $\div 8$ & $\div 9$.

After this point formal **written** methods will be introduced.

e.g.

$$\begin{array}{r} 12 \text{ r}2 \\ 3 \overline{) 38} \end{array}$$