## YEAR 2

Addition		
Knowledge and understanding/Mental Strategies	Informal Written Methods	Formal Written Methods
Use of models and images: • concrete objects/pictorial representations • practical apparatus • number tracks and number lines • number tracks and number lines • number tracks and number lines • - 1-100 number square • empty number line • $\frac{1}{2} + \frac{1}{2} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3}} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3}} + \frac{1}{3} $	Note: No column preparation for formal methods. Calculations to be presented horizontally for mental calculation and partitioning.	Not introduced in Year 2

## YEAR 2

Multiplication		
Knowledge and understanding/Mental Strategies	Informal Written Methods	Formal Written Methods
• Use of models and images: - concrete objects/pictorial representations $\overrightarrow{v}$ $\overrightarrow{v}$ $\overrightarrow{v}$ $\overrightarrow{v}$ $\overrightarrow{v}$ $\overrightarrow{v}$ $\overrightarrow{v}$ $\overrightarrow{v}$ $\overrightarrow{v}$ - arrays $\circ \circ $	Methods	Methods
5 + 5 + 5 = 15		
<ul> <li>counting in steps of a constant size</li> <li>recall and use multiplication facts for the 2, 5 and 10 multiplication tables</li> <li>understand and use the inverse relationship between multiplication and division, including doubling and halving</li> <li>calculate the value of an unknown in a number sentence, e.g. are 2 = 6, 3 are 30</li> <li>know that the x1, x2, x5, and x10 tables are known as the Key Facts</li> <li>double all numbers to 20, multiples of 5 and 10 to 100</li> </ul>	Not introduced in Year 2	Not introduced in Year 2

Division		
Knowledge and understanding/Mental Strategies	Informal Written Methods	Formal Written Methods
<ul> <li>Use of models and images:</li> <li>concrete objects/pictorial representations</li> <li>→ → → → → → → → → → → → → → → → → → →</li></ul>	Not introduced in Year 2	<mark>Not introduced in</mark> Year 2