KS1 Written Calculation Policy


St. John's CEP School, Sevenoaks


Key Techniques:
Mental recall follows concrete and pictorial understanding. Reciting of number facts must have a secure foundation of understanding.
Before the introduction of a number lines for addition and subtraction, children must be secure when partitioning numbers to 10 in different ways, with an emphasis on understanding the importance of 5 .
However, the use of a number line for calculating may be modelled by the teacher alongside concrete and pictorial representations.

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| Yr 2 | Addition | Subtraction | Multiplication | Division | Fractions <br> recognise, find, name and write fractions $1 / 3,1 / 4,2 / 4$ and $3 / 4$ of a length, shape, set of objects or quantity. |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | solve problems with addition and subtraction show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot |  | Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts. <br> calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ( $\times$ ), division $(\div)$ and equals ( $=$ ) signs |  |  |
|  | - solve problems with addition and subtraction: <br> - using concrete objects and pictorial representations, including those involving numbers, quantities and measures <br> - applying their increasing knowledge of mental and written methods $\begin{aligned} & 6 \text { tens }+3 \text { tens }=9 \text { tens } \\ & \begin{array}{l} \text { Think: } I \text { can use the } \\ \text { addition fact } 6+3=9 . \end{array} \\ & 60+30=90 \end{aligned}$ <br> - recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 <br> - add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <br> - a two-digit number and ones (see year one) <br> - a two-digit number and tens | - show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. <br> Remove rods and ones, to see what's left (build on year one) <br> Move to, $47-19$, where regrouping and renaming takes place | - show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot |  | 00000 <br> Ensure that 2/4 and $3 / 4$ are the first non-unit fractions children meet <br> Write simple fractions for example, <br> - $1 / 2$ of $6=3$ recognise the equivalence of $2 / 4$ <br> And 1/2 . |



[^0]Work towards recording in columns to support next steps in Year 3


[^0]:    Key Techniques: Use tens frames, number lines, numicon, number bugs, bead strings to support mathematical connections.

