St John's Mathematics Calculation Policy

## Year 1

## Addition

| Year Group | Number Facts Pupils should be taught to: | Written Calculations and Appropriate Models and Images to Support Conceptual Understanding |  |
| :---: | :---: | :---: | :---: |
| 1 | - Represent and use number bonds and related subtraction facts within 20 (rapid recall) <br> - Children to understand that addition can be done in any order (commutative) | Children are encouraged to count on using practical resources e.g. using fingers, cubes, Numicon, beads to solve addition sentences including missing numbers. Children to record their number sentence. <br> Children to draw pictorially to solve addition problems. Children to use base 10 apparatus (e.g. egg boxes) to solve number facts up to 20 including bridging through10 e.g. 8+4= Children to record their number sentence. <br> Children to use a number line to count on in ones. They also use to bridge through 10 in larger jumps applying knowledge of number facts <br> Children to add by partitioning e.g. $2+4=6$ $12+4=16$ <br> Children to solve number sentences involving missing numbers and where the number sentence starts with the answer e.g. $15=10+5$ | $\bullet \bullet \bullet \bullet 日$ 000 -000 <br> $3+1=4$ $8+5=$ $\begin{array}{l\|l} 5+\square=11 & 8+\square=12 \end{array}$ |

## Subtraction

| Year Group | Number Facts Pupils should be taught to: | Written Calculations and Appropriate Models and Images to Support Conceptual Understanding |  |
| :---: | :---: | :---: | :---: |
| 1 | - Represent and use number bonds and related subtraction facts within 20 (rapid recall) <br> - Understand that subtraction must have the largest number first | - Children are encouraged to count back using practical resources e.g. using fingers, cubes, Numicon, beads to solve subtraction sentences including missing number. <br> - Children to draw pictorially to solve subtraction problems. | $20-\square=10$ |


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- Children to subtract using a number line starting with the largest number and counting back in ones (subtracting a one digit number)
- The number line should also be used to show that 6-3 means the 'difference between 6 and 3 ' or 'the difference between 3 and 6 ' and how many jumps they are apart.
- Children to use base 10 apparatus e.g. egg boxes to bridge through 10. Children to also show on a number line.
- Children to use their knowledge of place value to partition a number to subtract 1 digit from 2 digit.



## Multiplication



## Division



