## All Saints CE Primary



How we teach calculations: Calculation Policy for Mathematics

# About our calculation Policy <br> <br> Autumn 2021 

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## A United Caring Community of Learners

The following calculation policy has been devised to meet requirements of the National Curriculum 2014 for the teaching and learning of mathematics, and is also designed to give pupils a consistent and smooth progression of learning in calculations across the school.

Models and pictorial representations are vital for children to acquire and develop their conceptual understanding of number a nd calculation throughout the teaching of mathematic concepts. Teachers build fluency skills through problem solving and reasoning activities.

Fluency is the quick and efficient recall of facts whilst applying to different contexts and representations consisting of th ree elements: efficiency, accuracy and flexibility.

## Age stage expectations of the final formal written method for each area of calculations are represented in this document.

The calculation policy is organised according to age stage expectations as set out in the National Curriculum 2014, however it is vital that pupils are taught according to the stage that they are currently working at, being moved onto the next level as soon as they are ready, or working at a lower stage until they are secure enough to move on.

Providing a context for calculation:
It is important that any type of calculation is given a real life context or problem solving approach to help build children's understanding of the purpose of calculation, and to help them recognise when to use certain operations and methods when faced with problems. This must be a priority within calculation lessons.

## Choosing a calculation method:

Children need to be taught to use the following processes in deciding what approach they will take to a calculation, to ensure they select the most appropriate method for the numbers involved:


## Addition formal methods

## Year 1



Using concrete resources, number lines, part-whole model and ten frames to solve addition problems within 20.


Subtraction formal methods
Year 1


Multiplication formal methods


Division formal methods



