



Calculation Policy

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Review schedule:	Triennial
Policy Area:	Curriculum

Aims and Ethos

At All Saints CE Primary School & Nursery it is our aim to raise standards by promoting a school ethos that is underpinned by core Christian values. Our Christian values support all areas of learning and can contribute to pupils' motivation to learn. It is recognised that this will be most successful when the values and attitudes promoted by the staff provide a model of behaviour for the children. All our policies and decision making are formed through the lenses of these Christian values to ensure that our school lives them out in all aspects of its collective life.

This policy supports the White Rose maths scheme used throughout the school. Progression within each area of calculation is in line with the programme of study in the 2014 National Curriculum. This calculation policy should be used to support children to develop a deep understanding of number and calculation. This policy has been designed to teach children through the use of concrete, pictorial and abstract representations.

- Concrete representation— a pupil is first introduced to an idea or skill by acting it out with real objects. This is a 'hands on' component using real objects and is a foundation for conceptual understanding.
- Pictorial representation – a pupil has sufficiently understood the 'hands on' experiences performed and can now relate them to representations, such as a diagram or picture of the problem.
- Abstract representation—a pupil is now capable of representing problems by using mathematical notation, for example $12 \times 2 = 24$.

It is important that conceptual understanding, supported by the use of representation, is secure for all procedures. Reinforcement is achieved by going back and forth between these representations.

Mathematics Mastery

At the centre of the mastery approach to the teaching of mathematics is the belief that all children have the potential to succeed. They should have access to the same curriculum content and, rather than being extended with new learning, they should deepen their conceptual understanding by tackling challenging and varied problems. Similarly, with calculation strategies, children must not simply rote learn procedures but demonstrate their understanding of these procedures through the use of concrete materials and pictorial representations. This policy outlines the different calculation strategies that should be taught and used in Year 1 to Year 6 in line with the requirements of the 2014 Primary National Curriculum.

How to use the policy:

This calculation policy is based on the policy from White Rose and is split into four sections, addition, subtraction, multiplication and division. At the start of each section there is an overview of the progression of skills. The full policy detail can be found in the Appendix Section.

Review

This policy will be reviewed at least every three years, or as soon as possible after changes to the White Rose scheme indicate the policy requires updating.

Appendix A: White Rose Calculation Policy