



'Loving God in all we do'

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POLICY – MATHEMATICS (2024)

Intent

This document reflects St. Anne's values and philosophy in relation to the teaching and learning of Mathematics equips pupils with the uniquely powerful set of tools to understand and change the world. These tools include logical reasoning, problem solving skills and the ability to think in abstract and different ways.

Mathematics is important in everyday life. It is integral to many aspects of life and with this in mind St Anne's staff endeavour to ensure that children develop a positive and enthusiastic attitude towards Maths that will stay with them from nursery age to Year 6 and beyond.

The National Curriculum key learning for Maths describes in detail what pupils must learn in each year group. Combined with our own St Anne's progression documents for each strand and calculation policies for the four operations, it ensures continuity and progression as well as high expectations for attainment in mathematics.

It is vital that a positive attitude towards mathematics is encouraged amongst all of our pupils in order to foster confidence and achievement in a skill that is essential in our society. At St Anne's we use the National Curriculum's Key Learning, as well as White Rose Maths Scheme as the basis of our mathematics planning and teaching. We are committed to ensuring that all pupils achieve genuine progress and avoid gaps in their understanding that provide barriers to learning as they move through education.

Implementation

Throughout St Anne's, teachers use a range of teaching strategies to engage the children in maths and ensure progress is made by all children in their class. There is no 'typical' lesson but in the classrooms Maths lessons would include:

- Both teaching input and pupil activities,
- A balance between whole class, guided grouped and independent work, (groups, pairs and individual work)
- Effectively differentiated activities or outcomes, clear objectives and appropriate challenge.

Often the focus for a lesson would be new learning, but at other times pupils may be practising, to master the application of a concept they have learned previously. The focus of the session may vary for different children depending on their learning needs.

At times there may be opportunities to develop skills to become independent learners and encourage a development of understanding of mathematics through additional activities, some of which may take Miss K Williams – Maths Lead

place at home. The school has invested in online programmes to support the children such as, Times Tables Rock Stars and Century.

Teachers plan learning which is differentiated to meet the needs of all pupils in a class, whether they have a specific learning difficulty in maths or whether they are particularly able. Even with differentiation the challenges and expectations for each pupil remains high and personal to them.

Strategies

Pupils are provided with a variety of opportunities and strategies to develop and extend their Mathematical skills, including:

- Group work
- Paired work
- Whole class teaching

Pupils engage in:

- mental and written strategies
- practical work
- investigational work and problem solving
- 'maths talk' and discussion
- consolidation of basic skills and number facts
- maths games

We recognise the importance of establishing a secure foundation in mental calculation and recall of number facts before standard written methods are introduced. We use accurate mathematical vocabulary in our teaching and children are expected to use it in their verbal and written explanations.

We aim at all times to set work that is challenging, motivating and encourages the pupils to think about how they learn and to talk about what they have been learning.

To provide adequate time for developing mathematics, maths is taught daily and discretely. Maths lessons may vary in length but will usually last for about 45 minutes in Key Stage 1 and 60 minutes in Key Stage 2. It is also taught through the school's 'Daily Challenge' which is provided by 'Deepening Understanding' an extension of White Rose Maths which provides children with opportunities to develop their mastery skills. St Anne's have also introduced the initiative 'Afternoon Maths' which is a short 15 minute session straight after lunch focusing on a strand of Maths not currently being taught in the morning Maths lessons. The intention for this is to recap and renew knowledge of topics which may not be focused on till later in the year through short, sharp sessions.

Impact

The impact of our Maths curriculum is evident through:

- Fluency in their recall of key number facts and procedures
- Accuracy in the formal calculation methods for all four operations
- The flexibility and fluidity to move between different contexts and representations of mathematics.
- The ability to recognise relationships and make connections in mathematics.
- The confidence and resilience to reason mathematically and solve a range of problems.