



Coupe Green
Primary School
HOUGHTON

Mathematics Policy

Aims and Objectives

At Coupe Green Primary School we value every pupil and the contribution they have to make. As a result, we aim to ensure that every child achieves success and that all are enabled to develop their skills in accordance with their level of ability. Mathematics is both a key skill within school, and a life skill to be utilised throughout every person's day-to-day experiences.

Rationale

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 ways. Mathematics is important in everyday life. It is integral to all aspects of life and with this in mind we endeavour to ensure that children develop a positive and enthusiastic attitude towards mathematics that will stay with them beyond their time at Coupe Green.

The National Curriculum for mathematics (2014) describes in detail what pupils must learn in each year group. Combined with our Written Calculation Policy, this ensures continuity, progression and high expectations for attainment and progress 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 Coupe Green we use the National Curriculum for Mathematics (2014) as the basis of our mathematics programme. We are committed to ensuring that all pupils achieve their potential in the key concepts of mathematics, appropriate for their age group, in order that they make genuine progress and avoid gaps in their understanding that provide barriers to learning as they move through education.

Aims

- To promote enjoyment and enthusiasm for learning through practical activity, exploration and discussion
- To develop logical thinking and reasoning skills through a natural curiosity and investigative approach
- To promote confidence and competence so that children are 'proud to shine' about their achievements
- To develop a thorough knowledge and understanding of numbers and the number system
- To develop the ability to solve problems through decision-making and reasoning in a range of contexts
- To develop a practical understanding of the ways in which information is gathered and presented
- To explore features of shape and space, and develop measuring skills in a range of contexts
- To understand the importance of mathematical skills in everyday life.

Teaching and Learning

At Coupe Green we follow the White Rose Maths scheme of learning which develops pupils' ability to become fluent in key mathematical operations and experience a range of reasoning and problem-solving opportunities. Children are also introduced to a range of concrete objects and manipulatives as well as pictorial representations which help develop their mathematical understanding and allow them to access more abstract concepts.

To complement our teaching of Mathematics and allow children to develop their fluency in key mathematical operations, children begin each day with focussed practising of their arithmetic skills. Children across Key Stage Two also access the Times Table Rockstars learning platform to develop rapid recall of their times tables; a key skill in developing mathematical fluency and confidence.

Mathematics is taught daily containing whole class teaching, guided groups and independent tasks. At Coupe Green we ensure that each group of learners work within an adult led Guided Group each week so that they can be challenged and supported as needed. Guided Group work is planned to target groups' needs, therefore does not always follow the lesson objective and main teach.

Work set is differentiated to cater to learning needs and individual targets. Objectives for teaching and learning are taken from the Lancashire Maths Planning Support document and learning in mathematics is linked to class themes when possible to ensure that mathematics learning is meaningful and relevant to the children.

Mathematics can be seen in other curriculum areas, such as science and computing and is linked as frequently as possible to the lead subject for that half-term.

At Coupe Green we strive to make all learning fun and engaging, therefore mathematics lessons are often active and use a variety of resources to engage and support children.

Children are introduced to resources such as Numicon and base ten to support their calculation progress in Key Stage 1 (see written calculation policy). These resources are also used in Key Stage 2 to give the children a visual representation of calculations.

At Coupe Green our aim is that **all** children meet their full potential. In order to achieve this in mathematics, class teachers analyse data, along with senior leaders, and identify those children who are working above the expected level (More Able) and those that are working below the expected level. These groups of learners are indicated on planning and activities are set of support and challenge them.

Intervention groups are also organised, with these taking place outside of the main mathematics lesson so that children who are not progressing as expected receive extra mathematics input and support.

Time Allocation

The time allocated for Maths is in line with recommendations for key stages one and two. This amounts to 7.5 hours per week at both key stages. In addition, it is expected that cross-curricular links will contribute to pupils' effective learning in basic mathematics skills. This is reinforced through our delivery of the curriculum.

Role of the Subject Leader

- Ensures teachers understand the requirements of the National Curriculum and helps them to plan lessons.
- Leads by example by setting high standards in their own teaching.
- Prepares, organises and leads CPD and joint professional development.
- Works with the SENCO and SLT.
- Plans CPD with colleagues with a view to identifying the support they need.
- Holds regular discussions with the Head Teacher and the mathematics governor regarding the progress of implementing the National Curriculum for Mathematics in school.
- Monitors and evaluates mathematics provision in the school by conducting regular work scrutiny,
- Conducts learning walks and assessment data analysis.

Homework

Children in KS1 are set homework as part of their Pick and Mix activities, which are sent home at the start of each half-term. They complete challenges at a time of their choosing, with activities designed to provide challenge for all ability levels.

Children in KS2 are set a weekly challenge on Times Table Rockstars to complete. These games aim to develop children's fluency and rapid recall of number facts in a fun and interactive way.

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