



## MATHS

### INTENT– What does Maths look like at The Greville?

At The Greville, it is our intention to provide a firm grasp of mathematics which is essential for understanding the world and everyday life. As one of the core subjects taught in primary schools, we give the teaching and learning of maths the prominence it requires.

Maths is concerned with increasing children's fluency in number facts, knowledge of the different mathematical domains and an ability to apply this knowledge to problems and the world around them for a deep and sustained understanding. It will develop confident and active learners who work with resilience and take responsibility for their own learning.

We aim to develop children's enthusiasm and enjoyment of mathematic learning and application, ensuring that the maths curriculum we provide will give children the confidence and motivation to continue to develop their skills into the next stage of their education.

Our maths curriculum is designed to challenge and develop every child with a mission of **"Inspire, Nurture, Achieve"**.

### IMPLEMENTATION – So, how are we going to deliver this?

At The Greville we ensure that the school gives full coverage of The 2014 National Curriculum programmes of study for maths and number and number patterns in the Early Years Foundation Stage. This is aided through the use of White Rose. Maths is carefully planned, following the long-term plan, to ensure progression of learning in each year group. Progression of fluency to develop subitising (EYFS) and number facts are similarly specified to ensure that all these facts are taught, practised and retained with the support of the Mastering Number programme. These are progressed throughout a child's primary maths education.

Each lesson begins with a review of required knowledge to ensure retention of concepts, skills and processes which the lesson will build on. In every lesson, there are opportunities for children to reason and problem solve. Teachers ensure that lessons support and challenge pupils to meet all learners needs and draw on the use of any support staff and the resources available so that 'no child is left behind'. Through this, children will be able to build on prior knowledge and link ideas together, enabling them to retain learning. This will be further enhanced by the teacher representing concepts, questioning and modelling different mathematical skills, allowing them to instantly assess their children's knowledge and identify and address any misconceptions. To assess the impact of the teaching, at the end of each unit, the children have a summative assessment which identifies strengths and areas for further development.

At The Greville children will experience:

- Representing concepts practically and pictorially
- Noticing patterns
- Problem solving
- Mathematical investigations
- Taking measurements
- Recognising non-examples

This approach encourages our children to: build confidence, resilience, aid retention and supports them in developing a deep understanding of concepts that they can apply more broadly.

Key mathematical language is modelled throughout lessons enabling our children to be familiar with and use vocabulary accurately. To ensure this vocabulary 'sticks' it is displayed on working walls and regularly referred to. This enables children to readily apply the vocabulary to their written, mathematical and verbal communication.

We seize opportunities to further enhance the curriculum and grow enthusiasm in maths through making links with other curriculum areas, such as statics and measure in science and measure in design and technology.

## IMPACT - What difference is this curriculum making to our children?

The impact and measure of this is to ensure children not only acquire the appropriate age-related knowledge from the maths curriculum, but also skills which equip them to progress from their starting points, and within their everyday lives.

All children will:

- Have instant recall of year group number facts
  - **EYFS**- subitise to 5 and composition of numbers to 10
  - **KS1**- instant recall of addition and subtraction facts
  - **By the end of Year 4**- instant recall of times table facts (multiplication and division).
- More children leave The Greville having achieved the age-related expectation in maths than do nationally.
- Have a rich vocabulary which will enable to articulate their understanding of taught concepts.
- Become fluent in the fundamental concepts of maths and will experience varied, regular practice of these with increasing levels of difficulty.
- Have frequent opportunities to reason mathematically; discuss and challenge each other while justifying their answers.
- Have a positive view of maths, knowing that it is a vital life skill to be relied upon in daily life and as result, they will be ready for the next stage of their education.

Our pupils learn that maths in its many forms is vital to the world's future prosperity and know and believe that they play a significant part in this future.