



Maths at Park Grove Primary Academy

Our vision for maths at Park Grove is to make rich mathematical connections across the whole curriculum: promoting curiosity and enabling deep mathematical discussion in a range of contexts for **all** children. This approach ensures full access to the primary curriculum, enabling confidence and competence in mathematics.

At Park Grove we use a mastery based approach to teaching mathematics. Mastery involves the development of three forms of knowledge:

- Factual** – *I know that*
- Procedural** – *I know how*
- Conceptual** – *I know why*

Mastery of maths involves deep and sustainable learning where each child has the ability to build on something that has already been sufficiently mastered, the ability to reason about a concept and make connections and are exposed to a range of concepts to widen their knowledge across a range of enriching contexts. Mastery does not mean we don't consider the needs of each of our students. It means all students have access to the learning - some students may really deepen the concept. Differentiation comes through how deeply the students develop the concept.

Planning

All planning is based on the framework provided in the National Curriculum 2016 and the Early Years Outcomes document. The core objectives are broken down into long term plans for each year group (covering a year, split into 3 terms). These long-term plans are then broken down by the maths teachers into medium term plans, which will reflect the needs of a particular class. We use White Rose planning, NCETM spines and Maths No Problem textbooks to help provide a basic structure for maths planning, which is adapted and tailored for the children by all teachers. Reasoning is taught within the curriculum and we have a strong focus on basic skills.

Homework

To support learning, we include a variety of IT resources such as Times Table Rockstars, an interactive programme that the school has invested in to promote the importance of times tables in a fun and interactive way. Each week a Key Stage 2 'rock band' is chosen by teachers and celebrated in an assembly. MyMaths is used to support the children with home learning by providing them with support and assistance to complete homework tasks. A Key Stage 2 MyMaths club is run each week for those children who don't have access to the internet.



Useful Links

- www.ttrackstars.com
- www.mymaths.co.uk
- www.ncetm.org.uk – the government-funded body that provides training and resources in relation to the teaching for mastery approach.