

Maths

Intent

At Clara Grant, we believe that children should leave primary education as confident mathematicians with a deep conceptual understanding of the skills required to approach any maths problem. Maths is everywhere.

Throughout our lives, we need to make decisions informed by mathematical reasoning and therefore our children need to develop a deep grasp of mathematics. It is essential that children have the opportunity to see the links between maths and other subjects across the curriculum which form a solid base for building their knowledge.

We want our children to be successful in maths not only at school, but throughout their adult lives. Through carefully designed lessons, our teachers are able to make meaningful connections between content with a high emphasis placed on reasoning skills. As a result of this, our children are encouraged to use critical thinking to find solutions to problems. At Clara Grant we want to develop a culture of deep understanding, confidence and competence in maths which produces strong, secure learning and real progress.

Implementation

Mathematics at Clara Grant is planned and sequenced using White Rose. This ensures careful cumulative coverage. Once a topic is covered, it is met again many times in other contexts and this concept is then applied and connected throughout the school year to consolidate learning. This gives all pupils the opportunity to 'master maths'. Through building on previous learning throughout the school year, children are able to develop conceptual understanding.

Our maths provision at Clara Grant promotes confident mathematical fluency and this, along with times table knowledge, is taught, tested and celebrated across all year groups. We place a big emphasis on reasoning and using mathematical vocabulary. These skills are built up from EYFS, with carefully planned interactions eliciting verbal responses, all the way up to year 6, where children are expected to provide a written response explaining their reasoning.

Impact

It is imperative that the children have a secure understanding of each mathematical concept before they move on. At Clara Grant, we want our children to master the maths in every lesson, by ensuring that teachers are using assessment for learning to identify and address any misconceptions as and when they arise. We use a variety of strategies to evaluate the knowledge, skills and understanding that our children gain as they progress from Nursery to Year 6:

- CPD to ensure that teacher pedagogy and assessment is secure.
- Regular feedback marking and pupil voice feedback.
- Subject monitoring, including book looks and learning walks.
- Regular low stakes knowledge assessments, using a range of creative approaches.
- White Rose Tests and SATs papers to support our teachers' assessment in maths.

Teachers and TAs deliver targeted maths interventions based on pupil assessment to ensure that all children are ready to move on.

Enrichment

At Clara Grant, we take every opportunity to exploit mathematical learning across our curriculum offer. We practise and embed mathematical learning through our computing curriculum, where discrete coding is taught with explicit links to mathematics. Topic lessons are also closely planned with maths in mind to ensure children have the opportunity to explore maths through our alternative and creative approach to topics. Our children are exposed to investigations and problem-solving sessions which are presented through a real-life context. Maths enrichment activities at Clara Grant include:

- Athletics
- Mental Maths Challenge
- Lloyds Financial Literacy Programme
- Tagtiv8- Teaching maths through PE games
- Y6 Greater Depth Maths at our MAT Stepney Green Secondary School