Greenside Primary School
Inspire   Nurture   Challenge

Mathematics at Greenside

Intent

At Greenside, our goal is for pupils to deeply understand mathematics through the CPA approach (Concrete, Pictorial, Abstract), developing a passion for the subject and resilience as learners. We aim for fluency, reasoning, and precise use of mathematical language, ensuring our curriculum prepares pupils for future educational steps.

We encourage pupils to master concepts quickly and face challenging problems, while those needing reinforcement can solidify foundational knowledge before progressing. Continual revision and extension deepen and broaden their understanding as they advance through school.

Effective mathematical communication is crucial for justifying and discussing ideas, helping pupils solidify their knowledge and correct misunderstandings through enriched vocabulary and dialogue. Mathematics also supports learning in sciences and other subjects, integrating knowledge across disciplines.

For SEND pupils, we personalise the curriculum to address individual needs and ensure preparation for adulthood with quality life outcomes. Our flexible curriculum supports the development of knowledge and skills, promoting independence and maximising potential for all pupils, including those with SEND.

Implementation

At Greenside, our mathematics curriculum starts from the Early Years Foundation Stage (EYFS), blending the White Rose and EYFS frameworks to meet all mathematical requirements. Activities are designed to foster questioning and problem-solving skills, with daily teacher-led sessions that delve deeper into mathematical concepts using the Concrete, Pictorial, Abstract (CPA) approach.

From Year 1, we implement the White Rose Mathematics curriculum aligned with the National Curriculum, incorporating mastery techniques from the NCTEM and using the Ready to Progress criteria to tailor learning and cover any gaps. Each half term, planning outlines the topics, objectives, and essential vocabulary for that period. Our calculation policy guides teaching methods for addition, subtraction, multiplication, and division, emphasising a developmental CPA approach for a robust understanding of maths.

Pupils are expected to maintain neatness in their work: writing one digit per square, using pencils for diagrams, drawing margins from Year 2, and adhering to precise number formation and date formatting (dd.mm.yyyy). Feedback and marking are ideally done within the lesson, adhering to our marking and feedback policy.

Impact

Assessing the impact of the computing curriculum will happen in a variety of ways:

Observations: Observations enable the co-ordinator to see the learning process from whole class input, adult led activities, the opportunities provided in continuous provision in maths and how these are accessed and developed by the children. These happen on a formal and informal basis throughout the year.

Drop ins/Learning Walks: Learning walks/drop ins, involve staff moving between different groups of pupils for a purpose other than facilitating learning. The focus is to see how the White Rose Scheme and resources are being used and how children are supported and challenged within lessons.

Book Looks: Used to see progress across a unit of work, to see that policy is being implemented and to ensure that assessments are accurate and reflect deep and secure understanding of the children.

Policy Review: Maths Policy is reviewed annually considering national guidance and best practice.

Staff / Pupil Voice: An open door policy provides the staff and Maths Co-ordinator the opportunity to discuss teaching practice and any relevant updates.

Pupil voice: is obtained through informal conversations with children during learning walks and at other times during the day.

Assessment: Assessments are completed and achievements at the end of term are inputted into our tracking system to allow data to be analysed and determine future interventions. Formal assessments for each end of unit will be carried out further aiding teacher judgements topic by topic.