Maths

At Newstead we believe in aspiration and achievement for all

Intent – *what we aim to achieve*

Mathematics is an essential part of our curriculum, supporting pupils to develop their understanding of number, patterns, shape, space and measure, and how mathematics can be applied to everyday life. Through practical, hands-on, sensory and meaningful experiences, we provide opportunities for every pupil to explore mathematical concepts, develop confidence and experience success.

Our mathematics curriculum is carefully sequenced to meet pupils' individual needs and stages of development. Pre-formal pupils develop early mathematical understanding through sensory exploration, repetition, interaction and the development of early schemas. Semi-formal pupils follow the NCETM Mastering Number approach, drawing on the EYFS curriculum to develop foundational skills, including counting, subitising, pattern, comparison and early number sense. Formal pupils follow the NCETM approach, building on prior learning to develop fluency, reasoning and problem-solving through a carefully sequenced progression of mathematical knowledge and skills.

Through mathematics, we aim to develop pupils' communication, independence, problem-solving and reasoning skills, enabling them to recognise patterns, make connections and apply their mathematical understanding to meaningful, real-life experiences. We strive to ensure that all pupils develop the confidence and skills to use mathematics in everyday situations, supporting their independence and preparation for life beyond school.

Implementation - *how we will achieve our aims*

Carefully Sequenced Curriculum

Our mathematics curriculum is carefully sequenced to build on pupils' prior learning and individual developmental stages. Pre-formal pupils develop early mathematical understanding through sensory exploration and schema development. Semi-formal 1 and Semi-formal 2 follow learning informed by the NCETM Nursery and Reception curriculum, while Formal 1–6 follow the NCETM approach to develop progressive mathematical knowledge and skills.

Practical and Meaningful Learning

Mathematics is taught through practical, hands-on and engaging experiences. Concrete resources, visual representations, repetition and overlearning help pupils develop secure understanding and make connections between mathematical concepts. Learning is embedded into everyday routines and real-life experiences, including cooking, shopping, measuring and telling the time, to develop independence and functional skills.

Adaptive Teaching and Communication

Teaching is adapted to meet pupils' individual needs, ensuring learning is accessible, appropriately challenging and ambitious for all. Adults model mathematical concepts and vocabulary, provide scaffolding and encourage increasing independence. Visuals, objects, signing, communication aids and alternative communication methods support pupils to participate, express their understanding and develop mathematical language.

Assessment and Progression

Ongoing assessment informs planning and identifies pupils' strengths, misconceptions and next steps. Through observation, questioning, practical activities and assessment against individual learning outcomes and curriculum endpoints, teachers monitor progress and adapt teaching accordingly. Regular opportunities to revisit and apply prior learning support pupils to consolidate knowledge, develop fluency and progress towards greater mathematical understanding and independence.

Impact - *how we will know we have achieved our aims:*

We will know we have achieved our aims when pupils make measurable progress from their individual starting points, demonstrating increased mathematical knowledge, understanding and confidence. Through ongoing assessment, observations and progress towards curriculum endpoints, we will see pupils developing their mathematical skills, making connections, communicating their understanding and applying learning to meaningful, real-life situations. Success is reflected in pupils' growing engagement, independence and ability to use mathematics in ways that support their everyday lives and future independence.