

Maths Intentions

At Elton Primary School and Nursery, we have implemented a mastery approach placing emphasis on the cumulative mastery of essential knowledge and skills in mathematics, in order to deliver the three aims of the National Curriculum, fluency, reasoning and problem solving. Underpinning this pedagogy is a belief that all children can achieve in maths. We believe in promoting sustained and deepening understanding by applying a variety of mastery strategies. Our approach aims to provide all children with full access to the curriculum, enabling them to develop independence, confidence and mastery in mathematics in order to become fluent in the fundamentals of mathematics so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately. By the time they leave Elton Primary School and Nursery they will be confident, independent mathematicians who are well equipped to apply their learning to the wider world.

A high-quality education in Maths equips pupils to reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language. Pupils can solve problems by applying their mathematics to a variety of problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions. Key facts such as multiplication tables and addition facts within 10 are learnt to automaticity to avoid cognitive overload in the working memory and enable pupils to focus on new concepts. Practice and consolidation play a central role. Carefully designed variation within this builds fluency and understanding of underlying mathematical concepts.

The majority of children progress through the curriculum content at the same pace. Significant time is spent developing deep knowledge of the key ideas that are needed to underpin future learning. Pupils who fails to grasp a concept or

procedures will be identified quickly and early intervention ensures the pupil is ready to move forward.