



We are Mathematicians

At Woodlands, we aim to develop confident mathematicians who explore and use a wide range of representations and manipulatives to deepen their understanding. Children build their knowledge in small, carefully sequenced steps, making connections between prior learning and new concepts.

Intent

At Woodlands, we believe that every child can achieve success in mathematics. Our aim is to provide a high-quality, engaging curriculum that develops fluent, confident and resilient mathematicians who can reason, solve problems and make meaningful connections across different areas of maths. Through carefully sequenced learning, we help children recognise the value of mathematics in everyday life and the wider world, building the knowledge, skills and confidence they need for future learning and success.

Implementation

At Woodlands, mathematics is taught through a carefully sequenced, mastery-based curriculum that ensures clear progression from EYFS to Year 6. Lessons are designed to build on prior knowledge and introduce new concepts in small, manageable steps, allowing children to develop a secure understanding before moving on to more complex learning. We use Oak National Academy resources to support high-quality teaching and consistency across the school, ensuring that learning is aligned with national expectations and informed by best practice.

Our approach follows the concrete, pictorial and abstract (CPA) model, enabling children to explore mathematical concepts in a variety of ways. Through the use of practical equipment, visual representations and formal written methods, pupils develop a deeper understanding of mathematical ideas and are encouraged to make connections between different areas of learning. Children are given regular opportunities to explain their thinking, reason mathematically and apply their knowledge to a range of problem-solving contexts.

In EYFS and Key Stage 1, the Mastering Number programme plays a key role in developing strong number sense, fluency and confidence with number relationships. Alongside this, NumBots is used to support rapid recall of number bonds and key addition and subtraction facts, helping to establish the strong foundations needed for future mathematical success.

In Key Stage 2, children continue to develop fluency through the use of Ashley Down Times Tables and Times Tables Rock Stars, which support the rapid recall of multiplication and division facts. Secure times table knowledge enables pupils to approach more complex areas of mathematics with confidence and provides a strong foundation for reasoning and problem-solving.

Mathematical vocabulary is explicitly taught and modelled throughout lessons, enabling children to articulate their thinking, justify their methods and engage in meaningful mathematical discussion. Teachers use ongoing assessment to identify misconceptions and adapt teaching to meet the needs of all learners, providing appropriate support and challenge. Through this approach, we aim to develop confident, resilient mathematicians who enjoy learning, can think critically and are well prepared for the next stage of their education.

Impact

Children leave Woodlands as confident and capable mathematicians who enjoy learning mathematics and can apply their knowledge in a range of contexts. They demonstrate fluency in key number facts, reason logically using appropriate mathematical vocabulary, and approach problem-solving with perseverance and confidence.

Progression of skills and understanding is evident across the school, with children well prepared for the demands of secondary education. Impact is monitored through pupil voice, work scrutiny, formative assessment and summative data, ensuring high standards and positive outcomes for all learners.