OLA Curriculum Intent: Mathematics

Our aim is for pupils to develop a deep and connected understanding of mathematics, enabling them to become confident, fluent and resilient mathematicians. Through our mastery approach, pupils build secure mathematical knowledge and understanding over time, ensuring that concepts are understood in depth before moving on. They are taught to reason mathematically, solve problems efficiently and make connections between different areas of mathematics.

Fluency lies at the heart of our mathematics curriculum. Pupils are supported in developing automatic recall of key number facts and procedures, reducing cognitive load and allowing them to focus on reasoning and problem solving. Through daily fluency practice, pupils develop confidence with number, calculation and mathematical relationships, providing a secure foundation for future learning.

Our curriculum follows the Power Maths scheme, underpinned by a concrete–pictorial–abstract approach. Pupils are encouraged to explore mathematical concepts using practical resources, visual representations and discussion before moving towards abstract methods and efficient calculation strategies. Mathematical vocabulary is explicitly taught and revisited to ensure that pupils can communicate their thinking accurately and confidently.

The children have opportunities to engage with all areas of mathematics, including number, calculation, fractions, measurement, geometry and statistics. Through carefully sequenced learning, pupils are supported to make connections across mathematical concepts and apply their understanding in a range of contexts.

Our curriculum fosters a love of Mathematics by ensuring that pupils:

✅ Build knowledge — Developing secure understanding of number, calculation and mathematical concepts through a carefully sequenced mastery curriculum.

✅ Develop curiosity — Encouraging pupils to explore patterns, make connections, ask questions and think deeply about mathematical

ideas.

✅ Strengthen fluency — Supporting pupils to develop automatic recall of key facts and efficient calculation strategies through daily practice and retrieval.

✅ Become resilient problem solvers — Equipping pupils with the confidence to reason, explain, justify and apply their mathematical understanding to increasingly complex problems.

✅ Link Mathematics to Everyday Life — Helping pupils understand how mathematics is used to interpret the world, make decisions, solve problems and understand patterns around them.

✅ Connect learning to real-world careers — Showing pupils how mathematical thinking underpins a wide range of careers, including science, engineering, technology, finance, construction, healthcare and many other professions.

OLA Curriculum Intent:

Big Ideas in Mathematics

By connecting our learning in Reading to our Big Idea curriculum, pupils also develop a deep understanding of these abstract concepts. This approach supports the development of critical thinking, curiosity, and cross-disciplinary connections, equipping pupils with the skills and understanding they need to navigate the world around them and become the best version of themselves.

Community	How can mathematical thinking help us work collaboratively to solve problems, make informed decisions and improve the world around us?
Human Rights	How can mathematics help us identify inequality, challenge misconceptions and make informed judgements about the world?
Stewardship	How can using maths to explore patterns in nature, measure resources or think about sustainability help us reflect on our responsibility to care for the environment?
Resilience	How does tackling challenging problems, trying different strategies and learning from mistakes help us build resilience, confidence and perseverance as mathematicians?
Equality	How can exploring fairness, equal groups, equal parts and balanced equations deepen our understanding of equality in both maths and everyday life?
Health	How can using maths to explore time, movement, healthy choices or real-life data help us make informed decisions about our physical and emotional well-being?
Technology	In what ways can using mathematical thinking to understand patterns, coding, digital tools or data help us think creatively and critically about the modern world?
Wonder	How does exploring patterns, shapes, puzzles and surprising mathematical ideas nurture our sense of wonder, curiosity and joy in learning?