

MATHEMATICS AT THE OPEN ACADEMY

Our school vision “**Courage in every step, faith in every journey**”

Students will gain a deep and secure **knowledge** of mathematics, developing an understanding of how it helps us to interpret, describe, and make sense of the world around us. Throughout their time at Open Academy, students will build **confidence** through a broad, challenging, and carefully sequenced curriculum that strengthens fluency, reasoning, and problem-solving skills. A consistent focus on practice, retrieval, and application ensures **retention** of key concepts over time, enabling students to apply their mathematical understanding across a range of contexts. Students will learn to communicate their thinking clearly using precise mathematical language and, in turn, will grow into confident mathematicians who are willing to explore, question, and justify their ideas.

RESPECT	ASPIRATION	PERSEVERANCE
<p>Students will gain respect for the logic, structure, and universality of mathematics. They will learn to value multiple methods and approaches to problem solving and listen thoughtfully to the ideas of others.</p>	<p>Inspiring students to aim high by engaging them with rich mathematical problems that promote curiosity, ambition, and resilience. Students will be encouraged to take healthy risks, challenge themselves, and see mathematics as a powerful tool that can open doors to future opportunities and aspirations.</p>	<p>Children will learn to view mistakes as an essential part of the learning process, developing a growth mindset when faced with challenge. Through sustained practice, reasoning, and reflection, students will build resilience and determination, understanding that success in mathematics comes through effort, persistence, and confidence in their own ability to improve.</p>
SPIRITUALITY	GLOBAL CITIZENS	AWE AND WONDER
<p>Students will develop an appreciation for the deeper patterns, connections, and beauty within mathematics, recognising how it reveals order and structure in the world. They will be encouraged to reflect on these ideas, fostering curiosity and a sense of meaning beyond the subject itself. Through exploration and discussion, students will grow in confidence to think independently, consider different perspectives, and value the elegance of mathematical reasoning. A growth mindset will be nurtured, promoting reflection, perseverance, and resilience as they engage with challenging problems.</p>	<p>Students will recognise mathematics as a universal language that connects people, cultures, and societies across the world. They will explore how mathematics is applied in global contexts, from science to technology, whilst also developing an awareness of its role in addressing real-world challenges. Students will be encouraged to think critically and understand how their mathematical knowledge is present within everyday life.</p>	<p>Students will develop a genuine sense of awe and wonder through engaging with the richness, beauty, and creativity of mathematics. They will encounter surprising patterns, elegant solutions, and thought-provoking problems that spark curiosity and enjoyment. Through exploring concepts such as infinity—linked to the vastness of the universe—and patterns like the Fibonacci sequence found in nature, students will begin to see mathematics as a powerful way of understanding the world. By making these connections, we aim to nurture a lasting sense of wonder, empowering students to think critically, embrace challenge, and find joy in discovery.</p>