



Mathematics at Chilham

At Chilham St Mary's, mathematics is an integral part of our everyday lives, helping us to foster a caring environment where children can grow in confidence, motivation, and independence. Through the study of mathematics, we aim to equip students not only with the skills to succeed academically but also with the mindset to engage with the world around them in a thoughtful and respectful way.

We believe that mathematics teaches resilience and perseverance, encouraging pupils to take intellectual risks, learn from mistakes, and approach challenges with determination.

Our intent is that all children:

- Become fluent in the fundamentals of mathematics, ensuring that they have the skills and confidence to apply mathematical knowledge in various contexts, both inside and outside of the classroom.
- Reason mathematically by following a line of enquiry, using mathematical language to develop arguments, justifications, and proofs, thus deepening their critical thinking and moral reasoning.
- Solve problems with increasing sophistication, learning to break down complex problems into simpler steps and demonstrating perseverance, which fosters a sense of independence and personal responsibility.

This approach aligns with our school's goal of developing well-rounded individuals who understand their role in society and are motivated to contribute positively, applying mathematical skills in real-world situations with integrity and respect.

Implementation

At Chilham St Mary's, all teachers use the White Rose Maths Hub approach, which supports both the academic and personal development of each child. The use of Concrete-Pictorial-Abstract (CPA) learning ensures that all children can access mathematical concepts in a way that resonates with their individual learning needs. This helps foster independence as children gain the confidence to tackle challenges on their own.

We believe that mathematics also plays a key role in developing key social, moral, spiritual, and cultural (SMSC) values:

- Social: Collaborative problem-solving activities allow children to work together, share ideas, and learn the value of teamwork.
- Moral: Mathematics challenges children to think logically, make reasoned decisions, and appreciate the importance of accuracy and honesty in their work.
- Spiritual: The process of discovery in mathematics encourages reflection, personal growth, and the joy of learning, helping children develop a sense of awe and wonder in their work.
- Cultural: We aim to provide students with a global perspective of mathematics, recognizing that it is a universal language that connects people across cultures and communities.

Impact

By the end of their time at Chilham St Mary's, we aim for all pupils to leave with a solid foundation in mathematics, having developed not only academic fluency but also the personal qualities of confidence, resilience, and respect for others.

Through our curriculum, students will:

- Be confident in their ability to apply mathematical skills in real-life situations, having developed a strong sense of independence and self-belief.
- Be motivated to approach new challenges with curiosity and perseverance, equipped with the resilience to overcome obstacles.
- Demonstrate respect for others' ideas and approaches to problem-solving, valuing collaboration and diverse perspectives.
- Contribute positively to their community by using their mathematical reasoning to solve problems and make informed decisions, guided by moral and ethical considerations.

In this way, we aim to nurture lifelong learners who understand their social, moral, spiritual, and cultural responsibilities and are equipped with the skills and mindset to contribute positively to their communities and the world.