Mathematics Curriculum

Intent

Mathematics is a vital life skill that underpins many aspects of daily life, problem-solving, and critical thinking. At St. Austin's Catholic Primary School, we strive to provide an inclusive, engaging, and ambitious maths curriculum that develops confident, resilient, and inquisitive learners who see themselves as mathematicians.

Aligned with our Gospel Values, our curriculum nurtures creativity, perseverance, collaboration, and self-belief, ensuring that all children—regardless of ability—have access to high-quality teaching and learning opportunities. We aim for all pupils to:

- Develop fluency in arithmetic, reasoning, and problem-solving through daily practice and deep, sustainable learning.
- Build mathematical vocabulary progressively across year groups to articulate their thinking effectively.
- Make meaningful cross-curricular connections, particularly with science, technology, and finance, to see the relevance of maths in the real world.
- Engage in enrichment activities, such as STEM Week, real-life problem-solving projects to inspire a lifelong love for mathematics.
- Develop confidence to embrace challenges, knowing that struggle is part of learning, in alignment with our growth mindset ethos.
- Understand the historical and global significance of maths, including contributions from different cultures and its role in shaping society.
- Use digital tools and technology to explore mathematical concepts interactively, supporting our school-wide commitment to digital literacy.

At the core of our approach is the Concrete, Pictorial, Abstract (CPA) model, which ensures that all children develop a deep conceptual understanding of mathematics.

Implementation

To deliver our intent, we use a mastery-based approach that ensures a progressive, coherent journey through mathematics from Nursery to Year 6. Our curriculum is structured around the White Rose Maths Scheme and NCETM Ready to Progress materials, supplemented with high-quality resources and adapted to meet the diverse needs of our pupils.

Key Features of Our Implementation:

- High expectations for all learners – every child is supported to meet high standards in maths, with additional scaffolding for those who need it and deeper learning opportunities for those ready for greater challenge.
- A structured, sequenced curriculum – knowledge builds on prior learning, ensuring concepts are revisited and reinforced through retrieval practice.
- Vocabulary focus – key mathematical terms are explicitly taught and revisited across year groups to develop pupils' mathematical language and reasoning skills.
- Cross-curricular links – maths is integrated with:
    - Science (data handling, measurement, statistics)
    - Technology & Computing (coding, algorithms, patterns, spreadsheets)
    - Enterprise & Financial Education (money management, budgeting)
    - History & Geography (mathematical discoveries, coordinates, map skills)
- Assessment for Learning (AFL) – teachers use formative and summative assessments to inform planning, ensuring lessons are responsive to pupils' needs.
- Inclusion and adaptive teaching – children with SEND and those working below year-group expectations receive tailored support while still accessing whole-class learning.
- Technology-enhanced learning – interactive maths platforms and digital tools are used to enhance understanding and engagement.
- Enrichment opportunities – pupils engage in:
    - STEM Week Investigations
    - Financial Literacy Workshops
    - Maths Competitions and Real-World Problem-Solving Tasks
    - Maths and Art/Pattern Exploration Projects

Impact

The impact of our maths curriculum is reflected in the achievements, confidence, and enthusiasm of our pupils. By the time they leave St. Austin's Catholic Primary School, they will:

- Have a secure understanding of mathematical concepts, fluency in number skills, and the ability to apply their knowledge in problem-solving contexts.
- Be confident in using mathematical language to explain their reasoning and solutions.
- Recognise the real-world significance of maths and its connections to other subjects and everyday life.

- Have engaged in rich, memorable mathematical experiences that have fostered curiosity, creativity, and a love for learning.
- Be digitally literate in maths, with experience using technology for data analysis, coding, and financial calculations.
- Possess the resilience and self-belief to approach mathematical challenges with confidence, knowing they are equipped with the skills to succeed.

Our assessment processes, including ongoing formative feedback, retrieval tasks, and summative assessments, ensure that pupils make strong progress and that gaps in learning are addressed promptly.

Ultimately, we want our children to leave St. Austin's proud of who they are, confident in their mathematical ability, and ready for the challenges ahead.