



Maths Curriculum Rationale

Intent

At Oreston, we aim to foster a love for mathematics by developing confident, resilient, and curious learners who see the value of mathematics in their everyday lives. We aspire for every child to achieve mathematical fluency, reasoning, and problem-solving skills that equip them for the challenges of the wider world. By using Power Maths, a mastery-based approach, we ensure all pupils develop a deep and lasting understanding of mathematical concepts.

Implementation

Nursery/ EYFS

In the Early Years, mathematics is embedded in everyday learning through the 'Number' and 'Shape, Space, and Measure' areas of the curriculum. Children explore number and numerical patterns through hands-on activities, play-based learning, and discussions. Teachers create an environment that encourages curiosity and exploration, laying the foundation for mathematical thinking.

Key Stage 1

In KS1, we use Power Maths to ensure a structured and consistent approach to teaching. Lessons focus on developing fluency in number bonds, counting, and place value, alongside problem-solving and reasoning skills. Pupils are encouraged to use concrete manipulatives, pictorial representations, and abstract methods to develop a deep understanding of concepts.

Key Stage 2

In KS2, Power Maths continues to guide the curriculum, enabling pupils to build on their prior knowledge and delve deeper into more complex mathematical concepts. Children learn to:

- Justify and explain their reasoning using precise mathematical vocabulary.
- Apply their understanding to problem-solving scenarios across diverse contexts.
- Use bar models and other visual methods to support their conceptual understanding.

Throughout all year groups, teachers use formative assessments to identify gaps in knowledge and provide targeted interventions. Collaborative work, peer discussion, and

challenge tasks ensure all learners are engaged and supported, whether they need consolidation or greater depth opportunities.

Impact

By the time children leave Oreston Community Academy, they will have:

- Developed a secure understanding of mathematical concepts, ready to confidently progress to the next stage of education.
- The ability to approach challenges with resilience and apply their skills in real-world scenarios.
- Gained fluency in fundamental mathematical operations and problem-solving techniques.

Assessment data, pupil discussions, and their ability to use mathematical language to explain their thinking demonstrate the success of our approach. Maths at Oreston empowers pupils to view themselves as capable mathematicians, prepared for lifelong learning and application of their skills in diverse settings.