



# WORLINGHAM CEVC PRIMARY SCHOOL

## MATHS IMPLEMENTATION STATEMENT



The National Curriculum for mathematics aims to ensure that all children:

- Become **fluent** in the fundamentals of mathematics, through varied and frequent practice with increasingly complex problems over time, so that children have conceptual understanding and are able to recall and apply their knowledge rapidly and accurately.
- **Reason** mathematically by following a line of enquiry, exploring relationships and generalisations, and developing an argument, justification or proof using mathematical language.
- Can **solve problems** by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.

To achieve the above, our mathematics programme is driven towards developing pupils' confidence in **fluency, reasoning** and **problem solving**. Mathematics is implemented through a carefully structured approach that incorporates the following elements:

- **Curriculum Design:** We utilise the White Rose Maths scheme to ensure our curriculum is broad, balanced, and sequenced effectively. This mastery approach allows pupils to tackle complex problems and deepen their understanding through repeated exposure and practice. Each topic builds on prior knowledge and introduces new elements in a progressive manner. In combination with this, teachers use a 'spiral curriculum' approach to ensure that learning is revisited to ensure fluency and consolidation. 5-minute challenges, daily 10 and flashbacks are all strategies used in school to continuously revisit concepts throughout the year.
- **Quality First Teaching:** Our teaching staff are trained in high-quality pedagogical strategies that promote engagement and understanding of Mathematics. Lessons are interactive, using a variety of resources, including manipulatives, visual aids, and digital technologies to cater to diverse learning styles. Regular formative assessments inform planning and differentiation, ensuring that all pupils are suitably challenged.
- **Cross-Curricular Links:** We recognise the importance of contextual learning, and therefore, maths is linked to other subjects where applicable. Pupils are encouraged to see the relevance of mathematics in science, art, geography and everyday contexts. This interdisciplinary approach enhances engagement and deepens understanding.
- **The CPA approach:** Through a progression of concrete, pictorial and abstract approaches, the teaching of mathematics at Worlingham CEVC seeks to develop a deep and sustainable understanding of Maths in pupils.
- **Questioning:** Using statements such as: "Why do you think...", "Prove it!", "Convince me", "Can you tell me how?" and "What do you notice?" within lessons, this provides children with the opportunities to explore their reasoning skills and methods of solving problems.

**Growth mindset/Inclusion:** At Worlingham, we believe that all children are capable of achieving success in Mathematics. Children are taught to strengthen their resilience when it comes to problem solving activities; develop their fluency in the recall of number facts and have self-belief when explaining their approaches to reasoning questions and activities. Children's contributions to maths are celebrated and misconceptions are addressed positively with the understanding that we learn through our mistakes.

Belonging, Courage, Curiosity, Kindness, Perseverance, Respect

Growing Minds, Kind Hearts, Rooted in Love

'Rooted and Grounded in Love' (Ephesians 3:16)