



Mathematics



East Harptree C of E Primary School and Ubley C of E Primary School

Our Vision

Our vision is for all children to have a positive, 'I can do' attitude towards maths and become fluent, confident and resilient mathematicians.

Intent

The intent of our mathematics curriculum is to provide learning which is accessible to all children. It is important that our children enjoy and are excited about their learning and develop a curiosity about maths in school as well as in the world around them.

Our Key Principles:

- We believe maths is a subject that all children can do.
- We believe that maths should be fun, engaging and rewarding for everyone.
- Fluency, reasoning and problem solving are at the heart of our curriculum.
- Our desire is for all children to become competent mathematical thinkers who are confident in making connections.
- We support children in their understanding of key mathematical concepts through the use of a variety of representations and models, including concrete, pictorial and abstract.

Implementation

Maths lessons are taught based on the mastery approach. The curriculum is mapped out using the White Rose Maths Hub scheme of work to ensure coverage and progression of skills. Topics are taught in extended blocks to support mastery of concepts, which are carefully sequenced to ensure the retention of skills and knowledge.

We are currently embedding 'Teaching for Mastery' within our schools which include the following key principles as set out by the NCETM

- Devoting more time to the introduction of key concepts
- Focusing on one key idea only per lesson

- Keeping the whole class together
- Concentrating on pupils' thinking (as well as doing)
- Anticipating difficult points and misconceptions
- Choosing representations and models carefully
- Planning questioning carefully
- Expecting and supporting precise explanations and reasoning from pupils
- Applying variation theory
- Intervening quickly to support those falling behind

The Essence of Maths Teaching for Mastery, NCETM

Key features of mastery maths lessons in our schools:

- Children use of the **correct mathematical vocabulary** and answer in full sentences.
- We carefully design lessons to ensure **all** children access rich, problem-solving tasks, applying the mastery principles of coherence, variation, representation and structure, mathematical thinking and fluency.
- All children experience CPA (concrete, pictorial and abstract) when learning new concepts.
- Whole class/year group teaching.
- Rapid, same or next day intervention to ensure children 'keep up' and secure skills before moving on.
- Daily fluency lessons take place (Number sense, number facts, times tables).