

Curriculum Overview - Maths

INTENT

At Milton-on-Stour Primary School we believe that our maths curriculum should create enthusiastic, creative and articulate mathematicians. Through a varied and inspiring curriculum we aim to develop the children's problem solving, resilience and reflective skills – skills that can be easily transferrable across our curriculum and fit with our vision of developing character skills. We believe that fluency is key. Children need to have a secure understanding of basic principles in order to deepen their knowledge of the maths curriculum further. Through our rigorously planned curriculum, children are encouraged to challenge themselves through the use of critical thinking and efficient and effective approaches to problems that they may face. Children are encouraged to make mistakes in a safe and supportive environment. They are supported to discuss these misconceptions with their peers and staff. We place oracy at the heart of our learning through shared work and class discussions. Use of appropriate vocabulary is modelled throughout lessons by both staff and children, allowing everyone to 'talk like a mathematician'. Only once a child can articulate their understanding of a concept, can they truly begin to make connections within their learning.

Our teaching of mathematics equips pupils with knowledge and understanding to:

- Become resilient and reflective learners
- Approach everyday problems with confidence
- Think critically and ask questions
- Use sequences, pattern and measures to make sense of the world around them
- Use their assured skills of oracy to explain their mathematical thinking;
- Use numbers, counting and calculation accurately and proficiently

We want our children to enjoy their learning and immerse themselves in mathematics, gaining knowledge and skills, not just through experiences in the classroom, but also through everyday problem solving, visitors and real life experiences on educational visits including our 11 before 11.

IMPLEMENTATION

We have created our own mixed age medium term planning in line with the class group mixes in our school to ensure firm foundations and sequence of learning, ensuring that pupils in mixed age and split classes have access to appropriate learning objectives. To help structure and plan our maths lessons we have access to White Rose Maths Hub materials. This is enriched using a range of resources and to deepen understanding using website materials such as

NCETM, Classroom Secrets and Nrich. To supplement our learning, pupils have access to Times Tables Rockstars both at home and at school to support the recall of multiplication tables so that pupils are fluent by the end of year 4.

Pupils in EYFS and key stage one access the NCETM Mastering Number programme which focuses on mental recall skills, allowing our pupils to begin their schooling with a solid recognition of number.

IMPACT

We measure the impact of our maths curriculum in a number of ways including

- Key stage one SATs results
- Key stage two SATs results
- Year 4 Multiplication Tables Check results
- Internal and external book moderations to ensure the teachers have the skills to assess the work accurately and to national standards
- End of term Puma assessments in years 1-6
- Multiplication and mental maths tests and TT Rockstars Scores
- Termly book and planning scrutiny
- Class observations and drop ins
- Discussions with pupils
- Pupils and parent questionnaires
- Formative assessment that takes place during lessons and verbal and written feedback given to children, which then informs future planning