

I am a mathematician

Intent

At Frome Vale we believe that all children can achieve in mathematics and that there is no such thing as a 'maths person'. We aim for all children to be able to say 'I am a Mathematician'. As such, we intend for all children to leave Frome Vale feeling like confident and competent mathematicians by ensuring maths lessons are creative, challenging and exciting. At Frome Vale we intend to:

- Ensure our children have access to a high-quality maths curriculum that is both challenging and enjoyable, and tackles misconceptions.
- Provide our children with a variety of mathematical opportunities, which will enable them to make the connections in learning needed to enjoy greater depth in learning.
- Involves generalising about pattern and relationships
- Ensure children are confident mathematicians who are not afraid to take risks.
- Fully develop independent learners with inquisitive minds who have secure mathematical foundations and an interest in self-improvement.
- Ensure children have strong mental maths skills
- Ensure children know 'why' as well as 'how'

Implementation

A typical Maths lesson will provide the opportunity for **all** children, regardless of their current attainment, to work through Fluency, reasoning AND Problem-Solving activities. In each lesson there will be opportunities for children to practice mental calculation as well as building conceptual understanding through carefully designed activities, that build on previous knowledge and understanding. Maths is therefore progressive and cumulative.

Lessons provide an open context for discussion and investigation. The Academy uses a variety of teaching and learning styles in mathematics lessons. Our main aim is to develop children's knowledge, skills and understanding. We do this through a daily lesson that has a high degree of challenge and plenty of opportunity to apply new and existing skills. During lessons we encourage children to ask as well as answer mathematical questions. They have the opportunity to use a wide range of resources such as number lines, number squares, digit cards, Numicon, Base 10 and small apparatus to support their work and their thinking. Children and teachers use ICT in mathematics lessons where it will enhance their learning, and to assist with modelling ideas and methods. Wherever possible, we encourage the children to use and apply their learning in everyday situations.

Impact

Children at Frome Vale will be able to:

- Quickly recall of facts and procedures
- Have the flexibility and fluidity to move between different contexts and representations of mathematics.
- Use intelligent practice – 'If I know this, then I know this...'
- Recognise relationships and make connections in mathematics
- Explain ideas in a concise and mathematical way
- Feel like mathematicians
- Achieve national standards and above,
- To enjoy maths.