

What does Mathematics look like at Vicarage Primary School?

The mathematics teaching at Vicarage Primary School is geared towards enabling each pupil to develop within and above their capabilities, to meet the demands of the curriculum. This is achieved by providing an ambitious yet supportive maths curriculum for all pupils. We want our pupils to develop their mathematical skills and understanding required for later life and also create an enthusiasm and fascination about maths itself.

We aim to increase pupils' confidence in maths so they are able to express themselves and their ideas using the language of maths with assurance. Through use of our spiralling curriculum approach, we encourage the development of fluency, problem solving and reasoning in well-structured daily maths lessons, which are engaging, challenging and embed a mastery approach. At Vicarage we consistently aim to raise the standards of achievement for all our pupils regardless of their starting point.

In order to ensure consistency of teaching, we have developed a long term and medium term plan that feeds into our daily lessons. Our EYFS use the band targets set within the National Curriculum to plan and assess children. Years 1 to Year 5 use Maths No Problem scheme and adapt where necessary to meet the needs of our children. In Year 6, we use the objectives set out in the National Curriculum to plan our own unit of work that is challenging and helps children in the transition to the next stage in their education.

Our Mathematics curriculum is based on three key concepts that intertwine throughout all the strands of maths:

- Fluency
- Reasoning
- Problem solving

These concepts are the drivers that underpin the teaching and learning within each area. They provide a system to deepen the knowledge and understanding within all the strands of Maths. It also paves way for our pupils to master the subject and deepen their understanding.

What do the children enjoy about Maths at Vicarage Primary School?

'Our maths lessons are fun and exciting'

'I love using TTR and World Maths Day. We dress up and do lots of different challenges with different teachers'

'In maths my teacher lets me choose my challenge. I like doing hot challenges because it makes me feel smart'

'Friday's celebration assemblies is always exciting – winners for TTR are announced and we get our rewards for times table

Maths at Vicarage School

Examples of learning and enrichment activities at Vicarage Primary School.

- World Maths Day
- Times table/ number bond testing and rewards
- TTR weekly awards based on home learning and competitions
- Access to Google Classroom where children are challenged through home learning activities.
- Maths working walls in every classroom
- World of Work Week: exploring maths in our community
- Maths intervention to help children achieve targets

Reasons for learning Maths

Mathematics introduces pupils to concepts, skills and thinking strategies that are essential in everyday life and support learning across the curriculum. It helps children make sense of the numbers, patterns and shapes they see in the world around them, offers ways of handling data in an increasingly digital world and makes a crucial contribution to their development as successful learners.

Mathematics offers children a powerful way of communicating. They learn to explore and explain their ideas using symbols, diagrams and spoken and written language. They start to discover how mathematics has developed over time and contributes to our economy, society and culture.

Studying mathematics stimulates curiosity, fosters creativity and equips pupils with the skills they need in life beyond school.

At Vicarage, we believe Mathematics is a journey. Our long-term goals are achieved through exploration, clarification, practice and application over time. At each stage of learning, pupils should be able to demonstrate a deep, conceptual understanding of the topic and be able to build on this over time. Our mastery approach to teaching enables us to achieve this for our pupils.

We monitor the teaching and learning of Maths through:

- ✓ **Assessment** – Three termly summative assessments
Weekly arithmetic and times table testing
- ✓ **Feedback Marking** - AFL in every lesson using a variety of strategies. Every day marking (teacher/ self-assess). Next step once a week
- ✓ **Pupil conferencing** – Are children happy, engaged, motivated to do well, challenged? Do they know more? Can they remember more?
- ✓ **Book Looks** – Are all children making at least sufficient progress from their various starting points?
- ✓ Images and videos of pupil's practical learning.
- ✓ **Lesson Visits** – Quality of teaching and learning is good to outstanding
- ✓ **Parent surveys** – Are parents happy with the curriculum we provide, if not – how can we improve?
- ✓ **Subject portfolio** – Can you see progression of skills and knowledge across the school? Is the curriculum ambitious and goes beyond the National Curriculum?
- ✓ **Learning environment** – Is it rich in language to support children's learning? Does it support independence? Does it promote pride in their work and high standards of presentation?