



# Maths at St Bartholomew's CE (VC) Primary School

## Maths at St Bartholomew's

### Intent

The intent of the maths curriculum at St Bartholomew's is to ensure every child becomes an enthusiastic mathematician by developing their skills, knowledge and understanding through a practical, mastery approach. We believe it is vital for children to develop their number skills to be life-long learners.

The maths curriculum allows children to make connections across mathematical concepts in order to develop their fluency, reasoning and problem solving skills, as well as apply this knowledge to other curriculum areas.

We want to create an environment which encourages mathematical risk-taking, creativity and logical thought to develop independent learners. We want to create an environment which supports children in developing resilience and perseverance when faced with challenges.

At St Bartholomew's, our whole school maths intent is that:

- everyone can do maths
- mistakes help us learn
- we value all student contributions; right or wrong
- the process is the most important element
- we should have a range of mathematical strategies to use appropriately and employ
- knowing multiplication tables and number facts is crucial
- we should frequently make connections between maths topics
- we should relate maths to real life situations

### Implementation

At St Bartholomew's we follow the National Curriculum. We implement our approach through high quality mastery teaching from the Early Years Foundation Stage to Year 6. Children begin their mathematical learning journey with us in Reception, by securing strong foundations in number through the NCETM 'Mastering Number' resources. This provides children with the key knowledge and understanding to progress to KS1 and to support success in the future.

In KS1 and KS2, the White Rose Maths small steps are used to support teachers in planning and delivering our approach to high quality mastery teaching. To allow creativity and teacher autonomy, we supplement White Rose Maths with a variety of high quality resources (NCETM, NRICH etc.) to support children in securing a strong conceptual understanding of the different skills appropriate for their year group.

We believe the Concrete, Pictorial and Abstract (CPA) approach to mathematics teaching is highly effective for all pupils to secure a deep understanding of mathematical concepts. Problem solving and reasoning challenges children to apply their conceptual understanding before accessing new content. Children who are not yet fluent with the conceptual understanding have opportunity to consolidate their understanding through further practise.



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To improve mathematical fluency at St Bartholomew's, children have daily opportunities to practise and develop key number facts and multiplication facts, whilst also revisiting previous content.

We continuously monitor pupil progress through summative and formative assessment which informs our subsequent teaching and pupil learning. The main purpose of all mathematics assessment is to ensure we are providing high quality provision for every child to achieve their best.

**We use the C.P.A approach, which gives children the opportunity to build competency.**

**Concrete**-children should have the opportunity to use concrete objects to help them understand what they are doing.

**Pictorial**- alongside this children should use pictorial representations. These representations can then be used to help reason and solve problems.

**Abstract**- both concrete and pictorial representations should support children's understanding of abstract methods

### Impact

As children progress through St Bartholomew's, they develop a deep and sustainable understanding of number. The progression of the curriculum supports children to make connections to previous learning and further deepen their understanding and appreciation for mathematical concepts. Our children have a Growth Mindset and face challenges with resilience and make personal progress through their determination to strive.

**As a result of our Maths teaching at St Bartholomew's you will see:**

- **Engaged children who are all challenged.**
- **Confident children who can all talk about Maths and their learning and the links between Mathematical topics.**
- **Lessons that use a variety of resources to support learning.**
- **Different representations of mathematical concepts**

What do the children at St Bartholomew's say about maths?



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I feel excited about maths because it is my favourite subject. Y4

I feel ok when I get stuck in maths because I know my teacher will help me. Y5

Revisits are where we refresh our minds on a topic we have already done. Y6

Fluency is where we practice our maths. Y2

When I get stuck in maths I persevere. My teacher gives me support and help when I need it. Y4

Fluency is about doing maths independently. Y6

When I get stuck I can use number lines or rekenreks. Y2