



Maths Education at Hempsted C of E Primary School

Mathematics is a subject that provides the tools and skills to solve problems and make sense of the world. Through our mathematics curriculum, we will provide pupils with the mathematical knowledge to understand the world and succeed in everyday life. We also develop in our pupils the skills of problem solving, resilience and perseverance, which are essential to becoming a successful learner. We use the knowledge of the curriculum and skills of problem solving to develop pupils who reason mathematically and work collaboratively to overcome problems.

Our Big Ideas

To achieve this, our curriculum will pay particular focus to the following 'big ideas':

Big Idea One: Fluency. To be able to understand the relationships between areas of mathematics; make connections; be able to calculate and solve problems, pupils must be fluent in the fundamentals of mathematics. Through the use of models and images that develop conceptual understanding and frequent practice, pupils build a bank of known facts that they are able to recall quickly and accurately. Leaving pupils with the capacity to solve more complex problems.

Big Idea Two: Reasoning and problem solving. Children need to be able to apply their understanding of mathematical concepts to solve problems, making generalisations, justify and prove their observations. They need to encounter the concepts they are taught in a variety of routine and non-routine problems.

Big Idea Three: Collaboration and resilience. The curriculum must provide pupils with problems that challenge both their knowledge and character. Mathematics provides the opportunity for pupils to work in partnership to tackle a problem, fail and try again. Through problems we aim to build resilience and perseverance.

How it is taught (Implementation)

At Hempsted, five hours of mathematics is taught each week to all classes in KS1 and KS2. The concepts that are being taught are modelled using images and concrete resources that help pupils visualise and understand the concept. Pupils will then have the opportunity to first practise the new learning before being challenged to apply their understanding in a different context or situation. Pupils are then challenged to solve problems to deepen their understanding and application of new learning.

We call this process 'do it, apply it, solve it.'

Developing Spirituality through Maths

The exploration of pattern simple pattern to the complexity of sequences and number provide opportunities to wonder. The sense of self-fulfilment that comes from solving a problem helps to develop our sense of self-worth and gratitude for the gifts and abilities we have been given by God.

Please click here to find the [White Rose Maths National Curriculum Progression Years 1-6](#)