

Pimperne Primary School has been fully engaged with the new Mathematics curriculum since September 2014, and we've been very happy with the way in which the children have embraced the new approach to deepening their understanding of Maths.

Mathematics is a tool for everyday life. It teaches children how to make sense of the world around them through developing their ability to calculate, reason and solve problems. It enables children to understand relationships and patterns in both number and space in their everyday lives.

It is essential to everyday life, critical to science, technology and engineering, and necessary for financial literacy and most forms of employment. A high-quality mathematics education therefore provides a foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of mathematics, and a sense of enjoyment and curiosity about the subject.

Mathematics is an interconnected subject in which pupils need to be able to move fluently between representations of mathematical ideas. The programmes of study are, by necessity, organised into apparently distinct domains, but pupils should make rich connections across mathematical ideas to develop fluency, mathematical reasoning and competence in solving increasingly sophisticated problems. They should also apply their mathematical knowledge to science and other subjects.

The national curriculum for mathematics aims to ensure that all pupils:

- become fluent in the fundamentals of mathematics, including varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately**
- reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing**

an argument, justification or proof using mathematical language

- **can solve problems by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions**

In addition, at Pimperne Primary School we aim:

- **To enable pupils to be proficient, competent and confident with numbers, shapes and measures, and to have the ability to solve routine and non-routine mathematical problems.**
- **To foster positive attitudes towards mathematics by developing pupils confidence in using mathematical equipment and vocabulary and through developing their mental strategies.**
- **To develop the ability to communicate mathematically**
- **To develop an understanding of mathematics through a process of enquiry and experiment**

Mathematics teaching is in line with the new national curriculum in Years 1 to 6 and the Revised Early Years curriculum in the EYFS.

The highest priority will be given to the teaching and consolidation of mental strategies

Teachers will take every opportunity to ask open questions.

They will probe and challenge answers and, where appropriate, ask for alternative strategies or explanations.

They will seek to ensure that every child has the opportunity to use and apply their mathematical knowledge and a regular basis.

Teachers will respond to individual needs by carefully targeted questioning.

Teachers will devise work which, although differentiated, will seek to include every child in the class.

Teachers will use a range of computer resources to enhance their Maths teaching and the children will be given regular access to computers to reinforce and consolidate their Mathematical learning. These resources include Sumdog, Mathletics and BBC Bitesize.