

The Whitchurch CE Federation

The Inquisitive Me - Mathematics

'Without mathematics, there's nothing you can do. Everything around you is mathematics. Everything around you is numbers.' Shakuntala Devi

Intent

The intent of the Maths Curriculum is to instil the qualities of the Inquisitive Me; developing pupil's **problem solving, reasoning, questioning** and **curiosity**, and creating a love of mathematics.

We intend to support the National Curriculum in its aims to ensure that all pupils:

- become fluent in the fundamentals of mathematics, including through 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 (**curiosity**), conjecturing relationships and generalisations (**questioning**) 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.

Implementation

In EYFS, teachers use the mastering maths scheme of learning as well as providing pupils with rich and varied opportunities to explore maths in a practical, real-life way as a part of the Curiosity Approach.

In Years 1 -6, each year group's long term plans are taken from Power Maths. Through high quality teaching using the Power maths schemes of learning, we enable pupils to progress through the National Curriculum in small steps, whilst developing their confidence and competence in mathematics.

The Power Maths approach focuses on maths mastery — pupils are taught to fully grasp topics and develop a deep understanding of foundational concepts. Using a spacing and interleaving strategy, pupils are provided with the opportunities to revisit these concepts, taking their understanding deeper each time. As a result, pupils benefit from improved learning retention and they develop the qualities of curiosity, questioning, reasoning and problem solving - which will stay with them for life.

Impact

It is the intended impact of the Maths Curriculum that children at The Whitchurch CE Federation:

- become fluent in the fundamentals of mathematics.
- 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.
- be inspired by Maths and want to learn more.

The impact of the curriculum is measured by:

- Teacher assessments, completed at the end of each lesson
- Summative assessments carried out once per term
- Pupil Voice discussions of their learning with the subject leader
- Regular lesson observations and learning walks