Maths Curriculum statement

Intent

At Ecton Village Primary Academy, our aim is 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, 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.

Implementation

Children study mathematics daily covering a broad and balanced mathematical curriculum including elements of number, calculation, geometry, measures and statistics. Teachers use the Whiterose long term plan to ensure that they meet all areas of the curriculum and supplement this curriculum with other resources such as those from Nrich.

Times tables test are completed frequently and the teaching of timestables is supported by TT Rockstars.
Misconceptions are reviewed daily in lessons and throughout the week with purple pen, this is either done independently or with an adult.
To build fluency, understanding of vocabulary and to use a consolidation opportunity the children regularly complete problem solving or reasoning activities.
All classroom displays include vocabulary and posters to show how to solve different areas of maths all year round. This allows the children to have a constant reminder of how to solve problems.

Each lesson begins with a re-cap of prior learning and throughout each lesson formative assessment takes place and feedback is given to the children through marking and next step tasks to ensure they are meeting the specific learning objective. Teachers use this assessment to influence their planning and ensure they are providing a mathematics curriculum that will allow each child to progress.

Pupils who grasp concepts rapidly will be challenged through being offered rich and sophisticated problems before any acceleration through new content. Those who are not sufficiently fluent with earlier material will consolidate their understanding, including through additional practice, before moving on.

Impact

By the end of KS2 we aim for children to be fluent in the fundamentals of mathematics with a conceptual understanding and the ability to recall and apply knowledge rapidly and accurately. They should have the skills to solve problems by applying their mathematics to a variety of situations with increasing sophistication, including in unfamiliar contexts and to model real-life scenarios. Children will be able to reason mathematically by following a line of enquiry and develop and present a justification, argument or proof using mathematical language.