Lane End Primary School

Vision for Mastery in Mathematics

At school Lane End Primary School we encourage our pupils to develop their knowledge and understanding of mathematics so that they are able to grow into confident mathematicians who enjoy and achieve in their learning.

We aim that all pupils:

- Become fluent in the fundamentals of mathematics so that they develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.
- Can solve problems by applying their mathematics to a variety of problems with increasing sophistication, including unfamiliar contexts and real-life scenarios.
- Can reason mathematically by following a line of enquiry and develop and present a justification, argument or proof using mathematical language.
- Can use the language of mathematics accurately; discussing their learning with confidence and precision.

Our definition of mastery:

Mastering maths means pupils acquiring a deep, long term, secure and adaptable understanding of the subject.

Mastery is not just being able to memorise key facts and procedures. Mastery means being able to use one's knowledge appropriately, flexibly and creatively and to apply it in new and unfamiliar situations.

For all maths concepts, teachers need to ensure that children are 'challenged through being offered rich and sophisticated problems.' After developing secure fluency, children need to show that they can apply their knowledge in mathematics in a range of contexts moving on further for greater depth and mastery.

Mastery teaching and learning at Lane End Primary:

In mathematics lessons you will see:

- Teachers, Learning Leaders and children showing the belief that all can achieve and a growth mindset.
- Clear learning objectives and intentions. All adults and children understand what they are learning and where that learning 'sits'.
- Well planned lessons which follow a small detailed step approach to teaching.
- Teachers adapting learning within the lesson to support the progress of all learners.
- Mathematical terminology being used accurately and confidently to explain learning and understanding.
- Concrete resources, models and images used effectively to support mathematical learning.
- Working walls which enable and support mathematical learning.
- Adapted learning so that all pupils are challenged and learning can be extended.
- Talk Matters strategies and structures used to teach, promote and enhance the use of mathematical vocabulary and language.
- Application of skills and knowledge to non-standard situations.

Teaching for Mastery

