

# Maths at Coxheath

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PARENT WORKSHOP

FRIDAY 21<sup>ST</sup> JANUARY 2022

# Our Vision

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- Enjoyment of the subject
- Feeling successful
- Change Mindsets
- Resilience
- Feel confident in their mathematical abilities

# What is Mastery?

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Achievable for all

**Deep** and sustainable learning

The ability to build on something that has already been sufficiently mastered

The ability to reason about a concept and make connections

High expectations for every child

Fewer topics covered in greater depth

Number sense and place value come first

Challenge is provided through an increased depth, rather than acceleration of content.

# Ofsted Framework

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EYFS & KS1 – Focus on number sense and mental strategies

Lower KS2 – Formal algorithms/ methods

Upper KS2 – Application and problem solving

# White Rose Year 1 – Year 6

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## Teaching for Mastery

These overviews are designed to support a mastery approach to teaching and learning and have been designed to support the aims and objectives of the new National Curriculum.

The overviews:

- have number at their heart. A large proportion of time is spent reinforcing number to build competency
- ensure teachers stay in the required key stage and support the ideal of depth before breadth.
- ensure students have the opportunity to stay together as they work through the schemes as a whole group
- provide plenty of opportunities to build reasoning and problem solving elements into the curriculum.

## Concrete - Pictorial - Abstract

We believe that all children, when introduced to a new concept, should have the opportunity to build competency by taking this approach.

**Concrete** – children should have the opportunity to use concrete objects and manipulatives to help them understand what they are doing.

**Pictorial** – alongside this children should use pictorial representations. These representations can then be used to help reason and solve problems.

**Abstract** – both concrete and pictorial representations should support children's understanding of abstract methods.

# Mastering Number

EYFS, Year 1, Year 2

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This project aims to secure firm foundations in the development of good number sense for all children from Reception through to Year 1 and Year 2. The aim over time is that children will leave KS1 with fluency in calculation and a confidence and flexibility with number. Attention will be given to key knowledge and understanding needed in Reception classes, and progression through KS1 to support success in the future.

# Times Tables

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Knowing times tables facts is crucially important to your child's progression in their mathematics education.

Without a thorough understanding of multiplication and division facts, the Maths curriculum can become increasingly difficult for children.

Many mental maths activities and tests require a quick recall of multiplication and division facts.

Children who are secure in their multiplication knowledge are able to grasp concepts at a quicker pace and are far more successful.

Year 2 – 2x, 5x, 10x

Year 3 – 3x, 4x, 8x

Year 4 – 6x, 7x, 9x, 11x, 12x

# Supporting your children at home

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- Number bonds, addition and subtraction facts
- Multiplication and Division facts
- Positive attitude towards mathematics
- Communication with Class Teacher
- White Rose Website
- Nrich – Problem Solving Activities
- Telling the time, using money, measure



# Questions

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