

Teaching for Mastery is 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 stages 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 time to build reasoning and problem solving elements into the curriculum.

Concrete – Pictorial – Abstract

As a school we believe that all students, when introduced to a key new concept, should have the opportunity to build competency in this topic by taking this approach.

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

Pictorial – students should then build on this concrete approach by using pictorial representations. These representations can then be used to reason and solve problems.

Abstract – with the foundations firmly laid, students should be able to move to an abstract approach using numbers and key concepts with confidence.



Maths

Progression in Measurement, Geometry & Statistics

Year 4

If you require any examples,
please contact the class teacher.

Measurement – using measures

- Convert between different units of measure (e.g. kilometre to metre; hour to minute)
- Estimate, compare and calculate different measures

Measurement – money

- Estimate, compare and calculate different measures, including money in pounds and pence

Measurement – time

- Read, write and convert time between analogue and digital 12- and 24-hour clocks
- Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days

Measurement – perimeter, area, volume

- Measure and calculate the perimeter of a rectilinear figure (inc. squares) in centimetres and metres
- Find the area of rectilinear shapes by counting squares

Geometry – 2d & 3d shapes

- Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes
- Identify lines of symmetry in 2d shapes presented in different orientations

Geometry – angles & lines

- Identify acute and obtuse angles and compare and order angles up to two right angles by size
- Identify lines of symmetry in 2d shapes presented in different orientations
- Complete a simple symmetric figure with respect to a specific line of symmetry

Geometry – position & direction

- Describe positions on a 2d grid as coordinates in the first quadrant
- Describe movements between positions as translations of a given unit to the left/right and up/down
- Plot specified points and draw sides to complete a given polygon

Statistics

- Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs
- Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs