

Year 5: Mathematics

The national curriculum for mathematics 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, 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.

Key performance indicator	Performance standard
Key performance indicator Number and place value Reads, writes, orders and compares numbers to at least 1,000,000 and determines the value of each digit Interprets negative numbers in context, counts forwards and backwards with positive and negative whole numbers including through zero Addition and subtraction (inc statistics) Adds and subtracts whole numbers with more than four digits, including using formal written methods (columnar addition and subtraction) Numbers mentally with increasingly large numbers (eq. 12.462 - 2.300	Performance standard With reference to the KPIs By the end of Y5, a child should be fluent in formal written methods for addition and subtraction. Using a developing knowledge of formal methods of multiplication and division, a child should be able to solve problems including properties of numbers and arithmetic
 Number of the second second	 A child can: make connections between fractions, decimals and percentages; classify shapes with geometric properties and use the vocabulary needed to describe them; and read, spell and pronounce mathematical vocabulary correctly.