

Mathematics KPIs Year 5

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

- *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 (e.g. $12,462 - 2,300 = 10,162$)

Multiplication and Division

- *Identifies multiples and factors including finding all factor pairs of a number and common factors of two numbers
- *Solves problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates

Fractions and Decimals

- *Compares and orders fractions whose denominators are all multiples of the same number
- *Reads and writes decimal numbers as fractions e.g. $0.71 = 71/100$
- *Reads, writes, orders and compares numbers with up to three decimal places
- *Solves problems which require knowing percentage and decimal equivalents of $1/2$, $1/4$, $1/5$, $2/5$, $4/5$ and those fractions with a denominator of a multiple of 10 or 25

Eden Park Primary and Nursery School

Measurements

- *Converts between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)
- *Measures and calculates the perimeter of composite rectilinear shapes in centimetres and metres
- *Calculates and compares the area of rectangles (including squares), and including using standard units, square centimetres (cm^2) and square metres (m^2)

Geometry: properties of shape

- *Draws given angles and measures them in degrees ($^\circ$)
- *Distinguishes between regular and irregular polygons based on reasoning about equal sides and angles

Geometry: position and direction

- *Covered in year 6

Statistics

- *Completes, reads and interprets information in tables, including timetables

Mathematics Performance Standards Year 5

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

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.

