Clarendon Primary School

'Doing our best to achieve our best'

Year 5

Maths End of Year Expectations

This booklet provides a summary of the most significant end of year expectations for children in Year 5 in Mathematics.

The end of year expectation objectives are worked on throughout the year and will be the focus of direct teaching. Any extra support you can provide in helping your children to achieve these is greatly valued.

If you have any queries regarding the content of this booklet or want support in knowing how best to help your child, please talk to your child's teacher.

Year 5 End of Year Expectations for Mathematics

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)
- Add and subtract numbers mentally with increasingly large numbers (eg 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 using a knowledge of factors and multiples, squares and cubes
- Solves problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates

Fractions (including decimals)
- Compares and orders fractions whose denominators are all multiples of the same number
- Reads and writes decimal numbers as fractions eg 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

Measurement
- Converts between different units of metric measure (eg 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 (cm2) and square metres (m2)

Geometry: Properties of shape
- Draws given angles and measures them in degrees (°)
- Distinguishes between regular and irregular polygons based on reasoning about equal sides and angles

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

There is increased focus on children being able to **reason mathematically** by following a line of enquiry and verbalising their justification or proof using mathematical vocabulary. They should be able to **solve problems** to a wide range of problems with increasing sophistications, including breaking down problems into a series of simpler steps and persevering to find a solution.