Enfield Academy of New Waltham

Eagle Class Y5/6

Medium Term Plan – Maths – Spring Two

ONGOING:

Children will complete mental arithmetic, basic skills, reasoning, problem solving and times tables activities throughout each week to deepen and consolidate essential mathematical skills.

Main Learning Focus:

Year 5

Percentages (4 sessions)

- recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal
- solve problems which require knowing percentage and decimal equivalents of 1/2, ¼, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25.

Fractions B (5 sessions)

- multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams
- find fractions of amounts and quantities

Perimeter and area (6 sessions)

- measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres
- calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes

Statistics (4 sessions)

- solve comparison, sum and difference problems using information presented in a line graph
- complete, read and interpret information in tables, including timetables.

Angles (4 sessions)

- know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles
- measure angles in degrees

Year 6

Percentages (4 sessions)

- recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
- calculate percentages

Perimeter and area (6 sessions)

- recognise that shapes with the same areas can have different perimeters and vice versa
- calculate the area of parallelograms and triangles

Shape and coordinates (4 sessions)

- describe positions on the full coordinate grid (all four quadrants)
- draw and translate simple shapes on the coordinate plane, and reflect them in the axes

Volume (2 sessions)

- recognise when it is possible to use formulae for area and volume of shapes
- calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending to other units [for example, mm3 and km3].

Number – Algebra (4 sessions)

- use simple formulae
- generate and describe linear number sequences
- express missing number problems algebraically
- find pairs of numbers that satisfy an equation with two unknowns
- enumerate possibilities of combinations of two variables.

Angles (6 sessions)

- draw 2-D shapes using given dimensions and angles
- recognise, describe and build simple 3-D shapes, including making nets
- compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
- illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
- recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.