Age Related Expectations

Year 5 – Maths

Key performance indicator (KPIs)	Performance standard
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 (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;	*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; read, spell and pronounce mathematical vocabulary correctly.

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.

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 (0);
 Distinguishes between regular and irregular polygons based on reasoning about equal sides and angles.

Geometry: position and direction
 Covered in Y6.

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