SOUTHROP C OF E PRIMARY SCHOOL - YEAR 6 MATHEMATICS EXPECTATIONS

6	1	Place Value	**I can read, write, order and compare numbers up to 10,000,000 and determine the value of each digit**
6	2	Place Value	**I can round any whole number to a required degree of accuracy**
6	3	Place Value	**I can use negative numbers in context, and calculate intervals across 0**
6	4	Addition and subtraction	**I can multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication**
6	5	Addition and subtraction	**I can divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context**
6	6	Addition and subtraction	**I can divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context**
6	7	Multiplication and division	**I can identify common factors, common multiples and prime numbers**
6	8	Fractions	**I can use common factors to simplify fractions; use common multiples to express fractions in the same denomination**
6	9	Fractions	**I can compare and order fractions, including fractions >1**

6	10	Fractions	**I can add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions**
6	11	Fractions	**I can multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, ¼ x ½ = ⅛]**
6	12	Fractions	**I can divide proper fractions by whole numbers [for example, ⅓ ÷ 2 = ⅙]**
6	13	Fractions	**I can associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8]**
6	14	Fractions	**I can multiply one-digit numbers with up to 2 decimal places by whole numbers**
6	15	Ratio and Proportion	**I can solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison**
6	16	Algebra	**I can use simple formulae**
6	17	Algebra	**I can generate and describe linear number sequences**
6	18	Measure	**I can use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 decimal places**
6	19	Measure	**I can recognise that shapes with the same areas can have different perimeters and vice versa**
6	20	Measure	**I can calculate the area of parallelograms and triangles**

6	21	Measure	**I can calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm^3) and cubic metres (m^3), and extending to other units [for example, mm^3 and km^3]**
6	22	Geometry	**I can draw 2-D shapes using given dimensions and angles**
6	23	Geometry	**I can recognise, describe and build simple 3-D shapes, including making nets**
6	24	Geometry	**I can compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons**
6	25	Geometry	**I can illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius**
6	26	Geometry	**I can recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles**
6	27	Geometry	**I can describe positions on the full coordinate grid (all 4 quadrants)**
6	28	Geometry	**I can draw and translate simple shapes on the coordinate plane, and reflect them in the axes**
6	29	Statistics	**I can interpret and construct pie charts and line graphs and use these to solve problems**
6	30	Statistics	**I can calculate and interpret the mean as an average**