SOUTHROP C OF E PRIMARY SCHOOL - YEAR 5 MATHEMATICS EXPECTATIONS

5	1	Place Value	**I can read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit**
5	2	Place Value	**I can interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0**
5	3	Place Value	**I can round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000**
5	4	Place Value	**I can read Roman numerals to 1000 (M) and recognise years written in Roman numerals**
5	5	Place Value	**I can add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)**
5	6	Multiplication and division	**I can identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers**
5	7	Multiplication and division	**I can know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers**
5	8	Multiplication and division	**I can multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers**

5	9	Multiplication and division	**I can divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context**
5	10	Multiplication and division	**I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000**
5	11	Multiplication and division	**I can recognise and use square numbers and cube numbers, and the notation for squared (^{2}) and cubed (^{3})**
5	12	Fractions	**I can compare and order fractions whose denominators are all multiples of the same number**
5	13	Fractions	**I can identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths**
5	14	Fractions	**I can recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for**
5	15	Fractions	**I can add and subtract fractions with the same denominator, and denominators that are multiples of the same number**
5	16	Fractions	**I can multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams**
5	17	Fractions	**I can read and write decimal numbers as fractions [for example, 0.71 = 71/100**
5	18	Fractions	**I can round decimals with 2 decimal places to the nearest whole number and to 1 decimal place**
5	19	Fractions	**I can read, write, order and compare numbers with up to 3 decimal places**

5	20	Fractions	**I can recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per 100', and write percentages as a fraction with denominator**
5	21	Measure	**I can convert between different units of metric measure [for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram;**
5	22	Measure	**I can measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres**
5	23	Measure	**I can calculate and compare the area of rectangles (including squares), including using standard units, square centimetres (cm^2) and square metres**
5	24	Geometry	**I can identify 3-D shapes, including cubes and other cuboids, from 2-D representations**
5	25	Geometry	**I can draw given angles, and measure them in degrees (°)**
5	26	Geometry	**I can use the properties of rectangles to deduce related facts and find missing lengths and angles**
5	27	Geometry	**I can distinguish between regular and irregular polygons based on reasoning about equal sides and angles**
5	28	Geometry	**I can identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed**
5	29	Statistics	**I can solve comparison, sum and difference problems using information presented in a line graph**
5	30	Statistics	**I can complete, read and interpret information in tables, including timetables**