**Mathematics Year 1 – Programme of Study Descriptors**

**Number and Place Value:**

Pupils should be taught to:

* count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number
* count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens
* given a number, identify one more and one less
* identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least
* read and write numbers from 1 to 20 in numerals and words.

**Number – Addition and Subtraction:**

Pupils should be taught to:

* read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs
* represent and use number bonds and related subtraction facts within 20
* add and subtract one-digit and two-digit numbers to 20, including zero
* solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 =   – 9.

**Number – Multiplication and Division:**

Pupils should be taught to:

* solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.

**Number – Fractions:**

Pupils should be taught to:

* recognise, find and name a half as one of two equal parts of an object, shape or quantity
* recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.

**Measurement:**

Pupils should be taught to:

* compare, describe and solve practical problems for:
  + lengths and heights [for example, long/short, longer/shorter, tall/short, double/half]
  + mass/weight [for example, heavy/light, heavier than, lighter than]
  + capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]
  + time [for example, quicker, slower, earlier, later]
* measure and begin to record the following:
  + lengths and heights
  + mass/weight
  + capacity and volume
  + time (hours, minutes, seconds)
* recognise and know the value of different denominations of coins and notes
* sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]
* recognise and use language relating to dates, including days of the week, weeks, months and years
* tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.

**Geometry – Properties of Shape:**

Pupils should be taught to:

* recognise and name common 2-D and 3-D shapes, including:
  + 2-D shapes [for example, rectangles (including squares), circles and triangles]
  + 3-D shapes [for example, cuboids (including cubes), pyramids and spheres].

**Geometry – Position and Direction:**

Pupils should be taught to:

* describe position, direction and movement, including whole, half, quarter and three-quarter turns.