## Maths Progression of Knowledge and Skills

## Year 1

Place Value	Addition and Subtraction		Multiplication and Division		Fractions
<ul> <li>Count – Aut 1, Aut 4, Spr 2, Sumr 4</li> <li>count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number</li> <li>Count numbers to 100 in numerals; count in multiples of twos, fives and tens</li> <li>Represent – Aut 1, Aut 4, Spr 2, Sumr 4</li> <li>identify and represent numbers using objects and pictorial representations</li> <li>read and write numbers to 100 in numerals</li> <li>read and write numbers from 1 to 20 in numerals and words</li> <li>Use Place Value and Compare – Aut 1, Spr 1, Spr 3, Sumr 4</li> <li>given a number, identify one more and one less</li> </ul>	20, including zero Problems – Aut 2 • solve one-step p subtraction, using	t one-digit and two digit numbers to	division, by calculating the answer u objects, pictorial representations ar support of the teacher	ising concrete	Recognise and Write – Sumr 2 • 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
Ratio and proportion, algebra		Measurement		Geometry	
Algebra - Aut 2, Spr 2 • solve one-step problems that involve addition and su concrete objects and pictorial representations, and mi problems such as 7 = 2−9 Note – although formal algebraic notation is not introd algebraic thinking starts much earlier as exemplified b number' objectives from Y1/2/3	ubtraction, using ssing number duced until Y6, y the 'missing	Using measures – Spr 4, Spr 5, Sum r • compare, describe and solve practic Ø lengths and heights Ø capacity and volume • measure and begin to record the fo Ø lengths and heights Ø capacity and volume Money – Sumr 5 • recognise and know the value of dif notes Time – Sumr 6 • sequence events in chronological or before and after, next, first, today, ye afternoon and evening] • recognise and use language relating week, weeks, months and years • tell the time to the hour and half pa a clock face to show these times	cal problems for: Ø mass/weight Ø time llowing: Ø mass/weight Ø time (hours, minutes, seconds) ferent denominations of coins and rder using language [for example, esterday, tomorrow, morning, to dates, including days of the	(including squares), 3-D Shapes – Aut 3 • recognise and nar (including cubes), p Position and Direct	direction and movement, including whole, half,

## Year 2

Place Value	Addition and Subtraction	Multiplication and Division	Fractions
<ul> <li>any number, forward and backward</li> <li>Represent – Aut 1</li> <li>read and write numbers to at least 100 in numerals and in words</li> <li>identify, represent and estimate numbers using Different representations, including the number line</li> <li>Use Place Value and Compare – Aut 1</li> <li>recognise the place value of each digit in a two-digit number (tens, ones)</li> <li>compare and order numbers from 0 up to 100; use &lt;,</li> </ul>	including those involving numbers, quantities and	the 2, 5 and 10 multiplication tables, including recognizing odd and even numbers • show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot	Recognise and Write – Sumr 2 • recognise, find, name and write fractions $\frac{1}{3}, \frac{1}{4}, \frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity Compare – Sumr 1 Recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$ Calculations – Sumr 1 • write simple fractions from example $\frac{1}{2}$ of 6 = 3
Ratio and proportion, algebra	Measurement	Geometry	Statistics
calculations and solve missing number problems Note – although formal algebraic notation is not introduced until Y6, algebraic thinking starts much earlier as exemplified by the 'missing number' objectives from Y1/2/3	and record the results using >, < and = Money – Spr 1	<ul> <li>identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]</li> <li>compare and sort common 2-D shapes and everyday objects</li> <li>3-D Shapes – Aut 3</li> <li>recognise and name common 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]</li> </ul>	<ul> <li>Present and Interpret Data – Sumr 3</li> <li>interpret and construct simple pictograms, tally charts, block diagrams and simple tables</li> <li>Solve Statistical Problems – Sumr 3</li> <li>ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity</li> <li>ask and answer questions about totalling and comparing categorical data</li> </ul>