MATHS TREES OF KNOWLEDGE AND SKILLS PROGRESSION
KS1 – NUMBER – PLACE VALUE AND FRACTIONS

	Year 1			Year 2		
	Autumn Term	Spring Term	Summer Term	Autumn Term	Spring Term	Summer Term
Knowledge	• Know how numbers to 10 are represented • Know one more and one less than any number to 10 • Know and understand the language of: equal to, more than, less than (fewer), most, least • Know what the words 'order' and 'compare' mean • Know what the signs G q and = represent • Know what is meant by a 'part-whole' model • Know how to represent values to 10 within a part-whole model	• Know how numbers to 20, and then to 50, are represented • Know one more and one less than any number to 20, then to 50 • Know how to represent values to 50 within a part-whole model • Revisit knowledge and understanding of the language of; equal to, more than, less than (fewer), most, least • Revisit knowledge of what the signs G q and = represent • Know how many 'Tens' and how many 'Ones' are in a number up to 20, then up to 50 • Know how to represent values to 20 within a part-whole model	• Know how numbers to 100 are represented in numerals and in words • Know one more and one less than any number to 100 • Know how many 'Tens' and how many 'Ones' are in a number up to 50, then up to 100 • Know that a whole can be divided into equal parts and that these are called 'fractions' • Know what is meant by a half and a quarter and that each part must be equal	• Re-visit knowledge of how numbers to 100 are represented in numerals and in words • Revisit knowledge of how many Tens and how many Ones are in a number, up to 100 • Know how to represent values to 100 within a part-whole model • Know how to use a place value chart	• Know how to partition two digit numbers in different ways (with different combinations of tens and ones) • Know that on a scale numbers can be presented in different divisions - ones, twos, fives, tens and hundreds • Re-visit knowledge of ½ and ¼ • Know what is meant by a third (1/3) • Know that ½ and $^2/_4$ are equivalent fractions • Know the difference between a unit fraction and a non-unit fraction	• Know the place value of each digit in a two digit number (Tens, Ones)

Skills	• Count to and across 20, forwards and backwards, beginning with 0 or 1 • Count to and across 20, forwards and backwards, from any number • Count in multiples of tens to 100 • Identify and represent numbers using objects and pictorial representation, including the number line to 10 • Use the language of; equal to, more than, less than (fewer), most, least • Use >, < and = signs to compare and order numbers to 10 • Read and write numbers 1 to 10 in numerals. • Read and write numbers 1 to 10 in words	• Count to and across 50, forwards and backwards, starting from 0 or 1 • Count in 2s to 50 • Count in multiples of fives and tens, to 100 and back • Identify and represent numbers using objects and pictorial representation, including the number line to 50 • Re-visit use of the language of; equal to, more than, less than (fewer), most, least • Use >, < and = signs to compare and order numbers to 20, then to 50 • Read and write numbers 1 to 50 in numerals • Read and write numbers 1 to 20 in words	• Count to and across 100, forwards and backwards, beginning with 0 or 1 • Count to and across 100, forwards and backwards, from any number • Count in multiples of twos, fives and tens • Identify and represent numbers using objects and pictorial representation, including the number line to 100 • Read and write numbers 1 to 100 in numerals • Re-visit reading and writing numbers 1 to 20 in words • Use >, < and = signs to compare and order numbers to 50, then to 100 • Halving shapes and objects • Finding half of a quantity • Making, finding and recognising a quarter of a shape or object • Find a quarter of a quantity	• Revisit counting forwards & backwards, to and across 100, from any number • Count in 2s, 5s and 10s • Compare numbers within 50 • Count in 3s • Count objects to 100 • Revisit reading and writing numbers in numerals to 100 • Write numerals in words to 50 • Use a place value chart • Compare sets of up to 100 objects • Compare numbers, to 100, using > , < and = signs • Order objects and numbers within 100	• Revisit counting forwards & backwards, to and across 100, from any number • Revisit counting in 2s, 3s, 5s and 10s – forwards and backwards • Re-visit reading and writing numbers in numerals to 100 • Write numbers to 100, in words • Read scales in divisions of ones, twos, fives and tens • Partition two digit numbers into different combinations of tens and ones, explaining their thinking verbally, in pictures or using apparatus • Use concrete manipulatives and real life objects to make, find and recognise a half • Use concrete manipulatives and real life objects to make, find and recognise a quarter • Use concrete manipulatives and real life objects to find and recognise a third • Count in fractions	• Identify, represent and estimate numbers using different representations including the number line • Compare and order numbers from 0 up to 100 • Use >, < and = signs to compare and order numbers to at least 100 • Use place value and number facts to solve problems • Count in steps of 2, 3 and 5 from 0, and in tens from any number, forwards and backwards