Curriculum Road Map

Maths- Number

EYFS

Skills	Knowledge	Challenge
Can count reliably from 1-20 and place numbers in order. Can add and subtract two single digit numbers using objects. Can solve problems including doubling, halving and sharing.	Know which number is one more and one less than any given number up to 20. Know halves and doubles of single digit numbers using objects.	Can estimate a number of objects and check quantities by counting to twenty. Can solve practical problems that involve combining groups of 2, 5 or 10 or sharing into equal groups.

Year 1

Challenge	Knowledge	Skills
Pupils can represent numbers in tens and ones. Instant recall of number bonds to 20. Be able to calculate expanded number sentences for addition and subtraction. Drawing arrays for multiplication and division independently. Count in other combinations (3s, 4s).	Know how to use equal to, more than, less than (fewer), most, least. Know how to identify and represent numbers Know how to represent and use number bonds and related subtraction facts within 20. Know how to add and subtract one-digit and two-digit numbers to 20, including zero. Know how to read, write and interpret mathematical statements (+, -, =). Know how to recognise, find and name a half and a quarter of objects, shapes and quantities.	Can count, read and write numbers to 100 in numerals and 1-20 in words. Can count in twos, fives and tens. Can count to and across 100 backwards and forwards from any given number and identify one more and one less. Can solve one-step problems that involve addition and subtraction, multiplication and division, using concrete objects and pictorial representations, and missing number problems.

Year 2

Skills	Knowledge	Challenge
Can count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward. Can recognise place value (tens, ones) and use this and number facts to solve problems. Can read and write numbers to at least 100 in numerals and words. Can solve problems with addition and subtraction Can add and subtract numbers using concrete objects, pictorial representations, and mentally. Can solve problems involving multiplication and division Can recognise, find, name and write fractions (thirds, quarters). Can write simple fractions and recognise the equivalence.	Know how to use ‹, › and = sign. Know how to identify, represent and estimate numbers using different representations. Know how to compare and order numbers from 0- 100 Know and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Know that addition of two numbers can be done in any order and subtraction cannot. Know how to recognise and use the inverse to check calculations and solve missing number problems. Know multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers Know mathematical statements for multiplication and division using correct signs (x ÷ =) Know how to show that multiplication of two numbers can be done in any order but division cannot.	Can predict sequences when counting in 2s, 5s, and 10s. Can use mental strategies for all number calculations (including blank number line). Can solve expanded missing number problems (18 +? = 28 – 9) Can use reasoning about numbers and relationships to solve more complex problems. Can solve unfamiliar word problems that involve more than one step and justify their answers.

End of KS1

Whiteheath Infant and Nursery School