

# MATHS

# PROGRESSION:

## Place Value

### Key:

Counting

Reading & Writing Numbers

Identifying, Representing & Estimating Numbers

Understanding Place Value

Comparing Numbers

Rounding

Problem solving & Reasoning

◆ Read, write and understand the value of decimal numbers to 3.d.p

◆ Round any whole or decimal number to any required degree of accuracy

◆ Solve routine and non-routine problems involving number

◆ Count in a variety of different intervals up to 10,000,000 including in intervals of tenths, hundredths and thousandths

◆ Read and interpret Roman Numerals with increasing difficulty

## YEAR 6

◆ Use negative numbers in context

◆ Read, write and order numbers to 10,000,000 and understand the value of each digit

◆ Compare numbers up to 10,000,000

◆ Divide and multiply using powers of 10 and understand what effect this has on the value of the number

## YEAR 4

◆ Round numbers to nearest 10, 100,1000

◆ Round numbers to nearest whole number and tenth (explore with numbers up to 2.d.p)

◆ Find 1000 more and less than a given number

◆ Compare and order decimal numbers up to 2.d.p—link to fractions

◆ Problem solve using positive, negative and decimal numbers (up to 2.d.p)

◆ Read and write Roman numerals up to 100

◆ Recognise the PV of numbers up to 4-digits and the effect of dividing and multiplying values by powers of 10

## YEAR 5

◆ Count in varying intervals forward and backward from positive and negative numbers

◆ Count in power of 10 intervals up to 1,000,000

◆ Read, write and order numbers up to 1,000,000, identify where there is 0 value in any place holder

◆ Compare numbers to 1,000,000 with increasing sophistication and difficulty

◆ Round numbers to nearest 0.1, 1, 10, 100, 1000, 10,000, 100,000 and 1,000,000

◆ Read, write and apply understanding of Roman Numerals up to 1000

◆ Count, order and compare decimal numbers up to 3.d.p.

◆ Solve routine and non-routine problems involving numbers up to 1,000,000, decimal numbers up to 3.d.p and negative numbers.

## YEAR 3

◆ Count from 0 in multiples of 4, 8, 50 and 100

◆ Find 10 more and 10 less than a given value

◆ Compare and order numbers to 1000

◆ Read, identify and write numbers in words to 1000

◆ Recognise the PV in any 3-digit number

◆ Solve routine and non-routine problems involving PV

## YEAR 1

◆ Understand what is meant by one more and one less

◆ Compare and order numbers to 100

◆ Count from different starting values in intervals of 2,5 and 10 (count back)

◆ Apply knowledge to different contexts; quantities, amounts and measure

◆ Count forward to 100 reliably from varying starting points (count back)

◆ Count in varying intervals of 2,5 and 10s

## YEAR 2

◆ Count reliably with numbers from 1 to 20, forward and back

◆ Given a number explain/show what makes it that number (use a variety of objects)

◆ Subitise with number; recognise patterns and make connections (numbers to 20)

◆ Recall and memorise number bonds to 20

## RECEPTION

◆ count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward

◆ Compare numbers to 100 using the signs  $<$   $>$   $=$

◆ Estimate and order numbers on a number-line

◆ Recognise the place value of each digit in a two-digit number

◆ Use place value knowledge to solve routine and non-routine problems

◆ Compare and prove using objects to show the understanding of value and the links between numerals and actual quantities