MATHS PROGRESSION: **Place Value**

- 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 ٠ < > =
- Estimate and order numbers on a numberline
- 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
 - 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

Key:

Counting

Reading & Writing Numbers

Identifying, Representing & Estimating Numbers

Understanding Place Value

Comparing Numbers

Rounding

- **Problem solving & Reasoning**
- Count backwards through 0 to include negative numbers
- Count in multiple of 6, 7, 8, 9, 25 and 1000
 - Round numbers to nearest 10, 100,1000
 - Round numbers to nearest whole number and tenth (explore with numbers up to 2.d.p)

YEAR 4

- 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

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

- Count in varying intervals of 2,5 and 10s
- Understand what is meant by one more and one less
- Compare and order numbers to 100

- 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 10,000,000 including in intervals of tenths, hundredths and thousandths

Read and interpret Roman Numerals with increasing difficulty

- numbers
- in any place holder
- 1.000.000
- Count from 0 in multiples of 4, 8, 50 and 100
- ♦ Find 10 more and 10 less than a given value

◆ Count from different starting values in inter-

• Apply knowledge to different contexts; quan-

vals of 2,5 and 10 (count back)

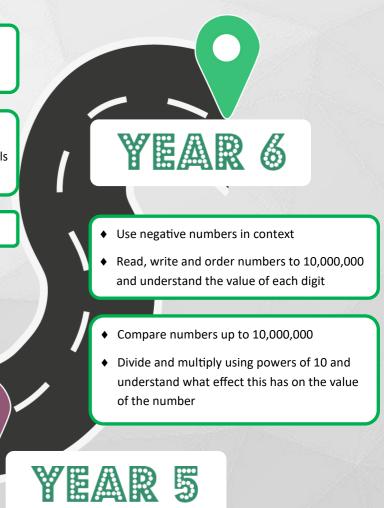
tities, amounts and measure

YEAR

Compare and order numbers to 100

3

- Read, identify and write numbers in 1000
 - Recognise the PV in any 3-digit
 - Solve routine and non-routine p volving PV



• Count in varying intervals forward and backward from positive and negative

• 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

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

Round numbers to nearest 0.1, 1, 10, 100, 1000, 10,0000, 100,000 and

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.

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