



FERNDALE PRIMARY
SCHOOL

Stage 5 -Number Programme of Study Objectives

Comment

Number – Number and place value

Interpret negative numbers in contexts, count forwards and backwards with positive and negative numbers through 0

Count forwards and backwards in steps of powers of 10 for any number to 1,000,000

Identify, represent and estimate numbers using different formats (up to 1,000,000)

Read Roman numerals to 1000 (I-M)

Read, write, order and compare numbers to at least 1,000,000

Determine the value of each digit up to 1,000,000

Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000

Number - Addition and Subtraction

Practice mental and written methods with large numbers to increase fluency

Add and subtract more than 4 digits efficiently (written) including decimals

Use rounding to check answers and calculations (+/-)

Number – Multiplication and Division

Identify multiples and factors including all factor pairs and common factors of 2 numbers

Know and use prime numbers, prime factors and composite (non-prime) numbers

Recall prime numbers up to 100

Recognise square and cubed numbers and the notation for squared and cubed

Multiply $ThHTU \times U$ and $ThHTU \times TU$ using an efficient written method

Multiply numbers mentally using known facts

Divide numbers mentally using known facts

Divide numbers up to 4 digits by a one digit number using an efficient written method

Interpret remainders in context

Multiply and divide whole numbers and decimals by 10, 100 and 1000

Scale by simple fractions and simple rates

Number – Fractions (including decimals)

Write mathematical statements >1 as a mixed number e.g. $\frac{3}{5} + \frac{1}{5} = \frac{6}{5} = 1 \frac{1}{5}$

Compare and order fractions whose denominators are all multiples of the same number

Recognise mixed numbers and improper fractions and convert from one to another

Add and subtract fractions with the same denominator beyond 1 whole and related fractions

Multiply proper fractions and mixed numbers by whole numbers

supported by materials and diagrams	
Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	
Read and write decimal numbers as fractions e.g. $0.71 = 71/100$	
Round decimals with 2 d.p. to the nearest whole and the nearest 1 d.p.	
Read, write, order and compare numbers with up to 3 d.p.	
Multiply and divide numbers by 10, and 100 giving the answers with up to 3 d.p.	
Recognise the % symbol and understand it relates to the number of parts per 100	
Write % as fractions with denominators of 100 and as a decimal	
Algebra	
Use simple formulae	
Generate and describe linear number sequences	
Express missing number problems algebraically	
Find pairs of numbers that satisfy an equation with two unknowns	
Use two variables to find all possibilities combinations	