



Mathematics Medium Term Plan

Year 4 Autumn Term Unit 1 Place Value

Focus: Number/Place Value

Time: 4 weeks

Times Tables 3NF-2 4NF-1

6x table – recall multiples, missing numbers, division facts, fractions
Count in 9s

R2P: Check 3NPV, 4NPV-1, 4NPV-2, 4NPV-3, 4NPV4

Divide 1000 into 2,4,5 and 10 equal parts – scales/number lines

NC:

Find 1000 more/less than a given number.

Recognise the place value of each digit in a 4 digit number (thousands, hundreds, tens, ones).

Order and compare numbers beyond 1000.

Identify, represent and estimate numbers using different representations.

Round any number to the nearest 10, 100 or 1000.

Solve number and practical problems that involve all of the above and with increasingly large positive numbers.

Count in 6s, 7s, 9s, 25s, 1000s

Concept Sequence

Represent Numbers to 1,000 – base 10, counters.

Hundreds, Tens and Ones – part-whole model. Expanded form.

Number line to 1000 – vary intervals.

Thousands - Count in 1000s – introduce 4 digit numbers. Explore thousands using concrete and pictorial representations. Note that 1000 is made up of ten hundreds. Count in multiples of 1000, representing numbers in numerals and words. Base 10. Counters in a Tens frame.

Represent numbers to 1000. 1000s 100s 10s 1s - use a place value grid/Gattengo charts – explore relationships both ways. To show 4 digit numbers. Move on from base 10 to place value counters and digits.

Partitioning to 10000 - explore partitioning in more than one way to assist with addition and subtraction later. Use numerals/words/expanded form.

Flexible partitioning to 10000. Use counters/base 10 to support. Important to understand exchange in add/subtract later.

Find 1/10/100/1000/1000 more/less – to 4 digits. Use a variety of ways (counters, base 10, numerals).
Could recap 1/10/100 first as separate recap step and look at 1000 separately before mixing.

Number Line to 10000 - label and draw numbers. Count forwards, backwards, in equal steps from both sides. Number lines should be with/without start/end numbers or with numbers already placed there.

Estimate on a number line to 10000. Identify mid-points.

Compare 4 digit numbers - use vocabulary and symbols. Use concrete manipulative, draw pictorially and write using numbers. Place numbers in columns/vertically – look at largest value first.

Order 4 digit numbers in ascending/descending order. Find the smallest/largest number from a set. Write vertically/columns – look at largest value first.

Round to nearest 10 - look at 2 digit numbers on a number line, apply to three digit numbers.

Round to nearest 100 - compare with rounding to ten, use knowledge of multiples of one hundred.

Round to nearest 1000 – know which multiples of 1000 a number sits between. Look at digits in hundreds column.

Existing Vocabulary

Number, numeral, none, Zero, One, two, three....9,999.

How many...?

Count, count to/up to, count on, count on from, count on to, count back, count back from, count back to

Forwards/Backwards

Count in ones, twos, fives, tens, threes...

Equal to, Equivalent to

Is the same as

More, less, Most, least, many, tally

Multiple of

Sequence, continue, predict, Odd, even

Few, pattern, pair, rule

Ones, tens, hundreds, digit

One/two/three-digit number

Place, place value, Stands for, represents exchange

The same number as, as many as

More, larger, bigger, greater

Greater than/less than

Fewer, smaller, less, fewest, smallest, least

Most, biggest, largest, greatest

One more/less, Ten more/less

Compare, size, order

First, second.....

Last, last but one, next, between, half-way between, above, below

New Vocabulary

Ten thousand, Count in 6s, 7s, 9s, 25s
1000s, Next, consecutive, Integer

1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000
100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9

Jack has two 1,000 counters and three 100 counters.



What 4-digit numbers can he make?

Planning Links

Maths No Problem/Aspire Maths

White Rose Scheme of Work:

<https://assets.whiterosemaths.com/new-schemes/Y4%20Autumn%20Block%201%20SOL%20Place%20value.pdf>

NCETM: <https://www.ncetm.org.uk/teaching-for-mastery/mastery-materials/primary-mastery-professional-development/number-addition-and-subtraction/>

Resources

Place value counters, base 10, place value grid/Gattengo charts, Number Lines, Counting stick

Gordons Maths Games, Mathletics, TTRockstars

BBC Super Movers

<https://www.bbc.co.uk/teach/supermove/ks1-maths-collection/z6v4scw>