

White Rose Maths Hub  
Small Steps Progression - Autumn

Year 3

# Overview

## Small Steps

- ▶ Hundreds
- ▶ Represent numbers to 1,000
- ▶ 100s, 10s and 1s (1)
- ▶ 100s, 10s and 1s (2)
- ▶ Number line to 1,000
- ▶ Find 1, 10, 100 more or less than a given number
- ▶ Compare objects to 1,000
- ▶ Compare numbers to 1,000
- ▶ Order numbers
- ▶ Count in 50s

## NC Objectives

Identify, represent and estimate numbers using different representations.

Find 10 or 100 more or less than a given number

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

Compare and order numbers up to 1000

Read and write numbers up to 1000 in numerals and in words.

Solve number problems and practical problems involving these ideas.

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

# Overview

## Small Steps

- Add and subtract multiples of 100
- Add and subtract 3-digit numbers and ones – not crossing 10
- Add 3-digit and 1-digit numbers – crossing 10
- Subtract a 1-digit number from a 3-digit number – crossing 10
- Add and subtract 3-digit numbers and tens – not crossing 100
- Add a 3-digit number and tens – crossing 100
- Subtract tens from a 3-digit number – crossing 100
- Add and subtract 100s
- Spot the pattern – making it explicit
- Add and subtract a 2-digit and 3-digit number – not crossing 10 or 100
- Add a 2-digit and 3-digit number – crossing 10 or 100
- Subtract a 2-digit number from a 3-digit number – cross the 10 or 100
- Add two 3-digit numbers – not crossing 10 or 100
- Add two 3-digit numbers – crossing 10 or 100
- Subtract a 3-digit number from a 3-digit number – no exchange
- Subtract a 3-digit number from a 3-digit number – exchange
- Estimate answers to calculations
- Check

## NC Objectives

Add and subtract numbers mentally, including: a three-digit number and ones; a three-digit number and tens; a three digit number and hundreds.

Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.

Estimate the answer to a calculation and use inverse operations to check answers.

Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.

# Overview

## Small Steps

- ▶ Multiplication – equal groups
- ▶ Multiplying by 3
- ▶ Dividing by 3
- ▶ The 3 times-table
- ▶ Multiplying by 4
- ▶ Dividing by 4
- ▶ The 4 times-table
- ▶ Multiplying by 8
- ▶ Dividing by 8
- ▶ The 8 times-table

## NC Objectives

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

Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.

Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.

Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which  $n$  objects are connected to  $m$  objectives.