St Patrick's RC Primary School

Mathematics Planning



Year 3

Revised July 2021

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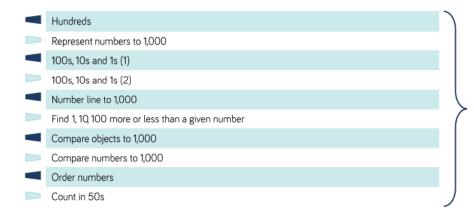
Yearly Planning

| | | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--------|--------|--|--------|--------|----------------------------------|-------------------|--------|-------------------------------|---------------------------|-------------------------------------|---------|---------------|---------------|
| Autuma | Autumn | Number: Place Value | | | Number: Addition and Subtraction | | | | | Number: Multiplication and Division | | | Consolidation |
| Opring | Spring | Number: Multiplication and Division | | | Measurement: Money | Statistics | | Measurement: L and Perimet | | • | | Consolidation | |
| Summer | Summer | Number: Fractions | | | Meas | Measurement: Time | | | netry: rties of ape | Measurement: Mass and Capacity | | Consolidation | |

Termly Planning - Autumn



Small Steps



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 number up to

Read and write numbers up to 1,000 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

Year 3 | Autumn Term | Week 4 to 8 - Number: Addition & Subtraction

Overview

Small Steps

Add and subtract 3-digit and 1-digit numbers – 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 and 2-digit numbers – not crossing 100 Add 3-digit and 2-digit numbers – crossing 100 Add 3-digit and 2-digit numbers – crossing 100 Subtract a 2-digit number 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 numbers – not crossing 10 or 100 Add a 2-digit and 3-digit numbers – crossing 10 or 100 Subtract a 2-digit number from a 3-digit number – crossing 10 or 100 Add two 3-digit numbers – not crossing 10 or 100 Subtract a 3-digit numbers – crossing 10 or 100 Subtract a 3-digit numbers – crossing 10 or 100

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.

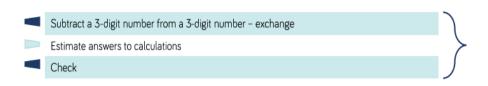
Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.

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



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, p comple

Year 3 | Autumn Term | Week 9 to 11 - Number: Multiplication & Division

Overview Small Steps Multiplication - equal groups Multiply by 3 Divide by 3 The 3 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*

Termly Planning - Spring

Multiply by 4

Divide by 4

Multiply by 8

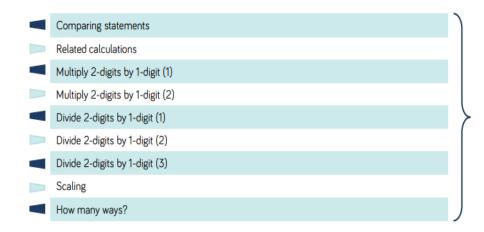
Divide by 8

The 4 times table

The 8 times table



Small Steps



NC Objectives

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 objects.

Year 3 | Spring Term | Week 4 - Measurement: Money

Overview

Small Steps



NC Objectives

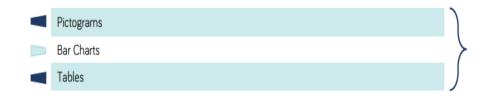
Add and subtract amounts of money to give change, using both $\mathfrak L$ and p in practical contexts.

Year 3 | Spring Term | Week 5 to 6 - Statistics



Overview

Small Steps



NC Objectives

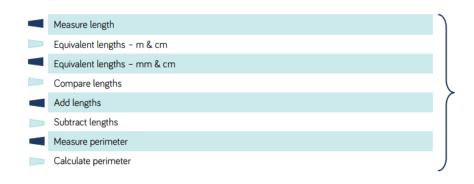
Interpret and present data using bar charts, pictograms and tables.

Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.

Year 3 | Spring Term | Week 7 to 9 - Measurement: Length & Perimeter

Overview

Small Steps



NC Objectives

Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).

Measure the perimeter of simple 2-D shapes.

Small Steps

Unit and non-unit fractions Making the whole Tenths Count in tenths Tenths as decimals Fractions on a number line Fractions of a set of objects (1) Fractions of a set of objects (2) Fractions of a set of objects (3)

NC Objectives

Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10

Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.

Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.

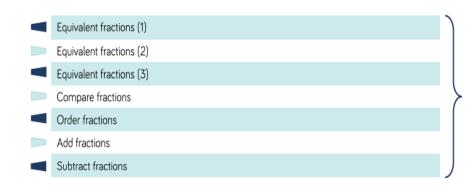
Solve problems that involve all of the above.

Termly Planning - Summer

Year 3 | Summer Term | Week 1 to 3 - Number: Fractions

Overview

Small Steps



NC Objectives

Recognise and show, using diagrams, equivalent fractions with small denominators. Compare and order unit fractions, and fractions with the same denominators. Add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$] Solve problems that involve all of the above.

Small Steps



NC Objectives

Tell and write the time from an analogue clock, including using Roman numerals from 1 to XII and 12-hour and 24-hour clocks.

Estimate and read time with increasing accuracy to the nearest minute

Record and compare time in terms of seconds, minutes and hours.

Use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight.

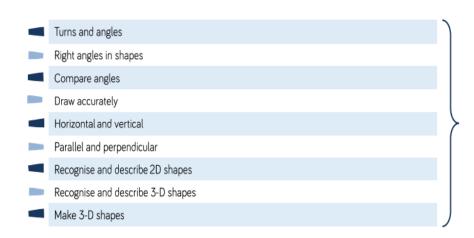
Know the number of seconds in a minute and the number of days in each month, year and leap year.

Compare durations of events [for example to calculate the time taken by particular events or tasks].

Year 3 | Summer Term | Week 7 to 8 - Geometry: Properties of Shape

Overview

Small Steps



NC Objectives

Recognise angles as a property of shape or a description of a turn.

Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle.

Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.

Draw 2-D shapes and make 3-D shapes using modelling materials.

Recognise 3-D shapes in different orientations and describe them.

Overview Small Steps

Measure mass (1) Measure mass (2) Compare mass Add and subtract mass Measure capacity (1) Measure capacity (2) Compare capacity Add and subtract capacity

NC Objectives

Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)