Green Lane Church of England Primary School

Maths Learning Plan **Term 1**

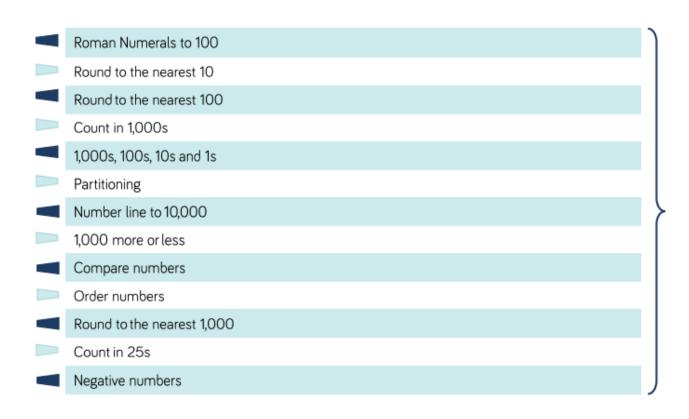
Year 4

Topic or Activity	Year 4 Term 1 Knowledge Based Learning Objectives
Number: Place Value	Count in multiples of 6, 7, 9, 25 and 1000
	Find 1000 more or less than a given number
	Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and 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 backwards through zero to include negative numbers
Number: Addition & Subtraction	Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition
	and subtraction where appropriate
	Estimate and use inverse operations to check answers to a calculation
	Solve addition and subtraction two-step problems in contexts, deciding which operations and
	methods to use and why
Measurement: Length &	measure and calculate the perimeter of a rectilinear figure [including squares] in centimetres and metres
Perimeter	
	convert between different units of measure [e.g. kilometre to metre; hour to minute]
	would result indication and division facts for resultindication tables up to 12 v 12
Number: Multiplication & Division	recall multiplication and division facts for multiplication tables up to 12 × 12 count in multiples of 6, 7, 9, 25 and 1000
	use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1;
	dividing by 1; multiplying together three numbers

Year 4 | Autumn Term | Week 1 to 4 - Number: Place Value



Overview Small Steps



NC Objectives

Count in multiples of 6, 7, 9, 25 and 1,000.

Find 1,000 more or less than a given number.

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

Order and compare numbers beyond 1,000.

Identify, represent and estimate numbers using different representations.

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

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

Count backwards through zero to include negative numbers.

Year 4 | Autumn Term | Week 5 to 7 - Number: Addition & Subtraction



Overview

Small Steps



NC Objectives

Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.

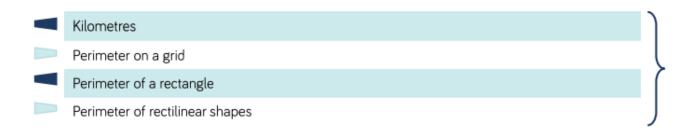
Estimate and use inverse operations to check answers to a calculation.

Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why.

Year 4 | Autumn Term | Week 8 - Measurement: Length & Perimeter



Overview Small Steps



NC Objectives

Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.

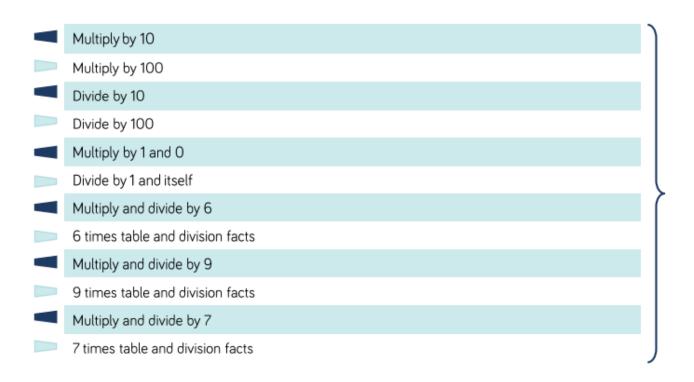
Convert between different units of measure [for example, kilometre to metre].

Year 4 | Autumn Term | Week 9 to 11 - Number: Multiplication & Division



Overview

Small Steps



NC Objectives

Recall and use multiplication and division facts for multiplication tables up to 12×12

Count in multiples of 6, 7, 9, 25 and 1,000

Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.

Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one-digit, integer scaling problems and harder correspondence problems such as n_{\cdot} objects are connected to m objects.

Green Lane Church of England Primary School

Maths Learning Plan **Term 2**

Year 4

Topic or Activity	Year 4 Term 2 Knowledge Based Learning Objectives
Number: Multiplication &	Recall multiplication and division facts for multiplication tables up to 12 × 12
Division	Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers
	Recognise and use factor pairs and commutativity in mental calculations
	Multiply two-digit and three-digit numbers by a one-digit number using formal written layout
	Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects
Measurement: Area	Find the area of rectilinear shapes by counting squares
Number: Fractions	Recognise and show, using diagrams, families of common equivalent fractions
	count up and down in hundredths
	Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten
	Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide
	quantities, including non-unit fractions where the answer is a whole number
	Add and subtract fractions with the same denominator
Number: Decimals	Recognise and write decimal equivalents of any number of tenths or hundredths
	Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits
	in the answer as ones, tenths and hundredths
	Solve simple measure and money problems involving fractions and decimals to two decimal places

Year 4 | Spring Term | Week 1 to 3 - Number: Multiplication & Division



Overview

Small Steps



NC Objectives

Recall and use multiplication and division facts for multiplication tables up to 12×12 .

Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.

Recognise and use factor pairs and commutativity in mental calculations.

Multiply two-digit and three-digit numbers by a one digit number using formal written layout.

Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one-digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.

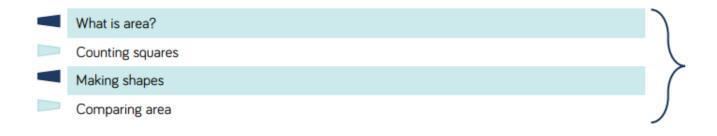
Year 4 | Spring Term | Week 4 - Measurement: Area



Overview

Small Steps

NC Objectives

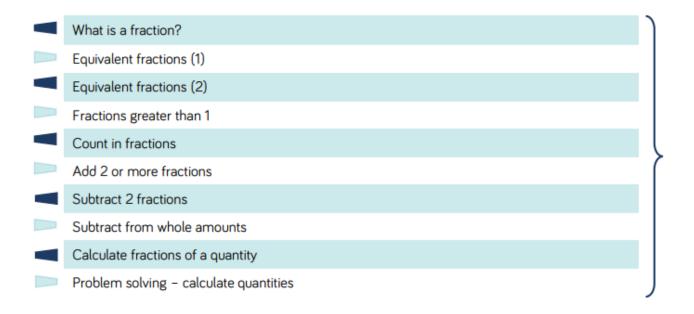


Find the area of rectilinear shapes by counting squares.

Year 4 | Spring Term | Week 5 to 8 - Number: Fractions



Overview Small Steps



NC Objectives

Recognise and show, using diagrams, families of common equivalent fractions.

Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.

Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.

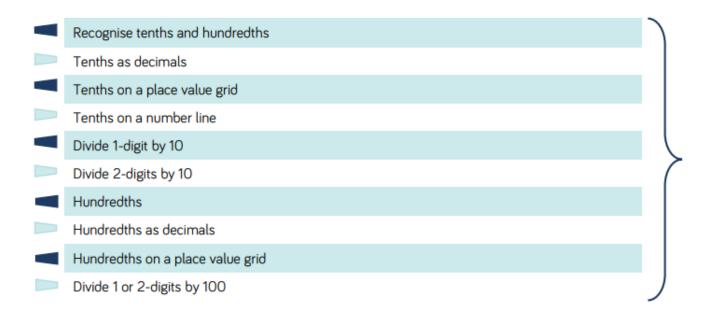
Add and subtract fractions with the same denominator.

Year 4 | Spring Term | Week 9 to 11 - Number: Decimals



Overview

Small Steps



NC Objectives

Recognise and write decimal equivalents of any number of tenths or hundredths.

Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths

<u>Solve simple measure</u> and money <u>problems involving fractions and</u> decimals to two decimal places.

Convert between different units of measure [for example, kilometre to metre]

Green Lane Church of England Primary School

Maths Learning Plan **Term 3**

<u>Year 4</u>

Topic or Activity	Year 4 Term 3 Knowledge Based Learning Objectives
Number: Decimals	Compare numbers with the same number of decimal places up to two decimal places
	Round decimals with one decimal place to the nearest whole number
	Recognise and write decimal equivalents to $^{1}/_{4}$; $^{1}/_{2}$; $^{3}/_{4}$
	Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths
Measurement: Money	Estimate, compare and calculate different measures, including money in pounds and pence
,	Solve simple measure and money problems involving fractions and decimals to two decimal places
Measurement: Time	Read, write and convert time between analogue and digital 12 and 24-hour clocks
	Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days
Statistics	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs
	Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs
Geometry: Properties of Shape	Identify acute and obtuse angles and compare and order angles up to two right angles by size
	Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes
	Identify lines of symmetry in 2-D shapes presented in different orientations
	Complete a simple symmetric figure with respect to a specific line of symmetry

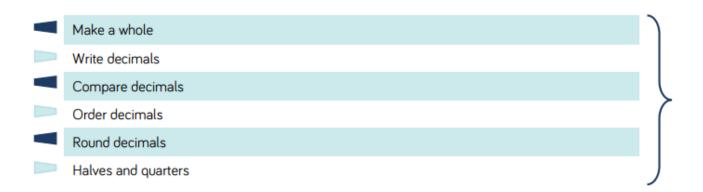
Describe positions on a 2-D grid as coordinates in the first quadrant	
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Geometry: Position & Direction	Plot specified points and draw sides to complete a given polygon
	Describe movements between positions as translations of a given unit to the left/right and up/down

Year 4 | Summer Term | Week 1 to 2 - Number: Decimals



Overview Small Steps



NC Objectives

Compare numbers with the same number of decimal places up to two decimal places.

Round decimals with one decimal place to the nearest whole number. Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$

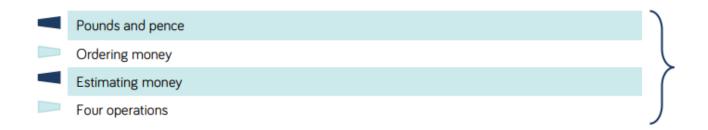
Understand the effect of dividing a one or two digit number by 10 or 100. Identifying the value of the digits in the answer as ones, tenths and hundredths.

Year 4 | Summer Term | Week 3 to 4 - Measurement: Money



Overview

Small Steps



NC Objectives

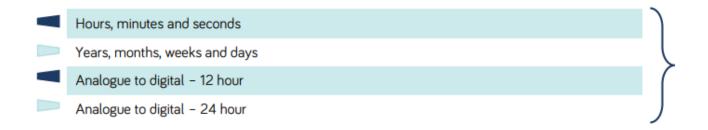
Estimate, compare and calculate different measures, including money in pounds and pence.

Solve simple measure and money problems involving fractions and decimals to two decimal places.

Year 4 | Summer Term | Week 5 - Measurement: Time



Overview Small Steps



NC Objectives

Read, write and convert time between analogue and digital 12and 24-hour clocks.

Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.

Year 4 | Summer Term | Week 6 to 7 - Statistics



Overview Small Steps



NC Objectives

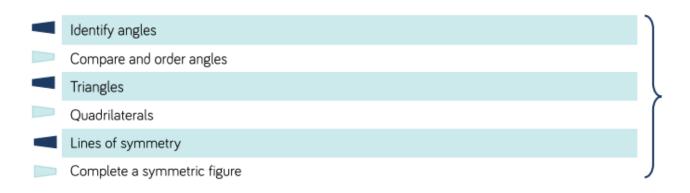
Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.

Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.

Year 4 | Summer Term | Week 8 to 10 - Geometry: Properties of Shapes



Overview Small Steps



NC Objectives

Identify acute and obtuse angles and compare and order angles up to two right angles by size.

Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.

Identify lines of symmetry in 2-D shapes presented in different orientations.

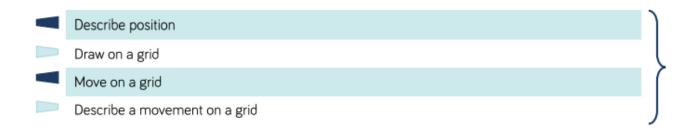
Complete a simple symmetric figure with respect to a specific line of symmetry.

Year 4 | Summer Term | Week 11 - Geometry: Position & Direction



Overview

Small Steps



NC Objectives

Describe positions on a 2-D grid as coordinates in the first quadrant. Plot specified points and draw sides to complete a given polygon.

Describe movements between positions as translations of a given unit to the left/right and up/down.