St Patrick's RC Primary School

Mathematics Planning



Year 4

Revised July 2021

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
Autumn	Number: Place Value				Number: Addition and Subtraction			Measurement: Length and Perimeter	Number: Multiplication and Division			Consolidation
Spring	Number: Multiplication and Division			Number: Fractions				Number: Decimals			Consolidation	
Summer		nber: mals	Measurement: Money		Measurement: Time	Stati	stics	Geome	try: Properties of Shape		Geometry: Position and Direction	Consolidation

<u>Termly Planning – Autumn</u>

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



Count backwards through zero to include negative numbers.

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



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

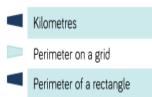
NC Objectives

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.

Overview Small Steps



Perimeter of rectilinear shapes

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



Termly Planning - Spring

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



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*_objects are connected to *m* objects.

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

What is a fraction?	
Equivalent fractions (1)	
Equivalent fractions (2)	
Fractions greater than 1	
Count in fractions	
Add 2 or more fractions	$\left(\right)$
Subtract 2 fractions	
Subtract from whole amounts	
Calculate fractions of a quantity	
Problem solving – calculate quantities	

NC Objectives

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

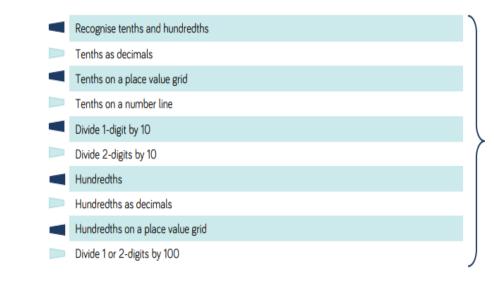
Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.

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

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

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

Termly Planning – Summer

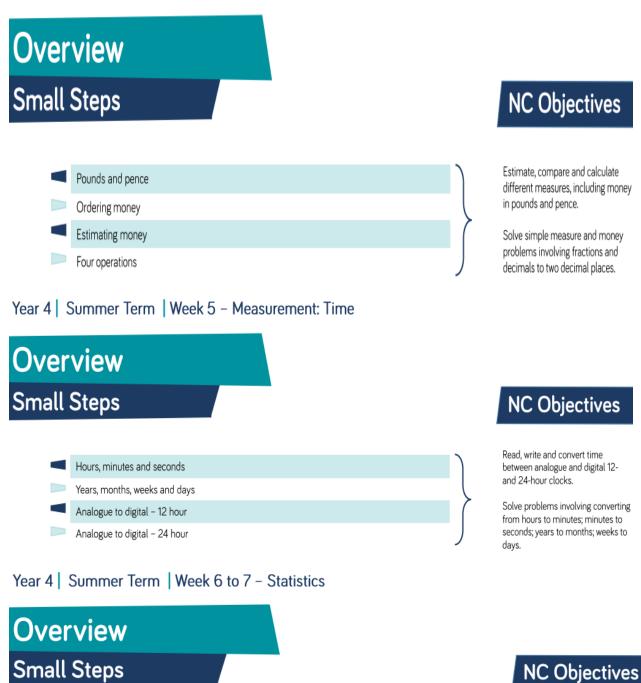
Overview Small Steps Make a whole Write decimals Compare decimals Order decimals Round decimals Halves and quarters

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

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

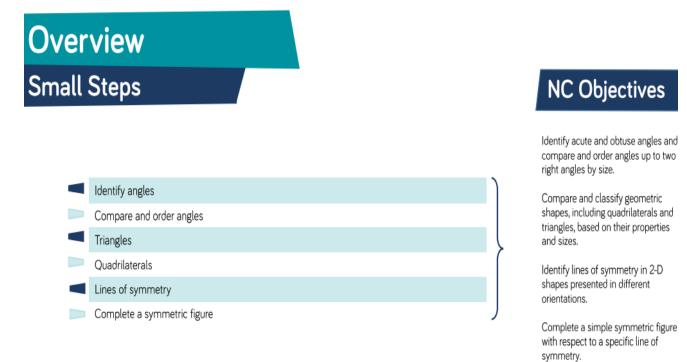


Interpret charts Comparison, sum & difference Introducing line graphs Line graphs

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



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



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.