

The Federation of Nettlestone & Newchurch Primary Curriculum Overview Mathematics Year 4

<u>Autumn Term</u>	<u>Spring Term</u>	<u>Summer Term</u>
<p><u>Problem solving and reasoning</u></p> <ul style="list-style-type: none"> I can solve one and two-step problems involving whole numbers, simple fractions and decimals, money and measures, including time and temperature, perimeter and applying multiplicative scaling I can represent a problem using number sentences involving more than one operation; draw and interpret diagrams and graphs I can report orally on solutions to problems, providing explanations and decisions supported with an argument and reasons I can identify and describe patterns, properties and relationships to establish invariants, apply in unfamiliar situations to make deductions; investigate a given statement and test with examples; collect data to create graphs and support an argument 		
<p><u>Number and Place Value</u></p> <ul style="list-style-type: none"> I can find 1000 more or less than a given number I can identify, represent and estimate numbers using different representation I can recognise the place value of each digit in a 4-digit number (1000s,100s,10s and 1s) I can solve number and practical problems that involve all of the following and with increasingly large positive numbers I can round any number to the nearest 10,100 or 1000 I can count in multiples of 6, 7, 9, 25 and 1000 	<p><u>Number and Place Value</u></p> <ul style="list-style-type: none"> I can round any number to the nearest 10,100 or 1000 I can count in multiples of 6, 7, 9, 25 and 1000 I can count backwards through 0 to include negative numbers I can order and compare numbers beyond 1000 	<p><u>Number and Place Value</u></p> <ul style="list-style-type: none"> I can count in multiples of 6, 7, 9, 25 and 1000 I can read roman numerals to 100, (I-C) and know that over time the numeral system changed to include the concept of 0 and place value
<p><u>Addition and subtraction</u></p> <ul style="list-style-type: none"> I can estimate and use inverse operations to check answers to a calculation I can solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why I can interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs (statistics) I can solve comparison sum and difference problems using information presented in bar charts, pictograms tables and other graphs (statistics) 	<p><u>Addition and subtraction</u></p> <ul style="list-style-type: none"> I can estimate and use inverse operations to check answers to a calculation I can add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate I can solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why 	<p><u>Addition and subtraction</u></p> <ul style="list-style-type: none"> I can estimate and use inverse operations to check answers to a calculation I can add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate I can solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why I can solve comparison sum and difference problems using information presented in bar charts, pictograms tables and other graphs (statistics) I can interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs (statistics)
<p><u>Multiplication and division</u></p>	<p><u>Multiplication and division</u></p>	<p><u>Multiplication and division</u></p>

- I can recall multiplication and division facts for multiplication tables up to 12×12
- I can 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

Fractions

- I can recognise and write decimal equivalents to $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$
- I can solve simple measure and money problems involving fractions and decimals to two decimal places

Measures

- I can convert between different units of measure (e.g. kilometre to metre; hour to minute)

Geometry: properties of shapes

- I can compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes
- I can identify lines of symmetry in 2-D shapes presented in different orientations

- I can recognise and use factor pairs and commutatively in mental calculations
- I can multiply two-digit and three-digit numbers by a one-digit number using formal written layout

Fractions Decimals and percentages

- I can recognise and write decimal equivalents of any number of tenths or hundredths
- I can 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
- I can round decimals with one decimal place to the nearest whole number
- I can solve simple measure and money problems involving fractions and decimals to two decimal places

Measures

- I can measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres/
- I can read, write and convert time between analogue and digital 12 and 24-hour clocks
- I can solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days

Geometry: properties of shapes

- I can identify acute and obtuse angles and compare and order angles up to two right angles by size

- I can recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables
- I can calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals ($=$) signs
- I can solve one-step problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts

Measures

- I can compare and order lengths, mass, volume/capacity and record the results using $>$, $<$ and $=$

Geometry: properties of shapes

- I can identify and describe the properties of 2-D shapes, including the number of sides and symmetry in a vertical line
- I can identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces

Statistics

- I can solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and simple line graphs

Geometry: position and direction

- I can plot specified points and draw sides to complete a given polygon

