

The Federation of Nettlestone & Newchurch Primary Curriculum Overview Mathematics Year 3

| <u>Autumn Term</u> | <u>Spring Term</u> | <u>Summer Term</u> |
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| <p>Problem solving and reasoning</p> <ul style="list-style-type: none"> Solve one- and two-step problems involving whole numbers and unit fractions, money or measures, including time and temperature Identify the known and to-be-found information in a problem; use number sentences and diagrams to support thinking; present the solution in context of the problem Present solutions to problems in an organised way; explain decisions, methods and results using mathematical language, images and arithmetic symbols Use patterns, properties of and relationships between numbers or shapes to determine and describe similarities and differences make inferences from given information and frame an hypothesis to test further | | |
| <p><u>Number and Place Value</u></p> <ul style="list-style-type: none"> I can count from 0 in multiples of 4; find 10 or 100 more or less than a given numbers I can identify, represent and estimate numbers using different representations I can recognise the place value of each digit in a three digit number(100s, 10s, 1s) <p><u>Addition and subtraction</u></p> <ul style="list-style-type: none"> I can add and subtract numbers mentally, including: <ul style="list-style-type: none"> a three-digit number and ones a three-digit number and hundreds I can estimate the answer to a calculation and use inverse operations to check answers I can interpret and present data using bar charts, pictograms and tables(statistics) I can solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. <p><u>Multiplication and division</u></p> <ul style="list-style-type: none"> I can recall and use multiplication and division facts for the 3, 4 multiplication tables I can write and calculate mathematical statements for multiplication using the multiplication tables that I know using mental methods | <p><u>Number and Place Value</u></p> <ul style="list-style-type: none"> I can compare and order numbers up to 1000 I can read and write numbers up to a thousand in numerals and words I can count from 0 in multiples of 4; 50 and 100 find 10 or 100 more or less than a given numbers <p><u>Addition and subtraction</u></p> <ul style="list-style-type: none"> I can add and subtract numbers mentally, including: <ul style="list-style-type: none"> a three-digit number and tens I can interpret and present data using bar charts, pictograms and tables(statistics) I can add and subtract numbers with up to three digits I can solve 1-step and 2-step questions such as 'How many more' using information presented in scaled bar charts, pictograms and tables (statistics) <p><u>Multiplication and division</u></p> | <p><u>Number and Place Value</u></p> <ul style="list-style-type: none"> I can count from 0 in multiples of 4; 50 and 100 find 10 or 100 more or less than a given numbers <p><u>Addition and subtraction</u></p> <ul style="list-style-type: none"> I can solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. I can interpret and present data using bar charts, pictograms and tables(statistics) I can solve 1-step and 2-step questions such as 'How many more' using information presented in scaled bar charts, pictograms and tables (statistics) <p><u>Multiplication and division</u></p> <ul style="list-style-type: none"> I can write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods |

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| <ul style="list-style-type: none"> I can solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which n objects are connected to m objects. <p><u>Fractions</u></p> <ul style="list-style-type: none"> I can compare and order unit fractions and fraction with the same denominator I can count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts I can recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators <p><u>Measures</u></p> <ul style="list-style-type: none"> I can add and subtract amounts of money to give change, using both pounds and pence in practical contexts I can use vocabulary such as a.m/p.m, morning, noon, midnight I can measure the perimeter of simple 2-D shapes I can tell and write the time from an analogue clock and 12-hour clock I can compare, add and subtract lengths (m, cm,mm); mass(kg/g); volume/capacity (l/ml) | <p><u>Fractions</u></p> <ul style="list-style-type: none"> I can recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators I can recognise and show using diagrams equivalent fractions with small denominators I can compare and order unit fractions with the same denominator I can recognise that tenths arise from dividing an object into ten equal parts and dividing 1 digit numbers or quantities by 10 <p><u>Measures</u></p> <ul style="list-style-type: none"> I can know the number of seconds in a minute and the number of days in each month, year and leap year I can add and subtract amounts of money to give change, using both pounds and pence in practical contexts I can compare, add and subtract lengths (m, cm, mm); mass(kg/g); volume/capacity (l/ml) <p><u>Geometry: properties of shapes</u></p> | <ul style="list-style-type: none"> I can recall and use multiplication and division facts for the 3, 4 multiplication tables <p><u>Fractions</u></p> <ul style="list-style-type: none"> I can recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators I can add and subtract fractions with the same denominator within one whole (e.g. $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$) recognise and show, using diagrams, equivalent fractions with small denominators <p><u>Measures</u></p> <ul style="list-style-type: none"> I can estimate and read time with increasing accuracy to the nearest minute I can record and compare time in terms of seconds, minutes, hours and o'clock I can use vocabulary such as a.m/p.m, morning, noon, midnight I can know the number of seconds in a minute and the number of days in each month, year and leap year I can compare durations of events for example to calculate the time taken by particular events or tasks I can tell and write the time from an analogue clock including using roman numerals from I – XII, and 12 and 24 hour clock <p><u>Geometry: properties of shapes</u></p> <ul style="list-style-type: none"> I can identify horizontal and vertical lines and |
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Geometry: properties of shapes

- I can identify right angles recognise that 2 right angles make a half turn, 3 make $\frac{3}{4}$ of a turn and 4 a complete turn
- I can identify horizontal and vertical lines and pairs of perpendicular and parallel lines
- I can draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations; and describe them

- I can identify right angles recognise that 2 right angles make a half turn, 3 make $\frac{3}{4}$ of a turn and 4 a complete turn

pairs of perpendicular and parallel lines

- I can draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations; and describe them
- I can identify right angles recognise that 2 right angles make a half turn, 3 make $\frac{3}{4}$ of a turn and 4 a complete turn
- I can identify whether angles are $>$ or $<$ than a right angle