

Mathematics Curriculum Objectives Year Three

Trinity Primary





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Year 3 Number				
	3.1	3.2	3.3	3.4 + application
Counting	I can count in multiples of 2, 5 and 10 forwards and backwards	I can count in multiples of 3 to at least 30 and 4 to at least 40	I can count in multiples of 8, 50 and 100	I can count in multiples of 9
Place Value	<p style="color: red;">I can recognise the place value of each digit in a two-digit number, partition and order</p> <p style="color: red;">I can compare numbers from 0 to 100 and use <, > and = signs</p>	<p style="color: red;">I can make the largest or smallest two-digit number with a given set of number cards</p> <p style="color: red;">I can compare numbers from 0 to 500 and use <, > and = signs</p>	<p style="color: red;">I can recognise the place value of each digit in a three-digit number</p> <p style="color: red;">I can compare and order numbers up to 1000 and use <, > and = signs</p>	<p style="color: red;">I can make the largest or smallest three-digit number with a given set of number cards</p> <p style="color: red;">I can compare and order numbers over 1000 and use <, > and = signs</p>
Representing Number	<p>I can read and write numbers to 500 and beyond</p> <p>I can read and write numbers to at least 100 in words</p> <p>I know the symbols for multiplication (×), division (÷)</p>	<p>I can write a number sentence to represent a word problem involving any operation</p>	<p>I can read and write numbers up to 1000 in numerals and in words</p> <p style="color: red;">I can find 10 more or less than a given number</p>	<p style="color: red;">I can find 100 more or less than a given number</p>
Number Facts	I know my number bonds to 20 and related subtraction facts fluently	I know my number bonds to 100 when they are powers of 10	I know my number bonds to 100 when they are powers of 5	I know all number bonds to 100
Mental +/-	<p style="color: red;">I can add and subtract including TU+U, TU+T to 100</p> <p>I can show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot</p>	<p style="color: red;">I can add and subtract including TU+TU</p>	<p style="color: red;">I can add and subtract numbers mentally, including: HTU+U, HTU+T and HTU+H</p>	



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Written +/-	I can use column addition and subtraction for TU+/-U, TU+/-TU	I can use column addition and subtraction for TU+/-U, TU+/-TU involving borrowing and carrying	I can use column addition and subtraction for numbers up to 4 digits involving carrying	I can use column addition and subtraction for numbers up to 4 digits involving borrowing
Problems +/-	I can solve 2-step problems with addition and subtraction		I can solve 2-step problems involving more complex addition and subtraction I can estimate the answer to a calculation	I can solve missing number problems e.g. $34 + \square = 87$ I can use inverse operations to check answers
Number Facts (x/÷)	I can recall division facts for the 2, 5 and 10 multiplication tables I can recognise odd and even numbers to 100 and beyond	I can multiply by 10 and 100	I can recall division facts for Bronze	I am beginning to recall division facts for Silver
Mental (x/÷)	I have completed Nickel level times tables I can show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot	My times are improving in Bronze level times tables	I have completed Bronze level times tables	My times are improving in Silver level times tables
Written (x/÷)	I can use informal written methods for grouping and sharing i.e. 'grouping circles' and 'share in a square'	I can use informal written methods for grouping and sharing i.e. 'grouping circles' and 'share in a square' with remainders	I can use formal written multiplication for TU x U I can use bus shelter division for TU ÷ U without remainders	I can use formal written multiplication for HTU x U I can use bus shelter division for TU ÷ U with remainders



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Problems (x/÷)	I am secure in solving one-step problems that involve multiplication and division using all relevant vocab		<p>I can solve simple missing number problems i.e. $7 \times \square = 21$</p> <p>I can solve simple multiplication problems i.e. I have 4 boxes with 5 eggs in each box, how many eggs are there altogether?</p>	<p>I can solve more complex missing number problems i.e. $7 \times \square = 56$</p> <p>I can solve simple division problems i.e. I have 15 eggs in 5 boxes altogether, how many eggs are each box?</p>
Fractions	I can find, name and write $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity	Begin to solve simple problems involving $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ i.e. 12 cars, $\frac{3}{4}$ are red, how many are red?	<p>I can find, name and write fractions of a length, shape, set of objects or quantity up to tenths</p> <p>I can count up and down in tenths</p> <p>I can recognise that tenths arise from dividing an object or number into 10 equal parts</p>	I can count up and down in tenths across unit barriers i.e. 1.9, 2.0, 2.1
Comparing Fractions			<p>I can compare and order unit fractions (i.e. $\frac{1}{4}$, $\frac{1}{6}$, $\frac{1}{8}$) and fractions with the same denominators</p> <p style="color: red;">I can recognise and show, using diagrams, equivalent fractions with small denominators</p>	<p>I can compare and order common non unit fractions (i.e. $\frac{2}{4}$, $\frac{3}{4}$, $\frac{2}{3}$, $\frac{1}{2}$) with pictures</p> <p style="color: red;">I can recognise fractions equivalent to $\frac{1}{2}$ without diagrams</p>
Fractional Quantities			I can find fractions of quantities or objects with small denominators i.e. $\frac{2}{3}$ of 12	
Fraction Calculations	I can recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$	I know a $\frac{1}{2}$ and a $\frac{1}{2}$, and $\frac{3}{4}$ and $\frac{1}{4}$ equals a whole	I can add and subtract fractions with the same denominator within one whole [for example $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$]	



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Year 3 Geometry, Measuring and Statistics				
	3.1	3.2	3.3	3.4 + application
Measures	<p>I can measure length/height (m/cm); mass (kg/g); capacity (litres/ml) to the nearest appropriate unit</p> <p>I can compare and order lengths, mass, volume/capacity and record the results using $>$, $<$ and $=$ when they are presented as pictures with the same scale</p>	<p>I can measure temperature ($^{\circ}\text{C}$) using a thermometer</p>	<p>I can measure, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) in scales of 2, 5 and 10</p>	<p>I can measure, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) in scales of 20, 25 and 50</p> <p>I can compare and order lengths, mass, volume/capacity and record the results using $>$, $<$ and $=$ when they are presented as pictures with different scales i.e. cylinder in 5s and beaker in 2s</p>
Perimeter & Area			<p>I can measure the perimeter of simple 2-D shapes e.g. squares and rectangles</p>	<p>I can measure the perimeter of more complex 2-D shapes e.g. triangles</p>
Money	<p>I can choose different combinations of coins to make any value up to £10</p> <p style="color: red;">I can solve simple problems including giving change</p>	<p>I can use the smallest amount of coins to make any value up to £10</p>	<p style="color: red;">I can add and subtract amounts of money to give change, using both £ and p in practical contexts</p>	<p style="color: red;">I can complete one-step word problems involving change</p>
Time	<p>I know the number of minutes in an hour and the number of hours in a day</p> <p style="color: red;">I can tell the time to five minutes and draw the hands on a clock face</p> <p>I can solve simple interval problems using a blank timeline i.e. how many minutes from 9:15 to 10:00</p>	<p>I know the number of days in a year</p> <p>I can solve simple interval problems using a blank timeline i.e. how many minutes from 9:15 to 10:05</p>	<p>I know the number of days in each month and number of days in a leap year</p> <p style="color: red;">I can tell the time to the nearest minute</p> <p>I can solve interval problems using a blank timeline over an hour i.e. how many minutes from 9:15 to 11:20</p> <p>I can use vocabulary such as o'clock, a.m./p.m. morning, afternoon, noon and midnight</p>	<p style="color: red;">I can tell the time to the nearest minute and draw the hands on the clock face</p> <p>I can solve interval problems using a blank timeline over an hour i.e. how many minutes from 9:15 to 12:00</p>



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2D Shapes	<p>I can name and sort common polygons, including octagons and heptagons</p> <p>I can describe the properties of 2D shapes, including the number of sides and vertical lines of symmetry</p>	<p>I can name and sort polygons by number of sides, corners and lines of vertical symmetry</p> <p>I can use vocab including vertices, edges, faces and symmetry</p>	<p>I can draw common 2-D shapes including squares, rectangles and triangles</p> <p>I can identify horizontal and vertical lines</p> <p>I can measure the perimeter of simple 2-D shapes e.g. squares and rectangles</p>	<p>I can identify pairs of perpendicular and parallel lines</p> <p>I can measure the perimeter of more complex 2-D shapes e.g. triangles, pentagons, hexagons</p>
3D Shapes	<p>I can name and sort 3-D shapes, including the number of edges, vertices and faces</p> <p>I can identify 2-D shapes on the surface of 3-D shapes</p>		<p>I can recognise 3-D shapes in different orientations and describe them</p> <p>I can make 3-D shapes using Polydron</p>	
Angles			<p>I can identify right angles</p> <p>I can identify whether angles are greater or less than a right angle</p>	<p>I can state how many right angles are in a given 2-D shape</p>
Position & Direction	<p>I can distinguish between rotation as a turn including clockwise and anti-clockwise</p>		<p>I know that two right angles make a half-turn</p>	<p>I know that three right angles make three quarters of a turn and four a complete turn</p>
Interpreting Data	<p>I can interpret and construct simple pictograms where pictures are worth 2, 5 or 10 units</p> <p>I can interpret and make simple bar charts with intervals of 1 or 2</p>	<p>I can interpret and construct simple pictograms using half pictures</p> <p>I can interpret and make simple bar charts with intervals of 2, 5 and 10</p>	<p>I can interpret and make simple bar charts with intervals of 20, 25 and 50</p>	<p>I can interpret and make simple bar charts with when data falls between simple intervals</p>



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Extracting Info From Data	I can ask and answer one-step problems based on data including, which is most? which is the least? which is the most popular?	I can answer questions based on totalling all categories	I can solve one-step and two-step questions for example, How many more? How many fewer? using information presented in bar charts, pictograms and tables with simple scales	