

Mathematics Curriculum Objectives Year Four

Trinity Primary





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Year 4 Number				
	4.1	4.2	4.3	4.4 + application
Counting	I can count in multiples of 8, 50 and 100	I can count in multiples of 9	I can count backwards through zero to include negative numbers using a numberline I can count in multiples of 6, 25 and 1000	I can count backwards through zero to include negative numbers in 1s between 10 and -10 mentally I can count in multiples of 7
Place Value	I can recognise the place value of each digit in a three-digit number I can compare and order numbers up to 1000 and use <, > and = signs	I can make the largest or smallest three-digit number with a given set of number cards I can compare and order numbers over 1000 and use <, > and = signs	I can recognise the place value of each digit in a four-digit number I can compare and order 3 or more numbers beyond 1000 and use <, > and = signs I can round any number to the nearest 10, 100 or 1000	I can make the largest or smallest four-digit number with a given set of number cards I can compare numbers with the same number of decimal places up to two decimal places I can round any number up to 10,000 to the nearest 10, 100 and 1000 I can round decimals with one decimal place to the nearest whole number
Representing Number	I can read and write numbers up to 1000 in numerals and in words I can find 10 more or less than a given number	I can use Roman numerals from I to XII I can find 100 more or less than a given number	I can read Roman numerals to 100 (I to C) I can find 1000 more or less than a given number	I can find 1000 more or less than a given number i.e. $89,273 + 1000$
Number	I know my number bonds to 100 when they are powers of 5	I know all number bonds to 100		
Mental +/-	I can add and subtract numbers mentally, including: HTU+U, HTU+T and HTU+H		I can add and subtract numbers mentally, including: HTU+TU without crossing 10s or unit barriers e.g. $234 + 62$	I can add and subtract numbers mentally, including: HTU+TU crossing one 10s or unit barrier e.g. $234 + 67$
Written +/-	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	I can use column addition and subtraction for numbers with more than 4 digits involving carrying and borrowing	I can use column addition and subtraction for numbers with more than 4 digits involving double carrying and borrowing (e.g. $11200 - 946$ and $11689 + 278$)



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Problems +/-	<p>I can solve 2-step problems involving more complex addition and subtraction</p> <p>I can estimate the answer to a calculation</p>	<p>I can solve missing number problems e.g. $34 + \square = 87$</p> <p>I can use inverse operations to check answers</p>	<p>I can solve two-step problems involving borrowing and carrying</p> <p>I can estimate and use inverse operations to check answers to a calculation</p>	<p>I can solve two-step problems involving double borrowing and carrying</p> <p>I can use rounding to the nearest 10, 100 or 1000 to check answers to calculations when told to</p>
Number Facts (x/÷)	I can recall division facts for Bronze	I am beginning to recall division facts for Silver	I can recall division facts for Silver	
Mental (x/÷)	I have completed Bronze level times tables	I have completed Silver level times tables	<p>My times are improving in Gold level times tables</p> <p>I can multiply three one digit numbers together</p>	I have completed Gold level times tables
Written (x/÷)	<p>I can use formal written multiplication for TU x U</p> <p>I can use bus shelter division for TU ÷ U without remainders</p>	<p>I can use formal written multiplication for HTU x U</p> <p>I can use bus shelter division for TU ÷ U with remainders</p>	<p>I can use formal written multiplication for TU x U and HTU x U when Us are below 6</p> <p>I can use bus shelter division for HTU ÷ U with remainders</p>	<p>I can use formal written multiplication for TU x U and HTU x U when Us are between 6 – 9</p> <p>I can use bus shelter division for HTU ÷ U with remainders when the divisor does not fit into the first digit e.g. $125 \div 3$</p>
Problems (x/÷)	<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>	<p>I can solve more complex multiplication problems i.e. I have 8 boxes with 6 eggs in each box, how many eggs are there altogether?</p>	<p>I can solve more complex division problems i.e. I have 63 eggs in 9 boxes altogether, how many eggs are each box?</p>



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Fractions	<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>	<p>I can count up and down in tenths across unit barriers i.e. 1.9, 2.0, 2.1</p>	<p>I can count up and down in hundredths</p> <p>I can recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten</p>	<p>I can count up and down in hundredths across tenths and unit barriers i.e. 1.19, 2.10, 2.11</p>
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>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>I can recognise fractions equivalent to $\frac{1}{2}$ without diagrams</p>	<p>I can compare and order common non unit fractions (i.e. $\frac{2}{4}$, $\frac{3}{4}$, $\frac{2}{3}$, $\frac{1}{2}$) without pictures</p> <p>I can recognise and show, using diagrams, families of common equivalent fractions i.e. $\frac{1}{4} = \frac{2}{8} = \frac{4}{16}$</p>	<p>I can recognise and show families of common equivalent fractions by multiplying denominators and numerators by the same number</p>
Fractional Quantities	<p>I can find fractions of quantities or objects with small denominators i.e. $\frac{2}{3}$ of 12</p>		<p>I can find fractions of quantities or objects with larger denominators i.e. $\frac{3}{7}$ of 21</p>	
Fraction Calculations	<p>I can add and subtract fractions with the same denominator within one whole [for example $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$]</p>		<p>I can add and subtract fractions with the same denominator including answers resulting in an improper fraction</p>	
Decimals as Fractional Amounts			<p>I can recognise and write decimal equivalents of any number of tenths</p> <p>I can recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$</p> <p>I can multiply and divide a number by 10 and 100 when answers are decimals</p>	<p>I can recognise and write decimal equivalents of any number of hundredths</p> <p>I can recognise and write decimal equivalents to $\frac{1}{3}$ and $\frac{2}{3}$</p> <p>I can multiply and divide a decimal number by 10 and 100</p>



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Year 4 Geometry, Measuring and Statistics				
	4.1	4.2	4.3	4.4 + application
Measures	<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>	<p>I can measure, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/ capacity (l/ml) in scales where the measurement falls between intervals</p> <p>I can convert between different units of measure i.e. mm into cm/cm into m</p> <p>I can estimate lengths (m/cm); mass (kg); volume/capacity (l)</p>	<p>I can convert between different units of measure i.e. m into km</p> <p>I can estimate lengths (mm); mass (g); volume/capacity (ml)</p>
Perimeter & Area	<p>I can <u>measure</u> the perimeter of simple 2-D shapes e.g. squares and rectangles</p>	<p>I can <u>measure</u> the perimeter of more complex 2-D shapes e.g. triangles</p>	<p>I can find the perimeter and area of squares and rectangles by counting squares</p>	<p>I can find the perimeter and area of rectilinear shapes (shapes with only right angles)</p>
Money	<p>I can add and subtract amounts of money to give change, using both £ and p in practical contexts</p>	<p>I can complete one-step word problems involving change</p>	<p>I can complete two-step word problems involving change</p>	<p>I can complete multi-step word problems involving change</p>



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Time	<p>I know the number of days in each month and number of days in a leap year</p> <p>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>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>	<p>I can convert times i.e. hours into minutes, minutes into hours, years to months, weeks to days</p> <p>I can read, write and convert time between analogue and digital 12- and 24- hour clocks</p> <p>I can solve interval problems taking times from timetables/TV guides using a blank timeline over an hour i.e. how many minutes from 9:15 to 11:20</p>	<p>I can solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days</p> <p>I can solve interval problems taking times from timetables/TV guides using a blank timeline over an hour i.e. how many minutes from 9:15 to 12:00</p>
2D Shapes	<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 identify pairs of perpendicular and parallel lines</p>	<p>I can classify quadrilaterals and triangles, stating whether they are regular or irregular</p> <p>I can identify lines of symmetry in 2-D shapes presented in different orientations</p>	<p>I can classify all common polygons stating whether they are regular or irregular</p> <p>I can complete a simple symmetric figure with respect to a specific line of symmetry</p>
3D Shapes	<p>I can recognise 3-D shapes in different orientations and describe them</p> <p>I can make 3-D shapes using Polydron</p>		<p>I can make simple 3D shapes using given nets</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>	<p>I can identify acute and obtuse angles</p> <p>I can compare and order angles below 180°</p>	



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Position & Direction	I know that two right angles make a half-turn	I know that three right angles make three quarters of a turn and four a complete turn	<p>I can read coordinates in the first quadrant i.e. only positive</p> <p>I can describe translations to the left/right and up/down</p>	I can plot given coordinates to create simple polygons
Interpreting Data	I can interpret and make simple bar charts with intervals of 20, 25 and 50	I can interpret and make simple bar charts with when data falls between simple intervals	<p>I can interpret and construct simple line graphs</p> <p>I can interpret and make bar charts with intervals of 0.5s</p>	I can interpret and make bar charts with intervals of 0.25s
Extracting Info From Data	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		I can solve one-step and two-step questions for example, How many more? How many fewer? using information presented in bar charts, pictograms, tables and line graphs with simple scales	I can solve one-step and two-step questions for example, How many more? How many fewer? using information presented in bar charts, pictograms, tables and line graphs with scales of 0.5 and 0.25