Coventry Counts

Curriculum objectives

COVENTRY Building Society

Year	No. of worksheets	Total number of objectives	Activity Sheet	Landmark	Curriculum objectives	This activity meets the following objectives
					List of what needs to be met in full	List of which of the objectives this activity meets
3	10	6	Place value	Coventry Transport Museum	Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number	FALSE
					Recognise the place value of each digit in a three-digit number (100s, 10s, 1s)	TRUE
					Compare and order numbers up to 1,000	TRUE
					Identify, represent and estimate numbers using different representations	FALSE
					Read and write numbers up to 1,000 in numerals and in words	TRUE
					Solve number problems and practical problems involving these ideas; find 10 or 100 more or less than a given number	FALSE
		4	Calculation, addition and subtraction	Coventry Cathedral	Add and subtract numbers mentally, including: a three-digit number and 1s a three-digit number and 10s a three-digit number and 100s	TRUE
					Add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction	TRUE
					Estimate the answer to a calculation and use inverse operations to check answers	FALSE
					Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction	TRUE
		3	Calculation, multiplication and division	War Memorial Park	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	TRUE
					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.	TRUE
					Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which 'n' objects are connected to 'm' objects	TRUE
		7	Fractions	Coombe Abbey	Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10	TRUE
					Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators	Extension activity
					Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators	TRUE
					Recognise and show, using diagrams, equivalent fractions with small denominators	FALSE
					Add and subtract fractions with the same denominator within one whole	TRUE
					Compare and order unit fractions, and fractions with the same denominators	FALSE
					Solve problems that involve all of the above	FALSE
		1	Money	Coventry Building Society	Add and subtract amounts of money to give change, using both £ and p in practical contexts	TRUE
		1	Length and perimeter	Coventry Building Society Arena	Measure the perimeter of simple 2D shapes	TRUE
					Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)	Measure, compare, add and subtract: lengths (m/cm/mm)
		1	Mass and capability	Supermarket	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)	Measure and compare mass only
		4	Time	Coventry Watch Museum	Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12 and 24-hour clocks	TRUE
					Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight	TRUE
					Know the number of seconds in a minute and the number of days in each month, year and leap year	TRUE
					Compare durations of events (for example, to calculate the time taken by particular events or tasks)	TRUE
		2	Statistics	Coventry City Football Club	Interpret and present data using bar charts, pictograms and tables	TRUE
					Solve one-step and two-step questions (for example 'How many more?' and 'How many less?') using information presented in scaled bar charts and pictograms and tables	TRUE
		4	Properties of shapes	Coventry Airport	Draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them	Make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them
					Recognise angles as a property of shape or a description of a turn	FALSE
					Identify right angles, recognise that 2 right angles make a half-turn, 3 make three-quarters of a turn and 4 a complete turn; identify whether angles are greater than or less than a right angle	FALSE
					Identify horizontal and vertical lines and pairs of perpendicular and parallel lines	FALSE

Year	No. of worksheets	Total number of objectives	Activity Sheet	Landmark	Curriculum objectives	This activity meets the following objectives
					List of what needs to be met in full	List of which of the objectives this activity meets
4	10	9	Place value	Coventry Transport Museum	Count in multiples of 6, 7, 9, 25 and 1,000	FALSE
					Find 1,000 more or less than a given number	FALSE
					Count backwards through 0 to include negative numbers	FALSE
					Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s)	TRUE
					Order and compare numbers beyond 1,000	TRUE
					Identify, represent and estimate numbers using different representations	FALSE
					Round any number to the nearest 10, 100 or 1,000	Extension activity
					Solve number and practical problems that involve all of the above and with increasingly large positive numbers	FALSE
					Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of 0 and place value	TRUE
		3	Calculation, addition and subtraction	Coventry Cathedral	Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate	TRUE
					Estimate and use inverse operations to check answers to a calculation	TRUE
					Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why	TRUE
		5	Calculation, multiplication and division	War Memorial Park	Recall multiplication and division facts for multiplication tables up to 12 × 12	TRUE
					Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers	TRUE
					Recognise and use factor pairs and commutativity in mental calculations	FALSE
					Multiply two-digit and three-digit numbers by a one-digit number using formal written layout	TRUE
					Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as 'n' objects are connected to 'm' objects	TRUE
		9	Fractions and decimals	Coombe Abbey	Recognise and show, using diagrams, families of common equivalent fractions	TRUE
					Count up and down in hundredths; recognise that hundredths arise when dividing an object by 100 and dividing tenths by 10	FALSE
					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	TRUE
					Add and subtract fractions with the same denominator	FALSE
					Recognise and write decimal equivalents of any number of tenths or hundreds	FALSE
					Recognise and write decimal equivalents to ¼,⅓,¾	FALSE
					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	FALSE
					Round decimals with 1 decimal place to the nearest whole number	Extension activity
					Compare numbers with the same number of decimal places up to 2 decimal places	FALSE
					Solve simple measure and money problems involving fractions and decimals to 2 decimal places	TRUE
		1	Money	Coventry Building Society	Estimate, compare and calculate different measures, including money in pounds and pence	Only money
		3	Length, perimeter and area	Coventry Building Society Arena	Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metre	TRUE
					Find the area of rectilinear shapes by counting squares	TRUE
					Convert between different units of measure (for example, kilometre to metre; hour to minute)	FALSE
		2	Time	Coventry Watch Museum	Read, write and convert time between analogue and digital 12 and 24-hour clocks	TRUE
					Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days	TRUE
		3	Position and direction	Lady Godiva	Describe positions on a 2D grid as coordinates in the first quadrant	TRUE
					Describe movements between positions as translations of a given unit to the left/right and up/down	TRUE
					Plot specified points and draw sides to complete a given polygon	TRUE
		2	Statistics	Coventry City Football Club	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs	TRUE
					Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	TRUE
		4	Properties of shapes	Coventry Airport	Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes	TRUE
					Identify acute and obtuse angles and compare and order angles up to 2 right angles by size	TRUE
					Identify lines of symmetry in 2D shapes presented in different orientations	TRUE
					Complete a simple symmetric figure with respect to a specific line of symmetry	TRUE

Year	No. of worksheets	Total number of objectives	Activity Sheet	Landmark	Curriculum objectives	This activity meets the following objectives
					List of what needs to be met in full	List of which of the objectives this activity meets
5	10	6	Place value	Coventry Transport Museum	Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit	TRUE
					Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000	FALSE
					Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0	FALSE
					Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000	TRUE
					Solve number problems and practical problems that involve all of the above	FALSE
					Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals	TRUE
		4	Calculation, addition and subtraction	Coventry Cathedral	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)	TRUE
					Add and subtract numbers mentally with increasingly large numbers	TRUE
					Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy	TRUE
					Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	TRUE
		11	Calculation, multiplication and division	War Memorial Park	Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers	FALSE
					Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers	FALSE
					Establish whether a number up to 100 is prime and recall prime numbers up to 19	FALSE
					Multiply numbers up to 4 digits by a one or two-digit number using a formal written method, including long multiplication for two-digit	TRUE
					Multiply and divide numbers mentally, drawing upon known facts	TRUE
					Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context	TRUE
					Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000	TRUE
					Recognise and use square numbers and cube numbers, and the notation for squared (^{2}) and cubed (^{3})	TRUE
					Solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes	FALSE
					Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign	FALSE
					Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates	TRUE
		12	Fractions, decimals and percentages	Coombe Abbey	Compare and order fractions whose denominators are all multiples of the same number	TRUE
					Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths	FALSE
					Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number	TRUE
					Add and subtract fractions with the same denominator, and denominators that are multiples of the same number	TRUE
					Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	Extension activity
					Read and write decimal numbers as fractions	FALSE
					Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	FALSE
					Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place	FALSE
					Read, write, order and compare numbers with up to 3 decimal places	FALSE
					Solve problems involving number up to 3 decimal places	FALSE
					Recognise the per cent symbol (%) and understand that per cent relates to ‘number of parts per 100’, and write percentages as a fraction with denominator 100, and as a decimal fraction	FALSE
					Solve problems which require knowing percentage and decimal equivalents of ½, ¼, ⅕, ⅖, ⅘ and those fractions with a denominator of a multiple of 10 or 25	TRUE
		2	Perimeter and area	Coventry Building Society Arena	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres	TRUE
					Calculate and compare the area of rectangles (including squares), including using standard units, square centimetres (cm^2) and square metres (m^2), and estimate the area of irregular shapes	TRUE
		1	Volume	Supermarket	Estimate volume (for example, using 1 cm^3 blocks to build cuboids (including cubes)) and capacity (for example, using water)	TRUE
		4	Converting units	Coventry Building Society	Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	TRUE
					Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints	TRUE
					Solve problems involving converting between units of time	TRUE
					Use all four operations to solve problems involving measure (for example, length, mass, volume, money) using decimal notation, including scaling	TRUE
		2	Statistics	Coventry City Football Club	Solve comparison, sum and difference problems using information presented in a line graph	TRUE
					Complete, read and interpret information in tables, including timetables	TRUE
		1	Position and direction	Lady Godiva	Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed	TRUE
		8	Properties of shapes	Coventry Airport	Identify 3D shapes, including cubes and other cuboids, from 2D representations	TRUE
					Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles	FALSE
					Draw given angles, and measure them in degrees (°)	TRUE
					Identify: angles at a point and 1 whole turn (total 360°), angles at a point on a straight line and half a turn (total 180°), other multiples of 90°	TRUE
					Use the properties of rectangles to deduce related facts and find missing lengths and angles	TRUE
					Distinguish between regular and irregular polygons based on reasoning about equal sides and angles	TRUE

Year	No. of worksheets	Total number of objectives	Activity Sheet	Landmark	Curriculum objectives	This activity meets the following objectives
					List of what needs to be met in full	List of which of the objectives this activity meets
6	10	4	Place value	Coventry Transport Museum	Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit	TRUE
					Round any whole number to a required degree of accuracy	TRUE
					Use negative numbers in context, and calculate intervals across 0	Extension activity
					Solve number and practical problems that involve all of the above	FALSE
		9	Calculations	War Memorial Park	Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication	TRUE
					Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context	TRUE
					Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context	FALSE
					Perform mental calculations, including with mixed operations and large numbers	TRUE
					Identify common factors, common multiples and prime numbers	TRUE
					Use their knowledge of the order of operations to carry out calculations involving the 4 operations	FALSE
					Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	FALSE
					Solve problems involving addition, subtraction, multiplication and division	TRUE
					Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy	FALSE
		11	Fractions, decimals and percentages	Coombe Abbey	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination	FALSE
					Compare and order fractions, including fractions >1	TRUE
					Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions	TRUE
					Multiply simple pairs of proper fractions, writing the answer in its simplest form	FALSE
					Divide proper fractions by whole numbers	FALSE
					Associate a fraction with division and calculate decimal fraction equivalents (for example, 0.375) for a simple fraction	FALSE
					Identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places	Extension activity
					Multiply one-digit numbers with up to 2 decimal places by whole numbers	TRUE
					Use written division methods in cases where the answer has up to 2 decimal places	FALSE
					Solve problems which require answers to be rounded to specified degrees of accuracy	TRUE
					Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts	FALSE
		4	Ratio	Supermarket	Solve problems involving the relative sizes of 2 quantities where missing values can be found by using integer multiplication and division factor	TRUE
					Solve problems involving the calculation of percentages (for example, of measures and such as 15% of 360) and the use of percentages for comparison	FALSE
					Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples	FALSE
					Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples	
		4	Perimeter, area and volume	Coventry Building Society Arena	Recognise that shapes with the same areas can have different perimeters and vice versa	TRUE
					Recognise when it is possible to use formulae for area and volume of shapes	FALSE
					Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm^3) and cubic metres (m^3), and extending to other units (for example, mm^3 and km^3)	TRUE
					Calculate the area of parallelograms and triangles	TRUE
		3	Converting units	Coventry Building Society	Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate	TRUE
					Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 decimal places	TRUE
					Convert between miles and kilometres	TRUE
		2	Statistics	Coventry City Football Club	Interpret and construct pie charts and line graphs and use these to solve problems	TRUE
					Calculate and interpret the mean as an average	TRUE
		5	Algebra	Coventry Cathedral	Use simple formulae	TRUE
					Generate and describe linear number sequences	TRUE
					Express missing number problems algebraically	TRUE
					Find pairs of numbers that satisfy an equation with 2 unknowns	TRUE
					Enumerate possibilities of combinations of 2 variables	FALSE
		2	Position and direction	Lady Godiva	Describe positions on the full coordinate grid (all 4 quadrants)	TRUE
					Draw and translate simple shapes on the coordinate plane, and reflect them in the axis	TRUE
		5	Properties of shapes	Coventry Airport	Draw 2D shapes using given dimensions and angles	FALSE
					Recognise, describe and build simple 3D shapes, including making nets	TRUE
					Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons	FALSE
					Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius	FALSE
					Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles	FALSE

Kindness changes lives

We're passionate about making a real difference to the lives of young people in and around Coventry. That's why we work with local schools to help support children's education.

All together, better

Coventry Building Society.
Principal Office: Economic House, PO Box 9, High Street, Coventry CV1 5QN.