



Years 3 & 4 Maths Curriculum Overview

		Year 3	Year 4
Autumn 1	Theme	Place Value	
	Content	Recognise the place value of each digit in a three-digit number (hundreds, tens, ones). Compare and order numbers up to 1000. Identify, represent and estimate numbers using different representations. Read and write numbers up to 1000 in numerals and in words.	Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones). Order and compare numbers beyond 1000. Identify, represent and estimate numbers using different representations. Round any number to the nearest 10, 100 or 1000. Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.
	Vocabulary	<i>measure, size, compare, guess, estimate, enough, not enough, too much, too little, too many, too few, nearly, roughly, close to, about the same as, just over, just under</i>	
	Theme	Addition & Subtraction	
	Content	Add and subtract numbers mentally, including: - a three-digit number and ones - a three-digit number and tens - a three-digit number and hundreds Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Estimate the answer to a calculation and use inverse operations to check answers. Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.	Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate. Estimate and use inverse operations to check answers to a calculation. Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.
	Vocabulary	<i>add, addition, more, plus, increase, sum, total, altogether, score, double, near double, how many more to make...? subtract, subtraction, take away, minus, decrease, leave, how many are left/left over? difference between, half, halve, how many, more/fewer is... than...? how much more/less is...? is the same as, equals, sign, tens boundary, hundreds boundary, inverse</i>	



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Autumn 2	Theme	Multiplication & Division	
	Content	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.	Recall multiplication and division facts for multiplication tables up to 12×12 . 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.
	Vocabulary	<i>lots of, groups of times, multiplication, multiply, multiplied by, multiple of, product, once, twice, three times, four times, five times... ten times, times as (big, long, wide, and so on), repeated addition, array, row, column, double, halve, share, share equally, one each, two each, three each... group in pairs, threes... tens, equal groups of, divide, division, divided by, divided into, divisible by, remainder factor, quotient, inverse</i>	
	Theme	Measurement- Area	
	Content	Understand what area is. Measure, compare, add and subtract (mm, cm, m).	Find the area of rectilinear shapes by counting squares.
	Vocabulary	<i>measure, measurement, size, compare, unit, standard unit, metric unit, imperial unit, measuring scale, division, guess, estimate, enough, not enough, too much, too little, too many, too few, nearly, roughly, about, close to, about the same as, approximately, just over, just under, length, width, height, depth, breadth, long, short, tall, high, low, wide, narrow, deep, shallow, thick, thin, longer, shorter, taller, higher... and so on, longest, shortest, tallest, highest... and so on, far, further, furthest, near, close, distance apart... between... to... from, edge, perimeter, kilometre (km), metre (m), centimetre (cm), millimetre (mm), mile, ruler, metre stick, tape measure</i>	
Spring 1	Theme	Multiplication & Division	
	Content	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. Solve problems, including missing number problems, involving multiplication and division.	Recognise and use factor pairs and commutativity in mental calculations. Multiply two-digit and three-digit numbers by a one-digit number using formal written layout. Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit.



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	Vocabulary	<i>lots of, groups of times, multiplication, multiply, multiplied by, multiple of, product, once, twice, three times, four times, five times... ten times, times as (big, long, wide, and so on), repeated addition, array, row, column, double, halve, share, share equally, one each, two each, three each... group in pairs, threes... tens, equal groups of, divide, division, divided by, divided into, divisible by, remainder factor, quotient,</i>	
	Theme	Length and Perimeter	
	Content	Understand what perimeter is. Measure the perimeter of a 2D shape. Measure, compare, add and subtract: lengths (m/cm/mm)	Estimate, measure, compare, add and subtract perimeter of rectilinear shapes in cm and m.
	Vocabulary	<i>Length, perimeter, 2D shape, rectilinear, millimetres, centimetres, metres, kilometres, measure, measurement, size, compare, unit, standard unit, measuring scale, estimate, ruler</i>	
Spring 2	Theme	Fractions	
	Content	Recognise, find and write fractions of a discrete set of objects. Explore unit fractions and non unit fractions with small denominators Recognise and show, using diagrams, equivalent fractions with small denominators. Add and subtract fractions with the same denominator within one whole. Compare and order unit fractions, and fractions with the same denominators. Solve problems that involve all of the above.	Recognise and show, using diagrams, families of common equivalent fractions. 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. Add and subtract fractions with the same denominator. Solve simple measure and money problems involving fractions and decimals to two decimal places.
	Vocabulary	<i>part, equal parts, fraction, one whole, half, quarter, eighth, third, sixth, fifth, tenth, twentieth, proportion, in every, for every</i>	
	Theme	Mass & Capacity	
	Content	Measure, compare, add and subtract mass and capacity.	Convert between different units of measure. Estimate, compare and calculate mass and capacity.
	Vocabulary	<i>heavy, light, heavier than, lighter than, milligram, gram, kilogram, full, empty, mass, more than, less than, weight, capacity</i>	



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Summer 1	Theme	Time	
	Content	Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks. 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, a.m./p.m., morning, afternoon, noon and midnight. Know the number of seconds in a minute and the number of days in each month, year and leap year. Compare durations of events.	Read, write and convert time between analogue, 12hr digital & 24hr digital. Convert between different units of measure. Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.
	Vocabulary	<i>days of the week: Monday, Tuesday... months of the year: January, February... seasons: spring, summer, autumn, winter, day, week, fortnight, month, year, leap year, century, millennium, weekend, birthday, holiday, calendar, date, date of birth, morning, afternoon, evening, night, am, pm, noon, midnight, today, yesterday, tomorrow, before, after, next, last, now, soon, early, late, earliest, latest, quick, quicker, quickest, quickly, fast, faster, fastest, slow, slower, slowest, slowly, old, older, oldest, new, newer, newest, takes longer, takes less time, how long ago?/how long will it be to...? how long will it take to...? timetable, arrive, depart, hour, minute, second, o'clock, half past, quarter to, quarter past, clock, watch, hands, digital/analogue clock/watch, timer, how often? always, never, often, sometimes, usually</i>	
	Theme	Decimals	
	Content	Count up and down in tenths, and recognise that tenths arise from dividing an object into 10 equal parts. Identifying the decimal point and writing decimal equivalents for tenths. Understanding the value of digits as "ones" and "tenths". Using decimal notation in simple, real-world contexts, such as measurement and money.	Recognise that tenths arise from dividing an object by 10, and hundredths by dividing an object by 100 or dividing tenths by 10. Write and recognise decimal equivalents for fractions. Understand the effect of dividing one- or two-digit numbers by 10 and 100, identifying the value of digits in tenths and hundredths. Compare and order decimals with up to two decimal places. Round decimals with one decimal place to the nearest whole number. Solve simple measure and money problems



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			involving decimals to two decimal places, such as converting between pounds and pence. Use place value charts, number lines, and diagrams to represent decimals.
	Vocabulary	<i>Decimal, decimal point, tenths, hundredths, place value, digit, equivalent, fraction, compare, order, divide</i>	
	Theme	Money	
	Content	Add and subtract amounts of money to give change, using both £ and p in practical contexts.	Addition & Subtraction of money. Decimal notation of money. Convert between different units of measure including pounds and pence.
	Vocabulary	<i>count (on, up, back, down), sequence, step, continue, predict, multiple, multiplication, multiply, lots of, groups of, product, repeated addition, array, ... times as ... (e.g. 8 times as long), estimate, efficient, scale up, find all possibilities, money, coin, note, penny, pence, pound (£), price, cost, buy, bought, sell, sold, spend, spent, pay, change, dear, costs more, more/most expensive, cheap, costs less, cheaper,, less/least expensive, how much...? how many...?, total, amount, value, worth, measure, size, compare, measuring scale, division, approximately</i>	
Summer 2	Theme	Shape	
	Content	Draw 2-D shapes and make 3-D shapes using modelling materials. Recognise 3-D shapes in different orientations and describe them Recognise angles as a property of shape or a description of a turn. Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a	Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. Identify acute and obtuse angles and compare and order angles up to two right angles by size. Identify lines of symmetry in 2-D shapes presented in different orientations. Complete a simple symmetric figure with respect to a



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		complete turn. Identify whether angles are greater than or less than a right angle. Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.	specific line of symmetry.
	Vocabulary	<i>shape, pattern, flat, line, curved, straight, round, hollow, solid, corner, point, pointed, face, side, edge, end, sort, make, build, construct, draw, sketch, centre, radius, diameter, net, surface, angle, right-angled, base, square-based, vertex, vertices, layer, diagram, regular, irregular, concave, convex, open, close, symmetry</i>	
	Theme	Geometry- Position & Direction	
	Content	Read coordinates on grid (letters and numbers)	Describe positions on a 2-D grid as coordinates in the first quadrant. Describe movements between positions as translations of a given unit to the left/right and up/down. Plot specified points and draw sides to complete a given polygon.
	Vocabulary	<i>vertical, horizontal, parallel, perpendicular, pair, position, direction, movement, angle, turn, rotation, right-angle, half turn, quarter turn, three-quarter turn, clockwise, anticlockwise, straight line, grid, forwards, backwards, right, left</i>	
	Theme	Statistics	
	Content	Interpret and present data using bar charts, pictograms and tables. Solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables.	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.
	Vocabulary	<i>count, tally, sort, vote, survey, questionnaire, data, graph, block graph, pictogram, represent, group, set, list, chart, bar chart, tally chart, table, frequency table, label, title, axis, axes, most popular, most common, least popular, least common</i>	