

Math curriculum overview

	Aut 1	Aut 2	Spr 1	Spr 2	Sum 1	Sum 2
Year 1	Soft start – Numbers to 10	Length and height. Days of the week,	Two more, two less Doubles.	5 more, 5 less	Number Patterns	Solving subtraction problems
		Months of the year.	Explore Halves.	Position, direction and	Ordering	
	One more, one less.	Number stories.		movement	Adding and	Coins and notes
		Sequencing.	Explore Quarters		subtracting with 20	
	Tens and ones.	Time	2-d shapes	Giving and following		Ten more, ten less
				directions	Adding and	
			Repeating patterns	D:00	subtracting with 11	Arrays and grouping
			3-d shapes	Different turns	to 19	Sharing twos and tens
			3-d shapes and	Programming floor		
			towers	robots	Adding and	Multiplying and
				Comparing	subtracting on a number line	dividing
				Comparing length and	number iine	Multiplication and
				Measuring length and height	Solving addition	division as grouping.
				Measuring mass	problems	uivision as grouping.
				Measuring capacity and	problems	
				volume		
Year 2	Exploring numbers	Working towards the	Fractions –	Linking division and	Units of time	Consolidation of
		written method for	Correct vocabulary	fractions:	Digital time for these,	mental calculation
	Place Value	addition and	Problem solving using		e.g. 5:25, 4:45	strategies as Terms 2
		subtraction in Year 3	bar model	Sharing between 2, 5		and 4
	10s and 1s	Correct vocabulary:	throughout	and 10.	Place Value	
		addend + addend =			as in Term 1 and	Consolidation of arrays
	Comparing numbers	sum	Focus on halves and	addition of 2-digit +	Term 3	with single digit x
			quarters.	ones, 2-digit + 10s		singles digit and 2-digit
	Ordering numbers	3D shape:		Link to money	Numbers as words	x singles digit
	Apply to measures	2D shape:	Mental calculation		Solving missing	
		Use drawings on	strategies,	Scaling up and scaling	number problems	Consolidation of
	Partitioning numbers	paper.	multiplication facts	down. Link to doubling	and	grouping using arrays
			for 2, 5 and 10	and fractions.	linking to algebra	with 2-digit numbers
		Symmetry	Focus on			Include remainders
			commutativity:	Work within the context	Partitioning to add	

	1			of management half as	and aubtroat	Canaalidata ahanina
			Davidska a and balida a	of measure – half as	and subtract	Consolidate sharing
			Doubling and halving,	much, 4 times as much,	Addition and	from term 2,
			Division	a quarter of the size etc.	subtraction problems	
					6 11 11	Consolidation of
					Consolidation of	scaling up and scaling
			Reinforce, rehearse		addition of 2-digit +	down
			and consolidate		ones, 2-digit + 10s, 2-	
					digit + 2-digit	Consolidation of 3D
						and 2D shape including
						problem solving
						Consolidation of
						position, direction and
						movement including
						problem solving
Year 3	Place value	Subtracting 3 digit	Rehearse, reinforce	Lines	Review Units 1, 5 and	Addition and
	Tens and Hundreds	numbers	and develop mental		10 to ensure mastery	subtraction of fractions
			calculations	Turning	of place value	with different
	Hundreds, Tens and	Rehearse, reinforce	strategies for			denominators. (halves,
	Ones.	and develop mental	multiplication and		Adding 3 digit	quarters and eighths
		calculation strategies	division.	Counting in steps of	numbers Checking	
	Comparing and	for addition and		different sizes.	methods using	Thirds, sixths and
	ordering numbers	subtraction	Missing number		subtraction using	twelfths using visuals
			problems and scaling.	Writing and comparing	calculator	
	Representing	2s, 4s and 8s		number.		Written method for
	numbers.		Showing numbers in	Tenths	Subtracting 3 digit	multiplication.
		Commutativity	different ways.		numbers Checking	-
	Mental calculation	·	Unit and non-unit		using addition using	Checking methods
	strategies	Sharing and	fractions	Reading and writing	calculator	using division using
		possibilities.		numbers		calculator
	Developing written		Adding and		Units 2, 6 and 11 to	
	methods		subtracting fractions.	Using place value	ensure mastery of	Towards the written
		Multiplication tables			addition and	method for division.
	Adding 3 digit		Making and		subtraction	Checking methods
	numbers	Multiplying and	describing 3D shapes.		Include mental	using multiplication
		dividing by 5 and 20			calculation strategies	using calculator

			Angles.		Representing whole numbers and tenths	Multiplication and division. Include mental calculation
					Finding and using unit and non - unit fractions	strategies All about 2D shapes Measuring perimeter
					Equivalent fractions	
Year 4	Place Value whole numbers	Mental calculation strategies recall multiplication	Place Value as in term 1 and including 100ths	Mental Calculation Common factors and multiples	Place Value including working with 100ths	Mental calculation strategies Counting in 25s and
	Place Value numbers	and division facts for			Roman Numerals	100s
	with up to 2 decimal	multiplication tables	Algebra: finding pairs	Algebra- finding pairs	including with clocks	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	places	up to 12 × 12	of numbers that satisfy an equation	of numbers that satisfy an equation with two	and problem solving	Written calculation for multiplication with
	Place Value whole	Working towards the	with two unknowns	unknowns	Fractions	division as a check
	numbers and	written methods	With two diknowns	dikilowiis	Addition and	within different
	numbers with up to 2	arrays to grid method	Solving missing	Written methods for	subtraction	contexts.
	decimal places	to written	number problems	multiplication and		
	,		and linking to algebra	division using inverse to	Bringing in decimal	Written calculation for
	Fractions- recognise	Written methods		check	equivalences through	division with
	and show, using	division and	Negative numbers		the context of	multiplication as a
	diagrams, families of	multiplication as the	within the context of	Statistics - pictograms	measure	check within different
	common	inverse to check	temperature on	and bar graphs with		contexts.
	equivalent		different scales	symbols and divisions	Consolidation of	
	fractions.	Grouping to written		with multiples of 3 and	mental calculation	Scaling up and scaling
		method	Roman numeral	6, 4 and 8.	strategies within	down linking to
	Fractions- add and	Rehearse mental and	investigation to 100	Multiplication and	different contexts, including time	measurement and ratio.
	subtract fractions	written methods	Fractions,	division within problem	moduling time	Tatio.
	with the same	through problem	equivalences	solving and different	Consolidation of	Consolidation of 3D
	denominator, greater	solving within	between ½,1/4, 1/8,	contexts.	written methods	and 2D shape including
	than one whole	different contexts	counting in fractional		within different	problem solving.
			steps,	Scaling up and scaling	contexts	
	Fractions- add and					

	subtract fractions with denominators within multiples — halves, 4ths and 8ths and 3rds, 6ths and 12ths Mental calculation strategies	Scaling up and scaling down. 3D shape 2D shape	Improper fractions and mixed numbers Problem solving with fractions using the bar model Written methods estimate and use inverse operations to check answers to a calculation	Factor and multiple investigations Properties of triangles including symmetry: equilateral, isosceles, scalene Properties of quadrilaterals including symmetry: oblong, square, parallelogram, rhombus, kite, trapezium. Symmetry: different orientations for different polygons		Coordinates and translations.
Year 5	Place value Within the context of distance. Converting units and measure. Fraction and decimal	Exploring multiples, factors, squares and cubes. Mental calculation strategies for multiplication and	Rehearse, reinforce and develop mental calculations strategies for multiplication and division.	Angles Drawing angles. Reflecting and translating shapes.	Finding perimeters. Areas and perimeters. Volume and capacity.	Review Units 2, 6 and 11 to ensure mastery of addition and subtraction Include mental calculation strategies
	Reading, writing and ordering decimal numbers.	division. Written methods for multiplication and division.	Using scaling for multiplication and division. Comparing and	Identifying 3D shapes. Place holders and comparing.	Negative numbers and millions. All about fractions.	Exploring fractions. Working with decimals. Calculating and
	Humbers.	GIVISIOII.	ordering fractions.	Positive and negative	All about decimal	converting

	Mental calculation strategies Written methods for addition and subtraction. Mental or written methods	Prime, squares and cubes. Using fractions as operators for multiplication and division.	Improper fractions and mixed numbers. Equivalences. Percentages Regular or irregular?	numbers. Solve Problems involving units of Time and read Roman Numerals to 1000	fractions. Applying addition and subtraction. Adding and subtracting fractions.	percentages. All about factors. Mental calculation and scaling. 4-digit and long multiplication TIME
Year 6	Whole and part numbers. Comparing and ordering numbers. Rounding including decimals. Equivalent fractions. Fractions, decimals and percentages.	Fractions, decimals revisited. Applying number Finding the difference Interpret line graphs Mental operations and methods Addition and Subtraction with negative numbers Order of operations-BIDMAS Multi-step problem solving Algebra- using simple formulae/ solving simple equations	Multiplication- Large numbers and long multiplication, decimals Division- Long division, decimals Mental calculations Problem solving Calculating the mean including using decimals Scaling Ratio and proportion Geometry- recognising shapes and angles,	Numbers in everyday life Adding and subtracting minus numbers Co-ordinates, line graphs Decimals in context (using cm to m, ml to l or g to kg) Writing time to 2dp Fractions- Compare and order unit, non-unit and improper fractions, addition and subtraction of fractions, problem solving using fractions, multiply and divide fractions	Circles- radius, circumference, diameter, using a compass. Using scale factors Volume Coordinates and translations.	Transition

perimeter and area, volume and nets	Converting between fractions, decimals and percentages.	
	Algebra- linear number sequences, missing number problems, satisfying equations with more than one unknown.	