Maths Overview 2021-2022

	Busy		Year 1	Year 2	Year 3	Year 4
	Bees/Reception					
		(Early Years)				
Autumn 1	•	Getting to know you-taking time to play and getting to know the children (Cardinal principle)	Previous Reception experiences and counting within 100 • 1NPV-1 Count within 100, forwards and backwards, starting with any number.	Numbers 10 to 100 • 2NPV–1 Recognise the place value of each digit in two-digit numbers, and compose and decompose two-digit numbers.	Numbers to 1,000 • 3NPV-1 Know that 10 tens are equivalent to 1 hundred, and that 100 is 10 times the size of 10 • 3NPV-2 Recognise the place value	Review of column addition and subtraction • 3AS-2 Add and subtract up to three-digit numbers using columnar methods.
	•	Recognising repeated patterns	• 1.9 Composition of numbers: 20– 100 (limit to 10)	2NPV-2 Reason about the location of any two-digit number in the linear number system.	of each digit in three-digit numbers • 3NPV–3 Reason about the location of any three-digit number in the	1.20 Algorithms: column addition 1.21 Algorithms: column subtraction
	•	Exploring 2d shape (circles and tringles)	Comparison of quantities and part—whole relationships • 1NPV-1 Count within 100, forwards	1.8 Composition of numbers: multiples of 10 up to 100 1.9 Composition of numbers: 20–	linear number system • 3NPV–4 Divide 100 into 2, 4, 5 and 10 equal parts, and read	Numbers to 10,000 • 4NPV-1 Know that 10 hundreds are equivalent to 1 thousand, and
	•	Comparing 1,2, 3 number. Composition of 1,2, 3 • 1NPV-2 Reason	 and backwards, starting with any number. 1NPV-2 Reason about the location of numbers to 20 within the linear 	Calculations within 20 • 2AS-1 Add and subtract across 10.	scales/number lines marked in multiples of 100 • 3AS-1 Calculate complements to 100.	that 1,000 is 10 times the size of 100. • 4NPV–2 Recognise the place value of each digit in four-digit numbers,
	•	Partitioning to 3	number system, including comparing using < > and =.	2AS-2 Recognise the subtraction structure of 'difference' and answer structure of the form "University of the form o	3NF–3 Apply place-value knowledge to known additive and multiplicative type by facts (applied facts by 10)	and compose and decompose four- digit numbers.
	•	Partitioning to 5	 1.1 Comparison of quantities and measures 1.2 Introducing 'whole' and 'parts': 	questions of the form, "How many more?". • 1.11 Addition and subtraction:	number facts (scaling facts by 10).	• 4NPV-4 Divide 1,000 into 2, 4, 5 and 10 equal parts, and read
	•	Number bonds to 5	part–part–whole	bridging 10 • 1.12 Subtraction as difference	Adding and subtracting across 10 • 2AS-1 Add and subtract across 10.	scales/number lines marked in multiples of 1,000 with 2, 4, 5 and 10 equal parts.
Autumn	_		Numbers 0 to 10	Fluorethy and and subtract within 10	• 3NF–1 Secure fluency in addition and subtraction facts that bridge 10,	• 4NF–3 Apply place-value
2	•	Representing numbers to 5	1NPV-2 Reason about the location of numbers to 20 within the linear number system, including comparing	• 2NF–1 Secure fluency in addition and subtraction facts within 10,	through continued practice. • 1.11 Addition and subtraction:	knowledge to known additive and multiplicative number facts (scaling facts by 100).
	•	Comparing amounts	using < > and =. • 1AS-1 Compose numbers to 10	through continued practice. • 1.7 Addition and subtraction:	bridging 10	Perimeter • 4G–2 Identify regular polygons,
	•	One more and one less	from 2 parts, and partition numbers to 10 into parts, including recognising	strategies within 10 Addition and subtraction of two-		including equilateral triangles and squares, as those in which the side-
	•	Shapes with 4 sides	odd and even numbers.	• 2AS-3 Add and subtract within 100		lengths are equal and the angles are equal. Find the perimeter of
	•	Time	Recognise, compose, decompose and manipulate 2D and 3D shapes • 1G–1 Recognise common 2D and 3D shapes presented in different orientations • 1G–2 Compose 2D and 3D shapes from smaller shapes to match an example	by applying related one-digit addition and subtraction facts: add and subtract only ones or only tens to/from a two-digit number. • 1.13 Addition and subtraction: two-digit and single-digit numbers • 1.14 Addition and subtraction: two-digit numbers and multiples of ten		regular and irregular polygons. 3, 6, 9 times tables • 4NF–1 Recall multiplication and division facts up to 12×12, and recognise products in multiplication tables as multiples of the corresponding number.

Spring 1	-Introducing 0	Numbers 0 to 20	Introduction to multiplication	Right angles	7 times table and patterns
Shi ilig T	includeding o	• 1NPV–2 Reason about the location	• 2MD–1 Recognise repeated	• 3G–1 Recognise right angles as a	4NF–1 Recall multiplication and
	Carananina numahana ta F	of numbers to 20 within the linear	addition contexts, representing them	property of shape or a description of	division facts up to 12×12, and
	-Comparing numbers to 5	number system, including comparing	with multiplication equations and	a turn, and identify right angles in 2D	recognise products in multiplication
		using < > and =.	calculating the product, within the 2,	shapes	tables as multiples of the
	-Composition of 4 and 5	• 1AS–1 Compose numbers to 10	5 and 10 multiplication tables.	Manipulating the additive	corresponding number.
		from 2 parts, and partition numbers	• 2.2 Structures: multiplication	relationship and securing mental	• 2.9 Times tables: 7 and patterns
	-Compare Mass	to 10 into parts, including recognising	representing equal groups	calculation	within/across times tables
	·	odd and even numbers.	• 2.3 Times tables: groups of 2 and	• 3AS–3 Understand the inverse	
	-Compare capacity	• 1.4 Composition of numbers: 6–10	commutativity (part 1)	relationship between addition and	
	-compare capacity	Additive structures	• 2.4 Times tables: groups of 10 and	subtraction, and how both relate to	Understanding and manipulating
		• 1AS-2 Read, write and interpret	of 5, and factors of 0 and 1	the part-part-whole structure.	multiplicative relationships
	-6, 7 and 8	equations containing addition (+),	• 2.5 Commutativity (part 2),	• 3AS-2 Add and subtract up to	• 4MD–1 Multiply and divide whole
		subtraction (-) and equals (=) symbols,	doubling and halving	three-digit numbers using columnar	numbers by 10 and 100
	-Making pairs	and relate additive expressions and	Introduction to division structures	methods.	4MD–2 Manipulate multiplication
		equations to real-life contexts.	 2MD–2 Relate grouping problems 		and division equations, and
Spring 2	-Combining two groups	• 1.5 Additive structures: introduction	where the number of groups is	2, 4, 8 times tables	understand and apply the
Spring 2	0 · · · · · · · · · · · · · · · · · · ·	to aggregation and partitioning	unknown to multiplication equations	• 3MD–1 Apply known multiplication	commutative property of
	-Length and Height	• 1.6 Additive structures: introduction	with a missing factor, and to division	and division facts to solve contextual	multiplication.
	-Length and Height	to augmentation and reduction	equations (quotative division).	problems with different structures,	• 4NF–3 Apply place-value
	Time	Addition and subtraction facts within	 2.6 Structures: quotative and 	including quotative and partitive	knowledge to known additive and
	-Time	10	partitive division	division.	multiplicative number facts (scaling
	_	• 1NF–1 Develop fluency in addition	Shape	 3NF–2 Recall multiplication facts, 	facts by 100)
	-9 and 10	and subtraction facts within 10.	 2G–1 Use precise language to 	and corresponding division facts, in	
		• 1.7 Addition and subtraction:	describe the properties of 2D and 3D	the 10, 5, 2, 4 and 8 multiplication	Coordinates
	-Comparing numbers to 10	strategies within 10	shapes, and compare shapes by	tables, and recognise products in	• 4G–3 Identify line symmetry in 2D
			reasoning about similarities and	these multiplication tables as	shapes presented in different
	-Number bonds to 10		differences in properties.	multiples of the corresponding	orientations. Reflect shapes in a line
			Addition and subtraction of two-	number.	of symmetry and complete a
	-3d shape and pattern		digit numbers (2)	• 3NF–3 Apply place-value knowledge	symmetric figure or pattern with
	Su shape and pattern		• 2AS-4 Add and subtract within 100	to known additive and multiplicative	respect to a specified line of
			by applying related one-digit addition	number facts	symmetry.
			and subtraction facts: add and	• 2.7 Times tables: 2, 4 and 8, and the	
			subtract any 2 two-digit numbers.	relationship between them	
			• 1.15 Addition: two-digit and two-	Column subtraction	
			digit numbers	• 3AS–2 Add and subtract up to	
			• 1.16 Subtraction: two-digit and	three-digit numbers using columnar	
			two-digit numbers	methods.	
				• 1.21 Algorithms: column	
				subtraction	

Summer	-Building numbers beyond	Numbers 0 to 20	Money	Unit fractions	Review of fractions
	10	• 1NPV-2 Reason about the location		• 3F–1 Interpret and write proper	• 3F–1 Interpret and write proper
1		of numbers to 20 within the linear	Fractions	fractions to represent 1 or several	fractions to represent 1 or several
	-Counting patterns beyond 10	number system, including comparing		parts of a whole that is divided into	parts of a whole that is divided into
		using < > and =.	Time	equal parts.	equal parts.
		• 1.10 Composition of numbers: 11–		• 3F–2 Find unit fractions of	• 3.1 Preparing for fractions: the
	-Spatial Reasoning-match, rotate and manipulate	19		quantities using known division facts.	part–whole relationship
				• 3F–3 Reason about the location of	
				any fraction within 1 in the linear	Fractions greater than 1
				number system.	• 4F–1 Reason about the location of
	-Adding more				mixed numbers in the linear
				Non-unit fractions	number system.
	-Taking away	Unitising and coin recognition	Position and direction	• 3F–1 Interpret and write proper	• 4F–2 Convert mixed numbers to
		• 1NF–2 Count forwards and	Multiplication and division –	fractions to represent 1 or several	improper fractions and vice versa.
	-Spatial Reasoning-compose and decompose	backwards in multiples of 2, 5 and 10,	doubling, halving, quotative and	parts of a whole that is divided into	• 4F–3 Add and subtract improper
Summer		up to 10 multiples, beginning with any	partitive division	equal parts.	and mixed fractions with the same
2		multiple, and count forwards and	• 2.5 Commutativity, doubling and	• 3F–3 Reason about the location of	denominator, including bridging
	-Doubling -Sharing and grouping -Even and odd	backwards through the odd numbers.	halving	any fraction within 1 in the linear	whole numbers.
		• 2.1 Counting, unitising and coins	• 2.6 Structures: quotative and	number system.	Community to 2D about
		Position and direction	partitive division	• 3F–4 Add and subtract fractions	Symmetry in 2D shapes
		Position and direction	Sense of measure – capacity,	with the same denominator, within 1.	• 4G–3 Identify line symmetry in 2D
		Time	volume, mass	• 3.3 Non-unit fractions: identifying,	shapes presented in different orientations. Reflect shapes in a line
		Time		representing and comparing • 3.4 Adding and subtracting within	of symmetry and complete a
				one whole	symmetric figure or pattern with
	-Spatial Reasoning-visualise			one whole	respect to a specified line of
	and build			Parallel and perpendicular sides in	symmetry.
				polygons	Symmetry.
1	-Deepening understanding o patterns and relationships -spatial reasoning and mapping			• 3G–2 Draw polygons by joining	Time
				marked points, and identify parallel	
				and perpendicular sides.	Division with remainders
				, , , , , , , , , , , , , , , , , , , ,	• 4NF–2 Solve division problems,
				Time	with two-digit dividends and one-
					digit divisors, that involve
					remainders.
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