Block	Topic
1	Number and Place Value to 10
2	Addition and Subtraction to 10
3	Number and Place Value to 20
4	Addition and Subtraction to 20
5	Geometry Shape
6	<u>Fractions</u>
7	Geometry Position & Direction
8	<u>Measures - Time</u>
9	Number and Place Value beyond 20
10	Multiplication and Division
11	<u>Measures - Money</u>
12	Measures – Length, Mass, Capacity



Year 1



	Block 1			
		Number and Place Value to 10		
Substantive Knowledge National Curriculum	Ready to Progress	Key Performance Indicators	Sequence of learning Detailed in Planning Overview	
Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number	1NPV-1 Count within 100, forwards and backwards, starting with any number.	 Can count to 10 forwards starting from any number Can count backwards to zero starting from any number up to 10 	*Recap Counting from 1-10 and using this to accurately count sets of objects, pictures, sounds and actions *Counting forwards & backwards from different	
Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens	1NF-2 Count forwards and backwards in multiples of 2, 5 and 10, up to 10 multiples, beginning with any multiple, and count forwards and backwards through the odd numbers.	 Can consistently count a set of objects to 10 accurately Can read numbers from 1 – 10 in numerals Can order objects using language first, second, third Can write numbers to 10 in numerals Can complete missing number sequences to 10 	*One more/one less *Missing Number Sequences * Comparing amounts & using associated vocab * Comparing numbers & using associated vocab and symbols < > and =	
Given a number, identify one more and one less		 Can identify one more than a given number to 10 Can identify one less than a given number to 10 	*Ordering numbers including use of ordinal numbers - first, second, third * Representing numbers using	
Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least Read and write numbers from 1 to 20 in numerals and words.	1NPV-2 Reason about the location of numbers to 20 within the linear number system, including comparing using < > and =	 Can use fingers to show any number to 10 Can use practical equipment to represent a number to 10 Can compare two numbers that have been created with practical equipment and explain how they are different Can position two numbers on a marked and blank number line, compare the numbers and reason about where they have been positioned Can read numbers from 1 - 10 in numerals Can write numbers from 1 - 10 in numerals including accurate formation of all numerals 0-9 	number lines	



(NB reading and writing in words has been left until
later blocks when more in line with Y1 phonics
knowledge)



Block 2				
	Addition and Subtraction within 10			
Substantive Knowledge National Curriculum	Ready to Progress	Key Performance Indicators	Sequence of learning Detailed in Planning Overview	
Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs	1AS-2 Read, write and interpret equations containing addition (+), subtraction (-) and equals (=) symbols, and relate additive expressions and equations to reallife contexts.	 Can begin to use addition (+), subtraction (-) and equals (=) signs to record their work Can read the mathematical statements they have recorded Can read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) 	*Introduction *Addition facts to 10 - Systematic approach - Understand addition is commutative - Aggregation – combining 2 parts to make 1 whole *Adding 2 amounts - Augmentation – increasing a	
Represent and use number bonds and related subtraction facts within 20	in addition and subtraction facts within 10 1AS-1 Compose numbers to 10 from 2 parts, and partition numbers to 10 into parts, including recognising odd and even numbers.	 Can represent and use number bonds and related subtraction facts up to 5, using apparatus Can recall and use addition and subtraction facts for all numbers up to 5 Can recall and use addition and subtraction facts for all numbers up to 10 fluently Can recognise the effect of adding zero. Can develop the difference between two numbers on a number line Understands the inverse relationship between addition and subtraction Can solve missing number calculations to 10 	quantity by adding more *Solving addition word problems *Partitioning a number to find subtraction facts Partitioning - Separating 1 whole into 2 parts - Subtraction facts to 10 using partitioning * How many left? - Subtraction by reduction - decreasing a quantity by	
Add and subtract one- digit and two-digit numbers to 20, including zero Solve one-step problems that involve addition and subtraction, using concrete objects and		 Can add and subtract numbers mentally, using Reordering Can use a number line to support adding 1-digit numbers Can show that addition can be done in any order (commutative) Can show that subtraction can't be done in any order Understands and use a variety of mathematical language associated with addition and subtraction e.g. Put together, 	taking some away *Related Facts *Inverse Operations *Finding a missing number *Finding the difference *Application through substantial problems	
pictorial representations, and		add, altogether, total, take away, distance between, more than and less than		



missing number	Can solve missing number addition and subtraction problems
problems such as	involving single-digit numbers.
7 = - 9.	Can solve simple 1 step problems with addition and
	subtraction.

	Block 3			
Substantive Knowledge National Curriculum	Ready to Progress	Number and Place Value to 20 Key Performance Indicators	Sequence of learning Detailed in Planning Overview	
Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number	1NPV-1 Count within 100, forwards and backwards, starting with any number.	 Can count to 20 forwards starting from any number Can count backwards to zero starting from any number up to 20 	* Introduce the concept of 1 ten and its equivalence to ten ones * Count sets of 11-19 objects – exposing the one ten and ones structure in the teen	
Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens	1NF-2 Count forwards and backwards in multiples of 2, 5 and 10, up to 10 multiples, beginning with any multiple, and count forwards and backwards through the odd numbers.	 Can consistently count a set of objects to 20 Can read numbers from 1 - 20 in numerals Can write numbers to 20 in numerals Can complete missing number sequences forwards and backwards to 20 	numbers * Show given teen numbers using different representations *Understand that in teen numbers the 1 is 10 because where the 0 was, there is now	
Given a number, identify one more and one less		 Can identify one more than a given number to 20 Can identify one less than a given number to 20 	a different number of ones (zero as a place holder) *Counting forwards and backwards and dual counting	
Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to,	1NPV-2 Reason about the location of numbers to 20 within the linear number system, including comparing using < > and =	 Can use practical equipment to represent any number to 20 and explain the value of each digit Can use pictorial representations to represent any number to 20 and explain value of each digit Can compare two numbers that have been created with practical equipment 	*One more one less *Missing number sequences * Position 1-20 on different number lines (marked and unmarked) * Comparing amounts and using associated vocab	



more than, less than	• Can position two numbers on a marked number line,	*Comparing numbers & using
(fewer), most, least	compare the numbers and reason about where they	associated vocab and symbols
	have been positioned	< > and =
	Can compare numbers using greater than and less	*Ordering Numbers
	than and the symbols < > and =	*Read & Write numbers to 20
Read and write	• Can read numbers from 1 - 20 in numerals	in words
numbers from 1 to 20 in	• Can write numbers from 1 – 20 in numerals	* Problem solving &
numerals and words.	including accurate formation of all numerals 0-9	consolidation
	• Can read numbers from 1 - 20 in words	
	Can write numbers from 1-20 in words	



Block 4				
	Addition and Subtraction within 20			
Substantive Knowledge National Curriculum	Ready to Progress	Key Performance Indicators	Sequence of learning Detailed in Planning Overview	
Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs	1AS-2 Read, write and interpret equations containing addition (+), subtraction (-) and equals (=) symbols, and relate additive expressions and equations to real-life contexts.	 Can begin to use addition (+), subtraction (-) and equals (=) signs to record their work Can read the mathematical statements they have recorded Can read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) 	* Recap addition facts within 10 -developing fluency using a variety of strategies -Include the effect of adding zero and one *Recap addition by counting on and extend to 20 - Include the effect of adding zero	
Represent and use number bonds and related subtraction facts within 20	1NF-1 Develop fluency in addition and subtraction facts within 10 1AS-1 Compose numbers to 10 from 2 parts, and partition numbers to 10 into parts, including recognising odd and even numbers.	 Can recall and use addition and subtraction facts for all numbers up to 10 fluently Can recognise the effect of adding zero. Can represent and use number bonds and related subtraction facts up to 20, using apparatus Can recall and use addition and subtraction facts for all numbers facts to 20 fluently Can develop the difference between two numbers on a number line Understands the inverse relationship between addition and subtraction Can solve missing number calculations to 20 	*Recall number bonds to 10 and use them to make bonds to 20 *Partitioning 10 into 3 numbers – include examples where zero is one of the 3 numbers *Adding within 20 by using bonds up to 10 and partitioning to bridge *Recap subtraction by reduction (taking away) and	
Add and subtract one- digit and two-digit numbers to 20, including zero		 Can add and subtract numbers mentally, using Reordering Can add and subtract numbers mentally, using Partitioning Can add and subtract numbers mentally, using Bridging through 10 Can add and subtract numbers mentally, using near doubles 	by partitioning (not structure) and extend to 20 - Include the effects of subtracting zero	



	Can use a number line to support adding and subtracting 2-digit and 1-digit numbers	*Subtracting within 20 by using partitioning and bonds up to 10 to bridge *Understand inverse
Solve one-step	Can show that addition can be done in any order	operations and fact families
problems that involve	(commutative)	I <u>→</u>
addition and	 Can show that subtraction can't be done in any order 	*Missing Number Problems
subtraction, using	 Understands and use a variety of mathematical language 	*Consolidation and problem
concrete objects and	associated with addition and subtraction e.g. Put together,	solving
pictorial	add, altogether, total, take away, distance between, more	
representations, and	than and less than	
missing number	 Can solve missing number addition and subtraction 	
problems such as	problems involving single-digit numbers.	
7 = - 9.	 Can solve simple 1 step problems with addition and subtraction. 	



Block 5				
	Geometry - Shape			
Substantive Knowledge National Curriculum	Ready to Progress	Key Performance Indicators	Sequence of learning Detailed in Planning Overview	
Recognise and name	1G-1 Recognise common 2D	Can recognise 2D shapes in a variety of orientations	*Discover shape knowledge	
common 2-D and 3-D shapes, including:	and 3D shapes presented in different orientations, and	rectangles (including squares)circles	from EYFS *Use everyday language to	
• 2-D shapes [for example, rectangles	know that rectangles, triangles, cuboids and	- triangles	describe 2D shapes * Recognise and name	
(including squares), circles and triangles]	pyramids are not always similar to one another.	Can describe 2D shapes according to their properties (sides and corners)	common 2D shapes (rectangles (including squares), circles, triangles at	
• 3-D shapes [for example, cuboids	1G-2 Compose 2D and 3D shapes from smaller shapes to	Arrange 2D shapes to match a compound shape	a minimum) * Use correct mathematical	
(including cubes), pyramids and spheres].	match an example, including manipulating shapes to place them in particular	 Can recognise 3D shapes in a variety of orientations cylinder triangular prism 	terms to describe the properties of 2D shapes and distinguish between them	
spiicies ₁ .	orientations.	- cone - cube	* Arrange 2D shapes to match a compound shape	
		- cuboid - pyramid - sphere	* Use everyday language to describe 3D shapes * Recognise and name	
		• Can describe 3D shapes according to their properties (faces, vertices and edges)	common 3D shapes (cuboids (including cubes), cylinders, spheres and pyramids) * Use correct mathematical	
		Arrange 3D shapes to match a compound shape	terms to describe the other properties of 3D shapes and distinguish between them * Arrange 3D shapes to match a compound shape	



	Block 6			
		Fractions		
Substantive Knowledge	Ready to Progress	Key Performance Indicators	Sequence of learning Detailed in Planning Overview	
National Curriculum				
Recognise, find and name a half as one of two equal parts of an object, shape or quantity	No specific Ready to Progress statements for Fractions	 Understands fractions as equal parts of a whole Can halve a shape or object by splitting it into two equal parts. Can recognise one half as one of two equal parts of a whole Can halve a quantity by splitting it into 2 equal sets 	*Introduction *Recognise, find and name a half as one of two equal parts of an object or shape * Recognise, find and name a half as one of two equal parts of a quantity * Recognise, find and name a quarter as	
Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.		 Can quarter a shape or object by splitting it into four equal parts. Can recognise one quarter as one of four equal parts of a whole Can find a quarter of a quantity by splitting it into 4 equal sets 	one of four equal parts of an object or shape * Recognise, find and name a quarter as one of four equal parts of a quantity	



Block 7					
	Geometry - Position & Direction				
Substantive Knowledge	Ready to Progress	Key Performance Indicators	Sequence of learning Detailed in Planning Overview		
National Curriculum					
Describe position,	No specific	Can distinguish between left and right	*Describe position (above, below, in		
direction and	Ready to	Can use positional language e.g. next to, top, middle	front of, behind, in between, next to,		
movement, including	Progress	and bottom, on top of, in front of, above, between,	inside, outside etc)		
whole, half, quarter and	statements for	around, near, close and far	*Describe direction and movement		
three-quarter turns.	Position &	• Can use ordinal language e.g 1 st , 4 th	without turns (forwards, backwards,		
	Direction	Can use the language of direction and motion,	sideways, left, right, up, down)		
		including: left and right, up and down, forwards and	*Describe direction and movement with		
		backwards, inside and outside.	turns		
		Can respond to the language of turns making whole	(forwards, backwards, turn left, turn		
		turns, half turns, quarter turns and three-quarter turns	right, up, down)		
		Can connect turning clockwise with movement on a	*Describe turns (whole, half quarter and		
		clock face.	three-quarter turns)		



Block 8			
Measure - Time			
Substantive Knowledge National Curriculum	Ready to Progress	Key Performance Indicators	Sequence of learning Detailed in Planning Overview
Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]	No specific Ready to Progress statements for Time	 Can use language before, after, next, first in relation to time passing and sequencing of events in familiar stories or day-to-day routines Can use terms such as morning, afternoon and evening, yesterday and tomorrow 	*Sequence events and discuss using target language * Recognise and use language relating to days of the week * Recognise and use language relating to weeks, months and years
Recognise and use language relating to dates, including days of the week, weeks, months and years		 Can learn the order of the days of the week and learn that weekend days are Saturday and Sunday Can name and order the months of the year Can record significant dates in a class calendar 	*Measure and begin to record time durations – second, minute, hour *Solve practical problems for time using key vocab -
Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.		 Can tell time to the hour Can draw hands on the clock for times to the hour Can tell time to half past the hour Can draw hands on the clock for times to the half hour Can recognise times to the hour and half hour in day to day routines 	quicker, slower, earlier, later *Telling the time to the nearest half an hour
Measure and begin to record time (hours, minutes, seconds)		Can measure in hours, seconds and minutes	
Compare, describe and solve practical problems for: time [for example, quicker, slower, earlier, later]		 Can estimate and measure whether an activity lasts longer/ less than a minute/hour Can use language of quicker, slower, earlier and later 	



Block 9			
Number and Place Value beyond 20			
Substantive Knowledge National Curriculum	Ready to Progress	Key Performance Indicators	Sequence of learning Detailed in Planning Overview
Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number	1NPV-1 Count within 100, forwards and backwards, starting with any number.	 Can count to 100 and across 100 from any given number Can count backwards from any given number, including crossing 100 	*Count in ones forwards and backwards to 100 and beyond *Skip counting in multiples of 10 *O-10 number line can be used
Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens	1NF-2 Count forwards and backwards in multiples of 2, 5 and 10, up to 10 multiples, beginning with any multiple, and count forwards and backwards through the odd numbers.	 Can read numbers from 1 - 100 in numerals Can write numbers to 100 in numerals Can complete missing number sequences forwards and backwards to 100 Can count in twos to 20 forwards and backwards from any multiple Can count in 10s to 100 forwards and backwards from any multiple Can count in 5s to 50 forwards and backwards from any multiple Can count in odd numbers - forwards and backwards Can complete sequences in 2s, 5s, 10s 	to estimate the position of multiples of 10 on a 0-100 number line *Count objects efficiently by making groups of 10 *Understand that the position of a digit tells you the value *Show 2-digit numbers using different representations *Position 2-digit numbers on a number line *One more and one less
Given a number, identify one more and one less		 Can identify one more than a given number to 100 Can identify one less than a given number to 100 	*Ten more and ten less *Compare and order amounts and numbers
Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least	1NPV-2 Reason about the location of numbers to 20 within the linear number system, including comparing using < > and =	 Can use practical equipment to represent any number to 100 and explain value of each digit Can use pictorial representations to represent any number to 100 and explain value of each digit Can compare two numbers that have been created with practical equipment Can position numbers on a marked number line with multiples of 10 marked and reason about where they have been positioned 	*Odd & even numbers *Count in 2s forwards and backwards from any multiple *Count sets of objects by grouping in 2s *Count in 5s forwards and backwards from any multiple



Read and write	• Can read numbers from 1 - 20 in numerals	*Count sets of objects by
numbers from 1 to 20 in	• Can write numbers from 1 – 20 in numerals including accurate	grouping in 5s
numerals and words.	formation of all numerals 0-9	* Problem Solving and
	 Can read numbers from 1 – 20 in words 	Consolidation
	 Can write numbers from 1-20 in words 	



Block 10			
Multiplication and Division			
Substantive Knowledge National Curriculum	Ready to Progress	Key Performance Indicators	Sequence of learning Detailed in Planning Overview
Solve one-step	1NF-2 Count	Can use concrete objects to double numbers to 10	*Introduction
problems involving	forwards and	• Can use concrete objects to double numbers to 10	*Doubling
multiplication and	backwards in	Can use concrete objects to han numbers to 20	*Halving
division, by calculating	multiples of 2, 5 and	• Can count in steps of 10	*Counting in 2s, 5s and 10s
the answer using	10, up to 10	• Can count in steps of 2	(link to PV)
concrete objects,	multiples, beginning	• Can count in steps of 5	*Making equal groups
pictorial	with any multiple,	can count in scope of g	*Applying counting in 2s, 5s
representations and	and count forwards	Can find a total when counting in groups of 10	and 10s to solve 'groups of'
arrays with the support	and backwards	• Can find a total when counting in groups of 2	problems
of the teacher.	through the odd	• Can find a total when counting in groups of 5	*Applying counting in 2s, 5s
	numbers.	Can solve word problems involving multiplication	and 10s and unitising to solve money problems
		Can use an array to represent a multiplication fact	*Repeated addition *Arrays
		Can divide by sharing objects equally	*Division by sharing *Division by grouping
		Can divide objects by putting into groups of 2	*Problem solving
		• Can divide objects by putting into groups of 5	
		• Can share objects by putting into groups of 10	
		Can solve word problems involving division	



Block 11			
Measures - Money			
Substantive Knowledge National Curriculum	Ready to Progress	Key Performance Indicators	Sequence of learning Detailed in Planning Overview
Recognise and know the value of different denominations of coins and notes	No specific Ready to Progress statements for Money but use context to consolidate statements such as 1NF-2 Count forwards and backwards in multiples of 2, 5 and 10, up to 10 multiples and 1NF-1 Develop fluency in addition and subtraction facts within 10	 Can identify coins by sorting them Can recognise the value of each coin and that some coins have a greater value than others Can add up small amounts of money and say how much altogether Can pay for items of a small value e.g. 3p, 5p, 7p, 9p using coins Can give change using 1p coins Can answer questions such as: Michael had £5. He spent £3. How much did he have left? Rosie had a 10p coin. She spent 3p. How much change did she get? 	*Sorting and ordering coins *Understand that the value of each coin relates to that number of pennies or pounds *Understand that the value of each note relates to that number of pounds *Making amounts *Consolidating Addition and subtraction through money problems



Block 12				
Measure - Length, Mass & Capacity				
Substantive Knowledge National Curriculum	Ready to Progress	Key Performance Indicators	Sequence of learning Detailed in Planning Overview	
Compare, describe and solve practical problems for: • lengths and heights [for example, long/short, longer/shorter, tall/short, double/half] Compare, describe and solve practical problems for: • mass/weight [for example, heavy/light, heavier than, lighter than] Compare, describe and solve practical problems for: • capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] Measure and begin to record the following: • lengths and heights • mass/weight • capacity and volume	No specific Ready to Progress statements for Measures but use context to consolidate statements such as 1NF-1 Develop fluency in addition and subtraction facts within 10 and 1NPV-2 Reason about the location of numbers to 20 within the linear number system, including comparing using < > and =	 Can use direct comparison or non-standard units to compare lengths and heights Can estimate and measure whether an object is longer or shorter than a metre stick/ a class ruler Can use language of longer/ shorter, tall/ short, double/ half in relation to length and height Can compare mass of objects by holding them and using direct comparison Can use balance scales to compare the mass of objects using direct comparison or non-standard units Can estimate and measure whether an object weighs more or less than a kilogram Can use language of heavy/ light, heavier than and lighter than in relation to mass/weight Can use direct comparison or non-standard units to compare the capacity of different vessels Can estimate and measure whether a container contains more or less than a litre jug Can use language of full/empty, more than/less than, half, full, quarter in relation to capacity/volume Can use manageable standard units to measure: Length and height (cm and m) Can use manageable standard units to measure: Mass/weight (kg) Can use manageable standard units to measure: Capacity/volume (l) Can decide which measuring tool could be used in a particular situation 	*Solve practical problems using direct comparison of lengths, heights and width *Solve practical problems using nonstandard units to measure lengths, heights and widths *Measure and begin to record lengths and heights using standard units (cm & m) and use to solve practical problems *Solve practical problems using direct comparison of capacity and volume *Solve practical problems using nonstandard units to measure capacity and volume *Measure and begin to record capacity and volume using standard units (litres) and use to solve practical problems *Solve practical problems using direct comparison of weight/mass *Solve practical problems using nonstandard units to measure weight/mass *Measure and begin to record weight/mass using standard units (kg) and use to solve practical problems	

