Maths

Years R-3 yearly progression

Reception		
Autumn	**Spring**	**Summer**
Unit 1: Numbers to 5	**Unit 7: Numbers to 10**	**Unit 14: Counting on and counting back**
Counting to 5, forwards and backwards	Counting to 6,7,8,9 and 10	Counting fluently to and from 10
Stable order of counting to 5	Counting different representations up to 10	Counting on and back a given amount
One-to-one correspondence to 5	Representations of numbers to 10	Applying a first, then, now story structure to adding by counting on
Cardinality to 5	Counting using abstraction	Exploring the inverse relationship of counting on and counting back
Representations to 5	Counting up to 10 from a larger group	**Unit 15: Numbers to 20.**
Unit 2: Comparing numbers to 5	**Unit 8: Comparing numbers within 10.**	Counting beyond 10
Noticing inequality of groups	Compare groups up to 10	Counting to 20 using ten frames
Comparing groups of identical and non-identical objects	Compare and represent numbers to 10	One more and one less (11-20)
Using one-to-one correspondence to compare groups	More than and fewer than	Comparing numbers to 20
Comparing groups using more and fewer	How many more?	Representing numbers to 20
Realising that quantities can be equal	Finding the difference	**Unit 16: Numerical patterns.**
Comparing groups by matching or subitising	**Unit 9: Addition to 10**	Recognising a double, finding double facts up to double 5 and applying double facts
Representing groups to compare using cubes	Combining two parts to make a whole.	Using sharing to find half and understanding the importance of equal groups for fairness
Unit 3: 2D and 3D shapes	**Unit 10: Measure**	Beginning to understand odd and even numbers

Exploring properties of everyday shapes	Comparing length and weight	Understanding that some groups of items cannot be shared equally between 2
Exploring, describing and comparing the properties of 3D shapes	Understanding the relationship between length and height	**Unit 17: Shape**
Similarities and differences between 3D shapes and applying sorting rules	Selecting an appropriate unit of measure	Combining knowledge of shapes, their attributes and how they can be manipulated and rotated
Identifying and naming 2D shapes and describing similarities and differences	Use non-standard units to measure length distance and weight of objects	Recapping the language of simple 2D shapes
Identifying 2D shapes within 3D shapes	**Unit 11: Number Bonds to 10.**	Knowing that combining 2 or more shapes can create a new shape (composing)
Identifying 2D shapes in the environment	Exploring the composition of 10	Counting the number of shapes used (up to 10)
Unit 4: Change within 5	Using knowledge of number bonds to 10 to work out how many more	**Unit 18: Measure**
Adding one more	Consolidating number bonds to 10	Comparing volume
Finding one less	Using the part-whole model to break 10 into two parts.	Selecting an appropriate unit of measure
Finding one more and one less with number stories	Identifying the whole and part when variation is a factor	Understanding that volume can be measured in cups
Exploring one more and one less, with numbers to 5.	Using number bonds to 10 to break a whole into parts	Comparing the capacity of containers of different sizes and shapes
Unit 5: Number bonds within 5	Exploring all the number bonds to 10	**Unit 19: Sorting (optional)**

Exploring number bonds within 5 using the partwhole model	**Unit 12: Subtraction**	Explore characteristics of everyday objects
Splitting objects into two groups	Identifying pairs of numbers to 10	Sorting objects where there are two distinct groups
Breaking a whole into two distinct parts	Identifying how many are left when some are taken away	Discovering that objects can be sorted in different ways
Recognising different representations of two parts	Identifying a missing part	**Unit 20: Time (optional unit)**
Finding different ways to break groups into parts	Beginning to see the relationship between addition and subtraction number bonds to 10	Understanding the purpose of being able to tell the time
Finding number bonds to 3, 4 and 5	**Unit 13: Exploring patterns**	Ordering familiar events
Unit 6: Space	Exploring AB and ABB patterns	Begin to describe familiar events in order, using the language of time
Understanding and using positional and directional language in practical contexts	Continuing different representation up to 10 Discovering that patterns can vary	Look at events and order first to last
Using directional and positional language to describe a route	Creating patterns	Use the language of time and realise the importance of sequence
	Recognising patterns and representing them using different objects	

Year 1		
Autumn	**Spring**	**Summer**
Unit 1: Number and Place Value.	**Unit 6: Place Value (within 20)**	**Unit 11: Number: Multiplication and Division (inc multiples of 2, 5 and 10)**
Sort objects	Count forwards and backwards and write numbers to 20 in numerals and words	Count in 2s
Count objects to 10	Understand 10	Count in 10s
Represent numbers to 10	Understand 11, 12 and 13	Count in 5s
Count objects to 10 from a larger group	Understand 14, 15 and 16	Make equal groups
Count on from any given number	Understand 17, 18 and 19	Add equal groups
Count one more	Understand 20	Make arrays
Count backwards from 10 to 0	One more and one less within 20	Make doubles
Count one less	The number line to 20	Make equal groups- grouping
Compare groups	Label number lines	Make equal groups- sharing
Fewer or more?	Estimate on a number line	**Unit 12: Number: Fractions**
Understanding, using and applying <, > or =	Compare numbers to 20	Recognise and find 1/2 of a shape
Compare numbers to 10	Order numbers to 20	Recognise and find half of a quantity
Order objects and numbers	**Unit 7: Number: Addition and Subtraction**	Recognise and find 1/4 of a shape
The number line	Add by counting on within 20	Recognise and find a quarter of a quantity
Unit 2: Number: Addition and Subtraction.	Add ones using number bonds	**Unit 13: Geometry: Position and direction**
Parts and wholes- within 10	Find and make number bonds to 20	Describe turns
The Part-whole model	Doubles	Describe Position - left and right
Write number sentences within 10	Near doubles	Describe Position - forwards and backwards

Fact families: Addition facts	Subtract ones using number bonds	Describe position - above and below
Number bonds	Subtraction - count back	Ordinal numbers
Find number bonds	Subtraction - find the difference	**Unit 14: Number: Place Value (within 100)**
Number Bonds to 10.	Related facts - fact families	Counting from 50 to 100
Unit 3: Number: Addition and Subtraction Continued	Missing number problems	10s to 100
Add together	Solve word and picture problems - addition and subtraction	Partition into 10s and 1s
Add more	**Unit 8: Number: Place Value (to 50)**	Number line to 100
Addition Problems	Count to 50	One more, one less
Find the missing number	Numbers to 50	Compare numbers
Unit 4: Addition and Subtraction Continued	20, 30, 40, 50	**Unit 15: Measurement: Money**
How many are left? Subtraction within 10	Count by making groups of 10	Recognising coins
How many are left? Fractions	Groups of tens and ones	Recognising notes
Break apart?	Partition into tens and ones	Counting in coins
Break apart?	One more, one less	**Unit 16: Measurement: Time**
Fact families	**Unit 9: Measurement: Length and Height.**	Before and after
Subtraction on a number line	Compare lengths and heights	Days of the week
Add or subtract 1 or 2	Measure length (non-standard units of measurement)	Months of the year
Solve addition and subtraction word problems.	Measure length (using a ruler)	Time to the half hour
Unit 5: Geometry: Properties of shape	Solve word problems - length	Tell the time to the half hour
Recognise and name 3D shapes	**Unit 10: Measurement: Mass and Capacity.**	
Sort 3D shapes	Compare and describe heavier and lighter	
Recognise and name 2D shapes	Measure Mass	
Sort 2D shapes	Compare mass	
Make patterns with shapes.	Full and empty	

	Measure capacity	
	Compare capacity	
	Solve word problems: mass and capacity	

Year 2		
Autumn	**Spring**	**Summer**
Unit 1: Numbers to 100	**Unit 5: Money**	**Unit 10: Number: Fractions**
Numbers to 20	Count money- pence	Introducing parts and wholes
Count in 10s	Count money- pounds (notes and coins)	Equal and unequal parts
Count in 10s and 1s	Count money- pounds and pence	Recognise a half
Recognise 10s and 1s	Choose notes and coins	Find a half
Build a number from 10s and 1s	Make the same amount	Recognise a quarter
Use a place value grid	Compare amounts of money	Find a quarter
Partition numbers to 100	Calculate with money	Thirds
Write numbers to 100 in expanded form	Make 1	Find the whole
10s on a number line to 100	Find Change	Unit and non-unit fractions
10s and 1s on a number line to 100	Two-step problems	Recognise the equivalence of a half and two quarters
Estimate numbers on a number line	**Unit 6: Number: Multiplication and division (1)**	Recognise three quarters
Compare numbers (1)	Recognise equal groups	Count in fractions up to a whole
Compare numbers (2)	Make equal groups	**Unit 11: Time**
Order Numbers	Add equal groups	O'clock and half past
Count in 2s 5s and 10s	the x sign	Quarter past and quarter to
Count in 3s	multiplication sentences	Tell the time to 5 minutes

Unit 2: Addition and Subtraction (1)	use arrays	Minutes in 1 hour
Fact Families	make equal groups- grouping	Hours in a day
Learn number Bonds	Make equal groups- sharing	**Unit 12: Problem solving and efficient methods**
Add and Subtract 2 multiples of 10	**Unit 7: Number: Multiplication and division (2)**	Use number facts
Compliments to 100 (tens)	2 times table	Use a 100 square
Add and subtract 1s	Divide by 2	Getting started
Add by making 10	Double and halve	missing numbers
Add using a number line	Odd and even numbers	Mental addition and subtraction (1)
Add three 1-digit numbers	10 times table	Mental addition and subtraction (2)
Add to the next 10	Divide by 10	Efficient subtraction
Add Across a 10	5 times table	Solve problems- addition and subtraction
Subtract across a 10	Divide by 5	Solve problems- multiplication and division
Subtract from a 10	Bar Modelling- grouping	Solve problems using the 4 operations
Subtract a 1-digit number from a 2-digit number- across 10	Bar Modelling- sharing	**Unit 13: Position and Direction**
Unit 3: Addition and Subtraction (2)	**Unit 8: Measurement: Length and Height**	Language of position
10 more, 10 less	Measure in cm	Describe movement
Add and subtract 10s	Measure in m	Describe turns
Add two 2-digit numbers- add 10s and add 1s	Compare lengths and heights	Describe movement and turns
Add two 2-digit numbers- add more 10s then more 1s	Order Lengths and Heights	Make patterns by turning shapes

Subtract a 2-digit number from a 2-digit number- not across 10	Four operations with lengths and heights	**Unit 14: Statistics**
Subtract a 2-digit number from a 2-digit number- across 10	**Unit 9: Measurement: Mass, capacity and temperature**	Make Tally charts
How many more? How many fewer?	Compare mass	Tables
Subtraction- find the difference	Measure in grams	Block diagrams
Compare number sentences	Measure in kilograms	Draw pictograms (1 to 1)
Missing number problems	Compare volume and capacity	Interpret pictograms (1 to 1)
Mixed addition and subtraction	Measure in mililitres	draw pictograms (1 to 2, 5 or 10)
Two- step problems	Measure in Litres	Interpret pictograms (1 to 2, 5 or 10)
Unit 4: Geometry: Properties of shape	Measure temperature using a thermometer	
Recognise 2D and 3D shapes	read thermometers	
Count sides on 2D shapes		
Count vertices on 2D shapes		
Draw 2D shapes		
Lines of symmetry on shapes		
Sort 2D shapes		
Make patterns with 2D shapes		
Count faces on 3D shapes		
Count edges on 3D shapes		
Count vertices on 3D shapes		
Sort 3D shapes		
Make patterns with 3D shapes		