



'Effective mastery curricula in mathematics are designed in relatively small carefully sequenced steps, which must each be mastered before pupils move to the next stage. Fundamental skills and knowledge are secured first. This often entails focusing on curriculum content in considerable depth at early stages.' (NCETM, 2014)

	<u>Week 1</u>	Week 2	Week 3	Week 4	<u>Week 5</u>	<u>Week 6</u>	<u>Week 7</u>	Week 8	Week 9	<u>Week 10</u>	<u>Week 11</u>	<u>Week 12</u>
<u>Autumn</u>	Number: Place Value	Number: Place Value	Number: Place Value	Number: Place Value	Number: Addition and subtraction	Number: Addition and subtraction	Number: Addition and subtraction	Number: Addition and subtraction	Number: Addition and subtraction	Number: Multiplication and division	Number: Multiplication and division	Cyclical Consolidation
Autumn	Number: Place Value NP1 Recognise the place value of each digit in two-digit numbers, and compose and decompose twodigit numbers using standard and nonstandard partitioning. NP2 Reason about the location of any twodigit number in the linear number system, including identifying the previous and next multiple of 10.	Number: Place Value NP1 Recognise the place value of each digit in two-digit numbers, and compose and decompose twodigit numbers using standard and nonstandard partitioning. NP2 Reason about the location of any twodigit number in the linear number system, including identifying the previous and next multiple of 10	Number: Place Value NP1 Recognise the place value of each digit in two-digit numbers, and compose and decompose twodigit numbers using standard and nonstandard partitioning. NP2 Reason about the location of any twodigit number in the linear number system, including identifying the previous and next multiple of 10	Number: Place Value NP1 Recognise the place value of each digit in two-digit numbers, and compose and decompose twodigit numbers using standard and nonstandard partitioning. NP2 Reason about the location of any twodigit number in the linear number system, including identifying the previous and next multiple of 10	Number: Addition and subtraction NF1 Secure fluency in addition and subtraction facts within 10, through continued practice. AS1 Add and subtract across 10 AS2 Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more?".	Number: Addition and subtraction NF1 Secure fluency in addition and subtraction facts within 10, through continued practice. AS1 Add and subtract across 10 AS2 Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more?". AS3 Add and subtract within 100 by applying related onedigit addition and subtracts:	Number: Addition and subtraction NF1 Secure fluency in addition and subtraction facts within 10, through continued practice. AS1 Add and subtract across 10 AS2 Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more?". AS3 Add and subtract within 100 by applying related onedigit addition and subtraction facts:	Number: Addition and subtraction NF1 Secure fluency in addition and subtraction facts within 10, through continued practice. AS1 Add and subtract across 10 AS2 Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more?". AS3 Add and subtract within 100 by applying related onedigit addition and subtraction	Number: Addition and subtraction NF1 Secure fluency in addition and subtraction facts within 10, through continued practice. AS1 Add and subtract across 10 AS2 Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more?". AS3 Add and subtract within 100 by applying related onedigit addition and subtraction	Number: Multiplication and division MD1 Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables. MD2 Relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations (quotitive	Number: Multiplication and division MD1 Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables. MD2 Relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations (quotitive	Cyclical Consolidation
					100 by applying related onedigit addition and subtraction facts: add and subtract only ones or only tens to/from a two-digit number. AS4 Add and subtract within 100 by applying related onedigit addition and subtraction facts: add and subtract any 2 twodigit numbers.	add and subtract only ones or only tens to/from a two-digit number AS4 Add and subtract within 100 by applying related onedigit addition and subtraction facts: add and subtract any 2 twodigit numbers.	add and subtract only ones or only tens to/from a two-digit number AS4 Add and subtract within 100 by applying related onedigit addition and subtraction facts: add and subtract any 2 twodigit numbers.	facts: add and subtract only ones or only tens to/from a two-digit number AS4 Add and subtract within 100 by applying related onedigit addition and subtraction facts: add and subtract any 2 twodigit numbers.	facts: add and subtract only ones or only tens to/from a two-digit number AS4 Add and subtract within 100 by applying related onedigit addition and subtraction facts: add and subtract any 2 twodigit numbers.	division).	division).	

<u>Spring</u>	Measurement: Money	Measurement: Money	Number: Multiplication and division	Number: Multiplication and division	Number: Multiplication and division	Number: Multiplication and division	Geometry: Properties of shape	Geometry: Properties of shape	Number Addition a subtractio
	NP1 Recognise the	NP1 Recognise the						WB:	
	place value of each	place value of each	MD1 Recognise	MD1 Recognise	MD1 Recognise	MD1 Recognise			NF1 Secu
	digit in two-digit	digit in two-digit	repeated addition	repeated addition	repeated	repeated addition	G1 Use precise		fluency in ad
	numbers, and	numbers, and	contexts,	contexts,	addition	contexts,	language to	G1 Use precise	and subtrac
	compose and	compose and	representing them	representing them	contexts,	representing them	describe the	language to	facts within
	decompose twodigit	decompose twodigit	with multiplication	with multiplication	representing	with multiplication	properties of 2D	describe the	through cont
	numbers using	numbers using	equations and	equations and	them with	equations and	and 3D shapes,	properties of 2D	practice
	standard and	standard and	calculating the	calculating the	multiplication	calculating the	and compare	and 3D shapes, and	
	nonstandard	nonstandard	product, within the 2,	product, within the 2,	equations and	product, within	shapes by	compare shapes by	ASI Add d
	partitioning.	partitioning.	5 and 10	5 and 10	calculating the	the 2, 5 and 10	reasoning about	reasoning about	subtract acro
	NIC2 Deadan about the	NID2 Deadan about	multiplication tables.	multiplication tables.	product, within	multiplication	similarities and	similarities and	AC2 Decembri
	INFZ Reason about the	the location of any	MD2 Palata arounina	MD2 Palata arounina	multiplication	tubles.	nroperties in	un renerties	AJZ RECOUNTS
	twodiait number in	twodiait number in	problems where the	nroblems where the	tables	MD2 Pelate	proper cies.	proper ties.	structure
	the linear number	the linear number	number of arouns is	number of arouns is	tubles.	arouning problems			'difference'
	system including	system including	unknown to	unknown to	MD2 Relate	where the number			answer auesti
	identifying the	identifying the	multiplication	multiplication	aroupina	of aroups is			the form."
	previous and next	previous and next	equations with a	equations with a	problems where	unknown to			many more.
	' multiple of 10.	multiple of 10.	missing factor, and	missing factor, and to	the number of	multiplication			
			to division equations	division equations	groups is	equations with a			AS3 Add a
		AS1 Add and	(quotitive division).	(quotitive division).	unknown to	missing factor, and			subtract with
		subtract across 10			multiplication	to division			by applying re
					equations with a	equations			onedigit ada
		AS2 Recognise the			missing factor,	(quotitive division).			and subtrac
		subtraction			and to division				facts: add
		structure of			equations				subtract only
		'difference' and			(quotitive				or only te
		answer questions of			division).				to/from a two
		the form, "How many							number
		1101 6?							AS4 Add
		AS3 Add and							subtract with
		subtract within 100							by applying re
		by applying related							onedigit ada
		onedigit addition and							and subtrac
		subtraction facts:							facts: add
		add and subtract							subtract ar
		only ones or only tens							twodigit num
		to/from a two-digit							
		number							
		ACA Add and							
		AS4 Add and							
		by applying related							
		one digit addition and							
		subtraction facts:							
		add and subtract any							
		2 twodigit numbers.							

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Number: Addition and subtraction

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AS2 Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more...?".

AS3 Add and subtract within 100 by applying related onedigit addition and subtraction facts: add and subtract only ones or only tens to/from a twodigit number

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Cyclical Consolidation

Summer	Number: place value	Number:	Number:	Geometry:	Geometry:	Measurement:	Measurement:	Number:	Number
		Addition and	Multiplication and	Position and	Position and	Length and	Length and	Fractions	Fraction
	NP1 Recognise the	subtraction	division	direction	direction	Height	Height		
	place value of each								
	digit in two-digit	NF1 Secure fluency	MD1 Recognise						
	numbers, and	in addition and	repeated addition						
	compose and	subtraction facts	contexts,						
	decompose twodigit	within 10, through	representing them						
	numbers using	continued practice.	with multiplication						
	standard and		equations and						
	nonstandard	AS1 Add and	calculating the						
	partitioning.	subtract across 10	product, within the 2,						
			5 and 10						
	NP2 Reason about the	AS2 Recognise the	multiplication tables.						
	location of any	subtraction							
	twodigit number in	structure of	MD2 Relate grouping						
	the linear number	'difference' and	problems where the						
	system, including	answer questions of	number of groups is						
	identifying the	the form, "How many	<mark>unknown to</mark>						
	previous and next	more?".	multiplication						
	multiple of 10		equations with a						
		AS3 Add and	missing factor, and						
		subtract within 100	to division equations						
		by applying related	(quotitive division).						
		onedigit addition and							
		subtraction facts:							
		add and subtract							
		only ones or only tens							
		to/from a two-digit							
		number							
		AS4 Add and							
		subtract within 100							
		by applying related							
		onedigit addition and							
		subtraction facts:							
		add and subtract any							
		2 twodigit numbers.							

	Measurement:	Measurement:	Cyclical
5	Time	Time	Consolidation

- All statistics and measurement objectives are taught in an afternoon as part of the project
- Each unit has longer in order to go into greater depth. However, there is still enough time to revisit addition, subtraction, multiplication, division and fractions in summer term. Therefore, children are still receiving the cyclical approach
- Follow whiterose small steps for each unit
- In the summer term when you revisit, recap as necessary, build on previous skills, deepen knowledge
- Use NCETM spines, whiterose, I see reasoning, Classroom Secrets and Primary Stars for tailored resources
- Time is drip fed throughout the year, as well as teaching the unit block
- Quick maths is constantly used to revisit areas
- Green areas highlight RTP focus for each week •
- Bespoke plans have been adapted to support COVID recovery

Strand one - Number					Strand 2 - Measure	Strand 3 -	Geometry	Strand 4 - Statistics
Number and	Addition/ subtraction	Multiplication / division	Fractions		Measurement	Properties of shapes	Position and direction	Statistics
place value objectives	objectives	objectives			objectives	objectives	objectives	objectives
count in steps of 2, 3, and 5	solve problems with addition	recall and use multiplication	recognise, find, name and		choose and use appropriate	identify and describe the	order and arrange	interpret and construct
from 0, and in tens from	and subtraction:	and division facts for the 2,	write fractions 1/3 ,1/4 2/4		standard units to estimate	properties of 2-D shapes,	combinations of	simple pictograms, tally
any number, forward and	 using concrete objects 	5 and 10 multiplication	and 3/4 of a length, shape,		and measure length/height	including the number of	mathematical objects in	charts, block diagrams and
backward	and pictorial	tables, including recognising	set of objects or quantity		in any direction (m/cm);	sides and line symmetry in a	patterns and sequences	simple tables
	representations,	odd and even numbers			mass (kg/g); temperature	vertical line		-
recognise the place value of	including those involving		write simple fractions for		(°C); capacity (litres/ml) to		use mathematical	ask and answer simple
each digit in a two-digit	numbers, quantities and	calculate mathematical	example, $\frac{1}{2}$ of 6 = 3 and		the nearest appropriate unit,	identify and describe the	vocabulary to describe	questions by counting the
number (tens, ones)	measures	statements for multiplication	recognise the equivalence of		using rulers, scales,	properties of 3-D shapes,	position, direction and	number of objects in each
	 applying their increasing 	and division within the	2/4 and 1/2		thermometers and	including the number of	movement, including	category and sorting the
identify, represent and	knowledge of mental	multiplication tables and			measuring vessels	edges, vertices and faces	movement in a straight line	categories by quantity
estimate numbers using	and written methods	write them using the					and distinguishing between	
different representations,		multiplication (x), division (÷)			compare and order lengths,	identify 2-D shapes on the	rotation as a turn and in	ask and answer questions
including the number line	recall and use addition and	ana equais (=) signs			mass, volume/capacity and	surface of 3-D shapes, [for	terms of right angles for	about totalling and
compare and order numbers	subtraction facts to 20	show that multiplication of			record the results using G, q	example, a circle on a	quarter, half and three-	comparing categorical data.
from 0 up to 100, use a G	fluently, and derive and use	two numbers can be done in			and =	cylinder and a triangle on a	quarter turns (clockwise and	
and - sians	related facts up to 100	anu order (commutative)				pyramid]	anti-clockwise).	
unu – signs	add and automatic sumbars	and division of one number			recognise and use symbols			
read and write numbers to	using concrete phiasts	bu another cannot			for pounds (£) and pence	compare and sort common		
at least 100 in numerals	nistorial representations				(p); combine amounts to	2-D and 3-D shapes and		
and in words	and mentally including	solve problems involving			make a particular value	everyday objects.		
	a two-digit number and	multiplication and division.						
use place value and number	ones	using materials, arrays,			find different combinations			
facts to solve problems.	a two-digit number and	repeated addition, mental			of coins that equal the same			
-	tens	methods, and multiplication			amounts of money			
	 two two-digit numbers 	and division facts, including						
	adding three one-digit	problems in contexts.			solve simple problems in a			
	numbers				practical context involving			
					addition and subtraction of			
	show that addition of two				money of the same unit,			
	numbers can be done in any				including giving change			
	order (commutative) and				compare and convence			
	subtraction of one number				intervals of time			
	from another cannot				uttervals of time			
					tell and write the time to			
	recognise and use the				five minutes including			
	inverse relationship between				augreer past/to the hour and			
	addition and subtraction				draw the hands on a clock			
	and use this to check				face to show these times			
	calculations and solve				Juce to show these times			
	missing number problems.				know the number of minutes			
					in an hour and the number			
	•			-	of hours in a day.			