

## Laceyfield Mastery Maths Medium Term Plan - Year 4



'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	<u>Week 3</u>	Week 4	<u>Week 5</u>	<u>Week 6</u>	<u>Week 7</u>	<u>Week 8</u>	<u>Week 9</u>	<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 subtractio n	Number: Addition and subtraction	Measure: Perimeter and length	Measure: Perimeter and length	Number: Multiplication and division	Number: Multiplication and division	Cyclical Consolidation
<u>Spring</u>	Number: Multiplica tion and division	Number: Multiplicat ion and division	Number: Multiplicatio n and division	Number: Multiplicatio n and division	Measure: Area	Number: Fractions	Number: Fractions	Number: Fractions	Number: Fractions	Number: Decimals	Number: Decimals	Cyclical Consolidation
<u>Summer</u>	Number: Fractions /Decimals	Number: Fractions/ Decimals	Measure: Money	Measure: Money	Measure: Time	Measure: Time	Geometry: Properties of shape	Geometry: Properties of shape	Geometry: Position and direction	Number: Addition and subtraction	Number: Multiplication and division	Cyclical Consolidation

- All statistics 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 for resources/powerpoints
- Time is drip fed throughout the year, as well as teaching the unit block
- Quick maths is constantly used to revisit areas

- Ready to progress document is used to inform planning
- Bespoke plans have been adapted to support COVID recovery

	Strand on	e - Number		Strand 2 - Measure	Strand 3 -	Strand 4 - Statistics	
Number and place value objectives	Addition/ subtraction objectives	Multiplication / division objectives	Fractions (including decimals)	Measurement objectives	Properties of shapes objectives	Position and direction objectives	Statistics objectives
count in multiples	add and subtract	recall multiplication	recognise and	Convert between	compare and	describe positions	interpret and
of 6, 7, 9, 25 and	numbers with up	and division facts	show, using	different units of	classify geometric	on a 2-D grid as	present discrete
1000	to 4 digits using	for multiplication	diagrams, families	measure [for	shapes, including	coordinates in	and continuous
	the formal written	tables up to 12 ×	of common	example, kilometre	quadrilaterals and	the first quadrant	data using
find 1000 more or	methods of	12	equivalent	to metre; hour to	triangles, based on		appropriate
less than a given	columnar addition		fractions	minute]	their properties	describe	graphical
number	and subtraction	use place value,			and sizes	movements	methods,
	where appropriate	known and derived	count up and	measure and		between positions	including bar
count backwards		facts to multiply and	down in	calculate the	identify acute and	as translations of	charts and time
through zero to	estimate and use	divide mentally,	hundredths;	perimeter of a	obtuse angles and	a given unit to	graphs.
include negative	inverse operations	including:	recognise that	rectilinear figure	compare and order	the left/right and	-
numbers	to check answers	multiplying by O	hundredths arise	(including squares)	angles up to two	up/down	solve comparison,
	to a calculation	and 1; dividing by	when dividing an	in centimetres and	right angles by		sum and
recognise the place		1; multiplying	object by one	metres	size	plot specified	difference
value of each digit	solve addition and	together three	hundred and			points and draw	problems using
in a four-digit	subtraction two-	numbers	dividing tenths by	find the area of	identify lines of	sides to complete	information
number (thousands,	step problems in		ten.	rectilinear shapes	symmetry in 2-D	a given polygon.	presented in bar
hundreds, tens, and	contexts, deciding	recognise and use		by counting squares	shapes presented		charts,
ones)	which operations	factor pairs and	solve problems		in different		pictograms,
	and methods to	commutativity in	involving	estimate, compare	orientations		tables and other
order and compare	use and why.	mental calculations	increasingly	and calculate			graphs.
numbers beyond			harder fractions	different measures,	complete a simple		
1000		multiply two-digit	to calculate	including money in	symmetric figure		
		and three-digit	quantities, and	pounds and pence	with respect to a		
identify, represent		numbers by a one-	fractions to divide		specific line of		
and estimate		digit number using	quantities,	read, write and	symmetry.		
numbers using		formal written	including non-unit	convert time			
different		layout	fractions where	between analogue			
representations			the answer is a	and digital 12- and			

	solve problems	whole number	24-hour clocks		
round any number	involving multiplying				
to the nearest 10,	and adding,	add and subtract	solve problems		
100 or 1000	including using the	fractions with the	involving converting		
	distributive law to	same denominator	from hours to		
solve number and	multiply two digit		minutes; minutes to		
practical problems	numbers by one	recognise and	seconds; years to		
that involve all of	digit, integer scaling	write decimal	months; weeks to		
the above and with	problems and harder	equivalents of any	days.		
increasingly large	correspondence	number of tenths			
positive numbers	problems such as n	or hundredths			
'	objects are				
read Roman	connected to m	recognise and			
numerals to 100 (I	objects.	write decimal			
to C) and know	,	equivalents to ¼,			
that overtime, the		1/2, 3/4			
numeral system					
changed to include		find the effect of			
the concept of zero		dividing a one- or			
and place value.		two-digit number			
		by 10 and 100,			
		identifying the			
		value of the digits			
		in the answer as			
		ones, tenths and			
		hundredths			
		round decimals			
		with one decimal			
		place to the			
		nearest whole			
		number			
		i univer			
		compare numbers			
		with the same			
		number of			
					l

decimal places up
to two decimal
places
solve simple
measure and
money problems
money problems involving fractions
and decimals to
two decimal
places