

Curriculum Aims:

At LifeFull Schools, we want all our pupils to develop a love of mathematics and experience successes within the subject. We support all our pupils to become fluent mathematicians, who can use quick recall of key number facts to solve problems in a variety of contexts. Through a Teaching for Mastery approach, pupils develop reasoning skills and explore concepts in depth, enabling them to develop confidence, competence and independence with mathematics. Mistakes and misconceptions are an essential part of the learning process and learning is built upon in manageable steps, encouraging children to make connections and spot patterns. We aim to develop an ability in the children to express themselves fluently, to talk about the subject with assurance, using correct mathematical language and vocabulary. We encourage the effective use of mathematics as a tool in a wide range of problem solving activities within school and, subsequently, adult life.

Nursery

Autumn	Spring	Summer
<u>Number</u>	<u>Number</u>	<u>Number</u>
Beginning to recognise and notice numbers in	Children recognise that the last number said	Children are able to subitise up to 3
the environment	represents the total counted so far	
		Through play and exploration, children are beginning to
Points or touches each item, saying one	Children are developing an understanding of	learn that numbers are composed of smaller numbers
number for each item, using the stable number	conservation of number	(part whole model)
order		
	They are becoming more able to link numerals	They are able to match a numeral with a group of items to
Children enjoy joining in with number rhymes	with amounts up to 5 and beyond	show how many there are
and songs		
		Children are able to say the number names in order and
Numerical Patterns	Numerical Patterns	can count reliably using 1:1 correspondence
Children enjoy counting as far as they go	Children are able to show finger numbers up to	
They are able to use some number names and	5	Children experiment with their own symbols and marks as
number language within play		well as numerals to represent their own maths problems
		Numerical Patterns
		Children can confidently count to 10 and back from 10



Children are developing understanding of ordinal counting and beginning to use it	Children are able to show finger numbers up to 10
accurately in play (1st, 2nd, 3rd)	Children understand the 'howmanyness' of each number Compares small groups of objects, saying when they have
Children are developing a sense of equal parts	more or fewer

Reception

Autumn	Spring	Summer
Number	Number	Number
Children are able to subitise up to 3	Children are becoming increasingly more able to	Children have a deep understanding of numbers to 10,
	subitise and are beginning to subitise numbers 1	the composition of each number and can confidently
Through play and exploration, children are	to 5.	subitise numbers to 5
beginning to learn that numbers are composed		
of smaller numbers (part whole model)	Children continue to explore the composition of	They are able to automatically recall number bonds to 5
	number up to 6 and beyond through the use of	and some number bonds to 10, including doubling facts
They are able to match a numeral with a group	the part whole model	
of items to show how many there are		Numerical Patterns
	They are able to recall number bonds to 5 and	Children are able to verbally count beyond 20 and are
Children are able to say the number names in	their knowledge of number bonds to 10 and	beginning to recognise the patterns of the counting
order and can count reliably using 1:1	doubling facts is increasing.	system
correspondence		They are able to make comparisons between numbers to
	Numerical Patterns	10, saying when they have the same, 'more than' or 'less
Children experiment with their own symbols	As children's mathematical understanding	than'
and marks as well as numerals to represent	develops they are becoming confident comparing	Children are able to explore and represent patterns
their own maths problems	numbers.	within numbers up to 10, including evens and odds,
Numerical Patterns	They are using the language 'more than', 'less	double facts and how quantities can be distributed
Children can confidently count to 10 and back	than', 'fewer' when making comparisons about	equally.
from 10	amounts.	
Children are able to show finger numbers up to	They are also able to identify when two groups	
10	have the same amount.	



	Children can verbally count confidently to 20,	
Children understand the 'howmanyness' of	without making errors.	
each number		
They are able to count out a smaller number		
from a large group, knowing when to stop and		
showing understanding of the cardinal		
principle.		
Compares small groups of objects, saying when		
they have more or fewer		
,		

<u>Y1</u>

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
- Previous reception	- Recognise, compose,	-Additive Structures	-Addition and	- Numbers 0-20 (4	- Time (1 week)
experiences and	decompose and	(4 weeks)	subtraction facts within	weeks)	
counting within 100 (3	manipulate 2D and 3D		10 (1 weeks)		-Measures (1 week)
weeks)	shapes. (3 weeks)	-Addition and		-Position and direction (1	
		subtraction facts	- Unitising and coin	week)	-Consolidation if needed (1
Comparison of	- Numbers 0-10 (3	within 10 (2 weeks)	recognition (5 weeks)		week)
quantities and	weeks)			- Time (1 week)	
part-whole					-Numbers 10-100 (4 weeks)
relationships (2	-Consolidation (1				
weeks)	week)				
- Numbers 0-5 (2					
weeks)					



<u>Y2</u>

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
- Numbers 10 to 100	- Fluently add and	- Introduction to	- Introduction to	- Fractions (2 weeks)	- Sense of measure
(4 weeks)	subtract within 10 (1	multiplication	division structures (2		(capacity, volume and
	week)	(continued) (3 weeks)	weeks)	- Time (1 week)	mass) (2 weeks)
- Calculations within					
20 (3 weeks)	- Addition and subtraction of 2 digit numbers (1) (3 weeks) - Introduction to multiplication (3 weeks)	- Shape (2 weeks) - Introduction to division structures (1 week)	- Addition and subtraction of 2 digit numbers (2) (3 weeks) - Money (1 week)	- Position and direction (1 week) KS1 Assessments	- Multiplication and division (doubling, halving, quotative and partitive division) (3 weeks) Consolidation

Υ3

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
- Adding and	- Numbers to 1,000 (5	- Right angles (2	- Column addition (2	- Unit fractions (5	- Non-unit fractions (4
subtracting across 10	weeks)	weeks)	weeks)	weeks)	weeks)
(2 weeks)					
	-Consolidation (2 weeks)	- Manipulating the	- 2,4,8 times tables (3	- Time (1 week)	- Parallel and perpendicular
- Numbers to 1,000 (5		additive	weeks		sides in polygons (2 weeks)
weeks)		relationship and			
		securing mental	- Column subtraction (1		-Consolidation
			week)		



calculations (4		
weeks)		

Y4

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
- Review of column	- Number to 10,000	- Co-ordinates (2 weeks)	- Understanding and	- Review of fractions (1	- Fractions greater than
addition and	(1 weeks)		manipulating	week)	1 (2 weeks)
subtraction (3 weeks)		- 7 times table and	multiplicative		
	- Perimeter (2 weeks)	patterns in	relationships (3 weeks)	- Fractions greater than 1	- Time (1 week)
- Numbers to 10,000 (4		Multiplication Tables (2		(3 weeks)	
weeks)	- 3,6,9 times tables	weeks)	-11 and 12 times		- Division with
	(4 weeks)		tables (1 week)	- Symmetry in 2D shapes	remainders (2 weeks)
		- Understanding and		(2 weeks)	
		manipulating	-Consolidation		Consolidation
		multiplicative			
		relationships (2 weeks)			

Y5

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
- Decimal fractions (5	- Negative numbers (2	- Short multiplication	- Calculating with	- Factors, multiples and	- Angles (1 week)
weeks)	weeks)	and short division (1	decimal fractions (3	primes (1 week)	
		weeks)	weeks)		- Fractions (2)(4 weeks)
- Money (2 weeks)	- Short multiplication			- Fractions (1) (4 weeks)	
	and short division (5	- Area and Scaling (5	- Factors, multiples		- Converting units (2
	weeks)	weeks)	and primes (3 weeks)	- Angles (1 weeks)	weeks)



Y6

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
- Calculating using	- Multiples of 1,000	- Multiplication and	- Fractions and	- Statistics (1 week)	- Ratio and proportion
knowledge of	(1 week)	division (4 weeks)	percentages (6 weeks)		(2 weeks)
structures (1) (6				-KS2 Assessments	
weeks)	- Numbers up to	- Area, perimeter,			- Calculating using
	10,000,000 (4 weeks)	position and			knowledge of structures
- Multiples of 1,000		direction (2 weeks)			(2) (1 week)
(1 week)	- Draw, compose and				
	decompose shapes				- Solving problems with
	(2 weeks)				2 unknowns (2 weeks)
					- Order of operations (1
					week)
					- Mean average (1 week)