

Intent:

Pupils will develop their understanding of key mathematical ideas that are the foundations for place value and calculations work. These ideas will be secured through short, practical activities that allow for lots of discussions and interactions. Key concepts include:

- Understanding of parts, wholes and partitioning
- Counting accurately
- Contrasting, comparing and combining
- Ordering, sequencing and direction
- Understanding patterns and generalising.

Term	Week/s	Topic/Theme <i>Key vocabulary including Tier 3 subject specific words</i>	Learning Outcomes Knowledge and Skills To know, to use, to apply...	Links to: Literacy, Numeracy, SMSC, Gatsby Benchmarks
Autumn	1-3	Introducing Numicon Shapes Number, digit, count, more, less, forwards, backwards, Numicon, odd, even, sequence, pattern.	<ul style="list-style-type: none"> • Introducing Numicon Shapes. • Introducing number rods and ordering Numicon Shapes. • Introducing Numicon Shapes and patterns, and ordering number rod trays. 	Literacy Use new vocabulary, make marks on materials, speak coherently
	4-5	Numicon and Numerals Order, number, numeral, digit, sequence, compare, odd, even, missing, value	<ul style="list-style-type: none"> • Linking Numicon Shapes with numbers and numerals, and comparing number rods. • Securing links between Numerals, Numicon Shapes and patterns, and ordering number rods. 	Literacy Take part in a discussion, make marks on materials
	6-7	Teen numbers Group, order, number, numeral, value, equal, compare, pattern	<ul style="list-style-type: none"> • Finding how many by grouping, and teen numbers. • Using Numicon Shape patterns and teen numbers. 	Literacy Make marks on materials, use new vocabulary
	8-12	Exploring shape and colour Circle, triangle, square, rectangle, heart, star, oval, round, curved, straight, corner, side.	<ul style="list-style-type: none"> • Naming common 2D shapes. • Sorting objects by shape, colour and size. • Making sequences with colours and shapes. 	Literacy Use new vocabulary SMSC Participate positively in art, enjoy learning about the world around them. Gatsby Benchmark 4
Spring	1-3	Adding and taking away Add, total, combine, equal to, same as, subtract, take away, plus, more, less	<ul style="list-style-type: none"> • Adding with Numicon shapes. • Adding one more. • Taking away with Numicon Shapes. • Subtracting one and adding one with number rods. 	
	4-6	Halving and sharing Equal, part, whole, divide, share, half, halves	<ul style="list-style-type: none"> • Representing halves in a variety of contexts. • Sharing equally. 	SMSC Socialise with other pupils and other people, Cooperate with others, enjoy learning about the world around them.
	7-8	Understanding parts and wholes Part, whole, partition, combine, cherry model, equal, add, subtract, split.	<ul style="list-style-type: none"> • Adding - parts and wholes. • Subtracting - parts and wholes. 	Literacy Use new vocabulary
	9-12	Exploring measures Measuring cylinder, jug, scales, metre stick, ruler, weight, bigger, smaller, heavier, lighter.	<ul style="list-style-type: none"> • Exploring capacity, mass and length. • Comparing measures (bigger, smaller, heavier, lighter). 	Literacy Take part in a discussion, speak coherently Gatsby Benchmark 4

Summer	1-4	Exploring number lines Difference, less, more, order, count, add, subtract, total, equal, number line.	<ul style="list-style-type: none"> • Connecting adding, subtracting and number lines. • Subtracting - finding the difference. • How many more, how many fewer, how much less. 	Literacy Use new vocabulary
	5-7	Halving and doubling Share, halve, double, equal, parts, whole.	<ul style="list-style-type: none"> • Halving and doubling small numbers in a range of contexts. 	SMSC Enjoy learning about the world around them, cooperate with others.
	8-10	Sequences. Repeat, continue, circle, triangle, square, pattern, sequence	<ul style="list-style-type: none"> • Exploring adding and subtracting within sequences. • Describing and extending patterns and sequences. 	Literacy Take part in a discussion SMSC Participate positively in art, Enjoy learning about the world around them (geometric patterns around the world)

Intended impact:

Pupils will develop their fluency and reasoning skills so they can fully access the National Curriculum objectives covered in later years. They will be able to work cooperatively with other pupils in practical activities and will understand how to use a range of models and images appropriately. In addition, the focus on play-based learning and group activities will have helped them to develop as team workers, effective participators and self-managers.

