



EYFS Knowledge Progression

Mathematics

Nursery	Number Develop fast recognition of up to 3 objects, without having to count them individually ('subitising'). Recite numbers past 5. Say one number for each item in order: 1,2,3,4,5. Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle'). Show 'finger numbers' up to 5. Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5 Numerical Patterns Experiment with their own symbols and marks as well as numerals. Solve real world mathematical problems with numbers up to 5. Compare quantities using language: 'more than', 'fewer than'. Talk about and identify the patterns around them. Extend and create ABAB patterns – stick, leaf, stick, leaf. Notice and correct an error in a repeating pattern. Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then' Shape, space and measure Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round'. Understand position through words alone with no pointing. Select shapes appropriately: flat surfaces for building, a triangular prism for a roof, etc. Combine shapes to make new ones – an arch, a bigger triangle, etc.			
Reception	Autumn	Spring	Summer	Early Learning Goal
	I know how to count up to 10 objects carefully I can recite the number names in order to 10	I can join in with counting past 10 I can recognise numerals to 10	I can join in with some counting past 20	Number <i>Have a deep understanding of number to 20 including the composition of each number.</i>

	I know how to subitise groups of up to 4 objects I can begin to say how I know that I am right when subitising I can begin to talk about things that are the same and things that are different about different objects and quantities I know that groups of objects can be added together make a new total I know the names of the basic 2d shape I know that 2d shapes have sides and corners I can talk about capacity and weight and compare them I know how to continue a pattern I can suggest how to make a pattern I know some names of the days of the week	I can count a group of objects and say how many are in the group and use a numeral to represent this I can begin to write numerals to 10 I can subitise groups of up to 5 objects I know how to explain how I am right when I subitise I can tell you some number bonds to 5 I can compare groups by saying which has more or less I can talk about how quantities 6,7,8 and 9 can be made in different ways I know that objects can be taken away from a group to make a new total I can use what I know about 2d shapes to talk about 3d shapes I can recite the days of the week in the correct order	I can correctly write numerals to 10 by myself I know what an odd and even number is I know that doubling means having 2 groups of the same I know that halving means splitting a quantity into 2 groups I can talk about some number bonds to 10 I can talk confidently about subtraction and how this can make a new group I can talk about and show someone how to make different quantities to 10 including using subtraction facts I can name some 3d shapes and talk about faces, corners and vertices I know that there are months and I can name some	<i>Subitise (recognise quantities without counting) up to 5</i> <i>Automatically recall (without reference to rhymes, counting or other aids) number bonds to 5 (including some subtraction facts) and some number bonds to 10 including double facts</i> Numerical patterns <i>Verbally count beyond 29, recognising the patterns of the counting system</i> <i>Compare quantities up to 10 in different contexts recognising when one quantity is greater than, less than or the same as the other quantity.</i> <i>Explore and represent patterns within numbers up to 10 including evens, and odds, double facts and how quantities can distributed equally</i>
--	--	---	--	---

Year 1

Number and Place Value

- count to and across 100, forwards and backwards from any given number
- count, read and write numbers to 100 in numerals; count in multiples of 2s, 5s and 10s
- given a number, identify 1 more and 1 less
- read and write numbers from 1 to 20 in numerals

Addition and Subtraction

- use number bonds and related subtraction facts within 20
- add and subtract one-digit and two-digit numbers to 20, including 0

Multiplication and Division

- solve one-step problems involving multiplication and division

Fractions

- recognise, find and name a half of an object, shape or quantity
- recognise, find and name a quarter of an object, shape or quantity

Measures

- recognise and know the value of different denominations of coins and notes
- sequence events in chronological order
- days of the week, weeks, months and years
- tell the time to the hour and half past the hour (hours, minutes, seconds)

Geometry

- recognise and name common 2-D and 3-D shapes, including: rectangles (including squares), circles and triangles, cuboids (including cubes), pyramids and spheres]
- describe position, direction and movement, including whole, half, quarter and three-quarter turns