NEST Maths Overview

Autumn	Number and place value (within 10)	Addition and subtraction (within 10)	Half Term	Geometry: Shape	Number and place value (within 20)	Addition and subtraction (within 20)
Spring	Number and place value (within 50)	Time	Half Term	Measure: Length and height	Measure: Weight and volume	
Summer	Multiplication and division	Fractions	Half Term	Geometry: position and direction	Number and place value (within 100)	Measure: money / Transition

Number and place value (within 10)

- Children will sort groups by characteristics in different ways (sorting children into girls and boys or sorting counters by colour)
- Children will begin to count from 1 to 10 to work out how many there are and understand what zero looks like
- Children will learn that one object can be represented by another (e.g. one elephant can be represented by one cube) – concrete and pictorial
- Children will develop counting to continue a number sequence forwards and backwards – numerals, words and images and find consecutive and non-consecutive missing numbers in sequences
- Children will understand and apply the language of one more and one less
- Children will use one-to-one correspondence to match one object with another
- Children will use the language 'equal to', 'more', 'less', 'greater than', 'fewer', and 'less than' to compare groups of objects
- Children will be introduced to inequality symbols when working with smaller numbers and concrete materials – this is not in the NC until Year 2 but is a good opportunity
- Children will compare pairs of numbers and order three groups of numbers using the vocabulary 'smallest' and 'greatest'
- Children will recognise ordinal numbers – NS objective in NC but is an important skill here
- Children will use a number line to practise and consolidate skills learnt so far in this unit

Addition and subtraction (within 10)

- ➢ Children will be introduced to the part-whole model to show that a number can be partitioned into two or more parts
- ➢ Children will be introduced to the addition and subtraction symbols for the first time and combine it with the 'equal to' symbol to create their first number sentences
- ➢ Children will build on initial number sentences by looking at addition fact families and begin to see addition as being commutative
- ➢ Children will explore number bonds **within** 10 using the part-whole model and addition facts and then work systematically to find number bonds to 10
- ➢ Children will find all number bonds **to** 10 and compare them with other numbers
- ➢ Children will add by counting the total before moving on to 'counting on'
- ➢ Children will solve missing number problems by starting from a given part and counting on to the whole
- ➢ Children will be introduced to the language of subtraction and use 'taking away', 'breaking apart', 'counting back' and 'finding the difference'
- ➢ Children will find all 8 facts in fact families
- ➢ Children will use inequality symbols to compare statements

Shape

- Children will name simple 3D shapes: cuboids (including cubes), cylinders, pyramids, cones and spheres and recognise them in different orientations
- Children will sort and group 3D shapes according to simple properties, including type, size and colour
- Children will see 2D shapes on the surface of 3D shapes and will use the 3D shapes as stencils or prints to make 2D shapes
- Children will name triangles, squares, rectangles and circles and recognise them in different orientations
- Children will sort 2D shapes according to simple properties, including type, size and colour
- Children will use 2D and 3D shapes to complete and make simple patterns focusing on different shapes, sizes and colours

Number and place value (within 20)

- Children will build on their existing knowledge of counting forwards and backwards by introducing the numbers 11-20
- Children will use concrete and pictorial representations to explore the different ways to represent a number
- Children will learn that each number from 11 to 19 has 1 tens and 'some more' and will be introduced to Base 10 to represent this
- Children will apply their counting skills to find one more and one less
- Children will compare and order groups of objects and numbers to 20

Addition and subtraction (within 20)

➢ Children will explore addition further by counting on from a given number and continue to understand that addition is commutative and to start from the largest number

➢ Children will work systematically to find all the possible number bonds to 20

➢ Children will add numbers within 20 by making 10 and then counting on

➢ Children will explore subtraction further within 20 firstly without crossing 10 and then crossing 10 using pictures, the number line and subtracting to make 10 and then count back

➢ Children will explore the different structure of subtraction – taking away, partitioning and finding the difference

➢ Children will explore addition and subtraction fact families for all numbers within 20

➢ Children will continue to recognise that addition and subtraction are inverse operations

➢ Children will compare number sentences within 20 using inequality symbols