## NCETM Mastering Number Overview

(ELG in bold)

|  | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer Terms |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Subitising <br> (being able to see how many in a set without counting) | - Subitise within 3 <br> - Identify sub-groups into larger arrangements <br> - Create own patterns for numbers within 4 <br> - Use of fingers to represent quantities <br> - Experience subitizing in range of contexts | - Subitise within 5 | - Subitise by exploring patterns within 5 in random and structured arrangements | - Explore symmetrical patterns, including familiar patterns, to make link to doubles | - Practice subitising arrangements including ' 1 more' and 'double' patterns <br> - Subitise to identify when patterns show the same number in a different way <br> - Subitise to identify when patterns are similar, but have a different number <br> - Subitise structured and unstructured patterns within 10 <br> - Identify when it is right to count or subitise |
| Cardinality <br> (parts of a set) <br> Ordinality <br> (number relationships and order) <br> Counting | - Relate counting to seeing that the last number spoken is the set <br> - Develop knowledge of counting sequence through rhyme and song <br> - Develop 1:1 counting correspondence <br> - Develop understanding that anything can be counted <br> - Explore strategies to support accurate counting | - Link the cardinality of 5 to dice and fingers on 1 hand <br> - Begin to count beyond 5 <br> - Recognise numerals and relate to quantities | - Develop verbal counting to 20 and beyond <br> - Develop object counting skills to develop accuracy <br> - Link counting to parts of a set using fingers to represent numbers to 10 <br> - Order numbers linking cardinal and ordinal representations of number | - Consolidate own understanding of parts of a set with numbers over 10 <br> - Become familiar with the counting pattern beyond 20 | - Verbally count to $\mathbf{2 0}$ and beyond, from different starting numbers <br> - Develop confidence and accuracy in verbal and object counting |
| Composition <br> (knowing numbers are made of smaller numbers) | - Understand that numbers are made of ones <br> - Compose own sets within 4 | - Learn concept of 'whole' and 'part' with different objects composed of parts <br> - Understand 'whole' and 'part' using objects that cannot be taken apart <br> - Compose numbers within 5 | - Composition of 5 recalling 'hidden' parts for 5 <br> - Composition of 6 linked to familiar patterns (dice) including symmetrical <br> - Number within 10 can be composed of ' 5 and a bit' | - Composition of odd and even numbers, looking at the 'shape' <br> - Link even numbers to doubles <br> - Explore the composition of numbers within 10 |  |
| Comparison <br> (Knowing which numbers are worth more or less) | - Understand sets can be compared according to different attributes <br> - Use language of comparison <br> - Compare sets just by looking | - Compare sets in different ways e.g. 'just looking', subitizing or matching <br> - Compare sets by matching to one in the other set which contain same or equal amounts | - Compare sets using the language of comparison <br> - Play games involving comparing sets <br> - Compare by matching and identifying when sets are equal <br> - Explore ways to make unequal sets equal | - Compare numbers, reasoning which is more <br> - Compare using both an understanding of the 'howmanyness' of a number and its position within the number system | - Order sets of objects linking to their understanding of the ordinal number system |

## Other Mathematical Learning Overview

(NCETM scheme followed to match with Mastering Number)

|  | Autumn Terms | Spring Terms | Summer Terms |
| :---: | :---: | :---: | :---: |
| Pattern Sequencing | - Detect and use patterning intuitively <br> - Recognise sequenced pattern | - Recognise, describe and build repeating ABAB patterns <br> - Create own specific patterns | - Translate patterns into new media or using new materials |
| 2D Shapes | - Match shapes that are familiar when in same orientation and size <br> - Make a picture by placing shapes in outlines areas <br> - Represent some specific shapes eg: circle <br> - Match shapes in different sizes and orientation | - Compare and match a wider range of shapes with the same size and orientation <br> - Compare and match a wider range of shapes with different sizes and orientations <br> - Compares and matches combinations of shapes together <br> - Combine shapes to make parts of the picture. <br> - Trace the outer frame of a picture that contains other shapes. | - Name 2D shapes: circles, squares and triangles <br> - Construct shapes from parts <br> - Recognise more rectangle sizes, shapes and orientations <br> - Decompose a shape into smaller known shape <br> - Rotate and reflect shapes to fit into a puzzle to create a shape or picture. <br> - Name and locate a shape within a shape. |
| 3D Shapes | - Recognise a sphere or cube from a set of 3D shapes <br> - Sort and stack similar blocks <br> - Create a "house" using blocks in a horizontal pattern | - Name some 3D shapes <br> - Build arches/bridges, enclosures, corners, and crosses, using trial and error and simple addition of pieces | - Identify and count the faces on a cube or prism <br> - Build arches/bridges, enclosures, corners, and crosses with prediction and understanding <br> - Build by making specific multiple internal spaces |
| Small Step <br> Spatial <br> Visualisation | - Move shapes to a location by physical trial and error <br> - Move shapes to achieve an outcome | - Rotate shape or object through turns and reflect in horizontal or vertical line to match another shape | - Know that shapes can be turned or flipped to fit into place e.g. puzzle piece <br> - To know how a shape can be moved to fit into place before moving it |
| Measures | - Recognise length, weight and height <br> - Sort objects into long and short. thin and thick, wide and narrow, big and small, heavy and light, full and empty <br> - find something that is longer/shorter or heavier/lighter than a given reference item | - can use one thing to compare with two others, <br> - compare units of different sizes in practical contexts. <br> - use units to 'measure' and compare | - use positional language of time I can state the order of the days of the week <br> - sequence se events in terms of length eg: Playtime and the school day. |

