- Take part in finger rhymes with numbers.
- React to changes of amount in a group of up to three items
- Counting-like behaviour, such as making sounds, pointing or saying some numbers in sequence - Count in everyday contexts, sometimes skipping numbers - '1-2-3-5.'


## again.

- Compare amounts, saying 'lots', 'more' or 'same'.
- Climb and squeezing selves into different types of spaces.
- Build with a range of resources.
- Complete inset puzzles.
- Compare sizes, weights etc. using gesture and language - 'bigger/little/smaller', 'high/low', 'tall', 'heavy'.
- Notice patterns and arrange things in patterns
- 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 .
- Experiment with their own symbols and marks as well as numerals.
- Solve real world mathematical problems with numbers up to 5 .
- Talk
and explore 2D and 3D shapes (for example, circles, rectangles, triangles and
cuboids) using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round'.
- Describe a familiar route
- Discuss routes and locations, using words like 'in front of' and 'behind'.
- Make comparisons between objects relating to size, length, weight and capacity.
- 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.
- Talk about and identifies the patterns around them. For example: stripes on clothes, designs on rugs and wallpaper. Use informal language like 'pointy', 'spotty', 'blobs' etc.
- 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...'

[^0]
## Mathematics: Termly Milestones

## Number (1/4)

|  |  | Counting and Subitising | Comparing Number | Numerical Patterns |
| :---: | :---: | :---: | :---: | :---: |
| ² | 艺 | Counting Behaviours <br> - Participates in number rhymes. <br> - Sometimes points to objects as they 'count'. <br> - Points to characters in a story and make sounds. <br> - Can spontaneously recite number names, sometimes missing out numbers e.g.: ' $1,2,4,5$ ' <br> Sorting Behaviours <br> - Can place items into sets e.g.: put all the red items in a basket. | Developing vocabulary <br> - Uses 'more', 'lots' and 'same' to describe amounts. <br> - Can compare visually without counting items. |  |
|  | 흔 | Counting Behaviours <br> - Starts to show counting behaviours in everyday contexts e.g: lunchtime and tidy up time. <br> - Repeats modelled counting language. <br> - Developing more accuracy when reciting number names. <br> - Can recite a small selection of number rhymes with some support. <br> Sorting Behaviours <br> - Can attempt to count how many items in a set. <br> - Can think of own ways to sort items into sets (e.g.: colour, type of animal, large/small) | Developing vocabulary <br> - Notices changes in amount in a group and can make comments using key vocabulary learnt e.g.: 'all gone', 'more bears'. |  |
|  | E. | Counting Behaviours <br> - Can count items in different arrangements and know there are the same number of objects in a set. (Irrelevance principle) <br> - Recites numbers to 5 , usually with accuracy. <br> - Physically point at or touch each object in turn when counting (one-to-one correspondence). | Developing vocabulary <br> - Link vocabulary to real life situation e.g.: 'we need one more plate for lunch'. |  |

## Mathematics: Termly Milestones

## Number (2/4)

|  |  | Counting and Subitising |  | Numerical Patterns |
| :--- | :--- | :--- | :--- | :--- |

## Mathematics: Termly Milestones

## Number (3/4)

| Counting and Subitising |
| :--- |
| Match and Sort |
| - Find and match objects that are the same. |
| - Sort objects according to colour, size or shape. |
| Recognising 123 by counting or subitising: |
| - Identify representations of 1,2 and 3 |
| - Match number names we say to numerals and quantities |
| - | - Use their own mark making to represent 1,2 and 3

Recognise a set of 4 and 5 objects by counting or subitising: - Identify representations of 4 and 5

- Match number names we say to numerals and quantities.
- Count up to 4 and 5 objects in different arrangements by touching - Use their own mark making to represent 4 and 5


## Recognise 6 and 7 by counting or subitising:

- Identify representations of 6 and 7
- Count up to 6 and 7 objects in different arrangements by touching
- Match number names we say to numerals and quantities.
- Use their own mark making to represent 6 and 7

흔
Recognise 6 and 7 by counting or subitising.
Recognise composition of 6 and 7

- Identify representations of 8 and 9
- Match number names we say to numerals and quantities. Recognise and represent 10:
- Identify representations of 10
- Match number names we say to numerals and quantities.


## Count beyond 10:

- Count verbally beyond 20 , pausing at each multiple of 10 to draw out the structure
- Count beyond 10 using number tracks.

百
Link the number symbol (numeral) with its cardinal number value. - Recognise numerals 0-10.

- Accurately count sets of objects to 10
- Match sets of objects or actions with the correct numeral.
Comparing Number


## 

 Compare 123:- Understand that as we count, each number is one more than the one before.
- Understand that as we count back, each number is one less than the one before
- Make comparisons between groups of 1,2 and objects


## Explore 1 more or 1 less than numbers to 5:

- Understand the 'one more than/one less than' relationship
between consecutive numbers.to 5
- To compare groups of identical of objects using accurate mathematical vocabulary
- To compare groups of objects that are arranged differently and with objects of different sizes Compare numbers to 5 :
- Make comparisons between groups of 0-5 objects
- Make comparisons between groups of $0-5$ objects.
- To compare groups identical of objects and of objects that
are arranged differently and with objects of different sizes.


## are numbers to 10.

- Make comparisons between groups of 0-10 objects by
counting and comparing where they fall in the counting order - Make comparisons between groups of objects by lining them up next to each other.


## Comparing numbers to 10 :

- Divide numbers into equal groups.
- Use 'the same' to describe identical sized groups.


## Composition of number:

## - Explore and notice the different

 compositions of 4 and 5- Explore the composition of 6 and 7
- Explore the composition of 8 and 9 - Begin to explore the composition of 10
Number Bonds to 10 :
- Explore number bonds to 10 using real objects
Find how many more to make 10


## Continue explore the composition of

 numbers to 10 :- Partition and recombine sets. Automatically recall number bonds: - Automatically recall number bonds for numbers 0-5
Use visual models such a s a 10's/ - Use visual models such a s a 10's/ fingers frame to identify how
more to make numbers 0-10.


## Mathematics: Termly Milestones

## Number (4/4)

|  | Counting and Subitising | Comparing Number | Numerical Patterns |
| :---: | :---: | :---: | :---: |
| - | In the National Curriculum for Year 1: <br> Pupils should be taught to: <br> - Count to and across 100, forwards and backwards, beginning with 0 or 1 , or from any given number <br> - Count, read and write numbers to 100 in numerals <br> - Count in multiples of twos, fives and tens <br> - Identify and represent numbers using objects and pictorial representations including the number line <br> - Read and write numbers from 1 to 20 in numerals and words | In the National Curriculum for Year 1: <br> Pupils should be taught to: <br> - Given a number, identify one more and one less <br> - Use the language of: equal to, more than, less than (fewer), most, least | In the National Curriculum for Year 1: <br> Pupils should be taught to: <br> - Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs <br> - Represent and use number bonds and related subtraction facts within 20 <br> - Add and subtract one-digit and two-digit numbers to 20, including zero Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7=-9$. <br> - Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher. <br> - Recognise, find and name a half as one of two equal parts of an object, shape or quantity Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity. |

## Mathematics: Termly Milestones

Shape, Space and Measure ( $1 / 3$ )

|  |  | Position and Direction | Measure | Pattern | Shape and Space |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\|\mathbf{z}\|$ | $\stackrel{\text { ¢ }}{\substack{3}}$ |  |  | - Observes naturally occurring patterns <br> - Follow patterns of movements | - Can create a tower with stacking cups. <br> - Puts stacking cups back inside each other. |
|  | $\left.\frac{\grave{0}}{\dot{n}} \right\rvert\,$ | - Can climb 'up' and 'down' a ladder on a vocal or visual instruction. <br> - Can place teddy 'inside' or 'outside' a box on a vocal or visual instruction. | - Describe sizes of objects using words 'big/small'. <br> - Describe height of objects using 'high/low'. <br> - Describe mass of objects using 'heavy/light'. | - Can copy a simple pattern modelled by an adult. | - Can select a container to fit a certain object. <br> - Climbs into a variety of different types of spaces. <br> - Can complete a simple inset puzzle. |
|  | E |  | - Compare sizes of objects when provided with objects with a marked difference in size and height. <br> - Use bucket scales to weigh objects. <br> - Use bucket scales to decide which object is heavier/lighter. | - Recreate patterns observed in real life or in pictures. | - Can build tower and select blocks of appropriate size and shape. |
| $\left.\begin{gathered} \pm \\ \dot{n} \\ \mathbf{n} \end{gathered} \right\rvert\,$ | $\stackrel{\#}{\vec{~}}$ | - Understand position through words alone for example, "The bag is under the table," with visual cues. | - Make comparisons between objects relating to size, length, weight and capacity. | - Talk about and identifies the patterns around them. For example: stripes on clothes, designs on rugs and wallpaper. Use informal language like 'pointy', 'spotty', 'blobs' etc. | - Select shapes appropriately: flat surfaces for building, a triangular prism for a roof etc. <br> - Notice and talk about shapes in environment. <br> - Talk about and explore 2D shapes (for example, circles, rectangles, and triangles) using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round |
|  | ì |  | - Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then...' | - Extend and create ABAB patterns - stick, leaf, stick, leaf. | - Talk about and explore 3D shapes using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round'. <br> - Combine shapes to make new ones - an arch, a bigger triangle etc. |
|  | $\underset{\sim}{\xi} \mid$ | - Describe a familiar route using spatial words. <br> - Discuss routes and locations, using words like 'in front of' and 'behind'. <br> - Understand and use positional language through words alone. | - Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then...' |  |  |

## Mathematics: Termly Milestones

## Shape, Space and Measure (2/3)

|  |  | Position and Direction | Measure | Pattern | Shape and Space |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\stackrel{\text { ¢ }}{4}$ |  | - Compare and order objects according to their size. <br> - Use mathematical language to describe size <br> Compare length, weight, and capacity: <br> - Compare length using appropriate mathematical vocabulary <br> Time and Sequencing: <br> - Use time related vocabulary to talk about their day | - Copy, continue and create simple repeating patterns. <br> - Explore $A B$ patterns in a range of contexts. | - Find 2D shapes within 3D shapes. |
|  | $\stackrel{\grave{0}}{\stackrel{1}{n}}$ |  | Compare length, weight, and capacity: <br> - Compare mass using appropriate mathematical vocabulary. <br> - Compare the capacity of different containers. | - Talk about patterns in the environment. <br> - spatial reasoning skills. <br> - Copy and continue repeating patterns with varying rules (including $A B, A B B$ and $A B B C$ ) | Rectangles and Squares: <br> - Recognise shapes in everyday objects and the environment. <br> - Describe some properties of rectangles and squares <br> Shape and Spatial Reasoning: <br> - Select, rotate and manipulate shapes in order to develop spatial reasoning skills. |
|  | $\cdots$ |  | Compare length, weight and capacity. <br> - Use comparative language accurately. <br> - Make a reasonable estimate about capacity. <br> - Make a reasonable estimate about length of something. (non-standard units such as footsteps) | - Continue and create repeating patterns with varying rules (including $A B, A B B$ and $A B B C$ ) | - Copy complex 2D pictures with 3D resources Compose and decompose shapes <br> - Investigate how shapes can be combined to make new shapes. <br> - Identify shapes within shapes. <br> - Predict what shapes they will make when paper is folded. |

## Mathematics: Termly Milestones

## Shape, Space and Measure (3/3)

|  | Position and Direction | Measure | Pattern | Shape and Space |
| :---: | :---: | :---: | :---: | :---: |
| $\stackrel{\stackrel{1}{\dddot{y}}}{\stackrel{y}{*}}$ |  | In the National Curriculum for Year 1: <br> Pupils should be taught to: <br> - Compare, describe and solve practical problems for: lengths and heights [for example, long/short, longer/shorter, tall/short, double/half], mass/weight [for example, heavy/light, heavier than, lighter than],capacity and volume [for example, full/empty, more than, less than, half, half full, quarter), time [for example, quicker, slower, earlier, later] Measure and begin to record the following: lengths and heights, mass/weight, capacity and volume, time (hours, minutes, seconds) Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening] <br> - Recognise and use language relating to dates, including days of the week, weeks, months and years <br> - Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times |  | In the National Curriculum for Year 1: <br> Pupils should be taught to: <br> - Recognise and name common 2-D and 3-D shapes, including: 2-D shapes [for example, rectangles (including squares), circles and triangles] and 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]. <br> - Describe position, direction and movement, including whole, half, quarter and threequarter turns |


[^0]:    - Count objects, actions and sounds
    - Subitise.
    - Link the number symbol (numeral) with its cardinal number value.
    - Count beyond ten.
    - Compare numbers
    Understand the 'one more than/one less than' relationship
    - Explore the composition of numbers to 10
    - Explore the composition of numbers to 10
    $\underset{\sim}{\otimes}$ - Automatically recall number bonds for numbers 0-10.
    - Select, rotate and manipulate shapes in order to develop - Select, rotate and manipu
    spatial reasoning skills.
    - Compose and decompose shapes so that children
    recognise a shape can have other shapes within it, just as numbers can.
    - Continue, copy and create repeating patterns. - Compare length, weight and capacity.


    ## ELG: Number

    Children at the expected level of development will: - Have a deep understanding of number to 10, including the composition of each number;

    - Subitise (recognise quantities without counting) up to 5 ;
    - Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10 , including double

    Children at the expected level of development will: - Verbally count beyond 20, recognising the pattern of the counting system;

    - Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity;
    - Explore and represent patterns within numbers up to 10 including evens and odds, double facts and how quantities can be distributed equally.

