

Mathematical Vocabulary

Communication & Language:

3/4 year olds:

- Use a wider range of vocabulary.
- Understand 'why' questions, like 'why do you think the caterpillar is so fat?'

Reception:

- Learn new vocabulary.
- Use new vocabulary throughout the day.

ELG Speaking:

- Participate in small group, class and one-to-one discussions, offering their own ideas, using recently introduced vocabulary.

Number and Place Value

Counting

Mathematics:

3/4 year olds:

- Recite numbers past 5.
- Say one number name 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')

Reception:

- Counts objects, actions and sounds.
- Count beyond ten.

ELG Numerical Patterns:

- Verbally count beyond 20, recognising the pattern of the counting system.

Identifying, Representing and Estimating Numbers

Mathematics:

3/4 year olds:

- Fast recognition of up to 3 objects, without having to count them individually ('subitising')
- 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.

Reception:

- Subitise.
- Link the number symbol (numeral) with its cardinal number value.

ELG Number:

- Subitise (recognising quantities without counting) up to 5.

Reading and writing number**Mathematics:****3/4 year olds:**

- Link numerals and amount: 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.

Reception:

- Link the number symbol (numeral) with its cardinal number value.

Compare and order numbers**Mathematics:****3/4 year olds:**

- Compare quantities using language: 'more than', 'fewer than'.

Reception:

- Compare numbers

ELG Numerical Patterns:

- Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.

Understanding place value**Mathematics:****Reception:**

- Understand the 'one more than/one less than' relationship between consecutive numbers.
- Explore the composition of numbers to 10.

ELG Number:

- Have a deep understanding of numbers to 10, including the composition of each number.

Solve problems

Mathematics:

3/4 year olds:

- Solve real world mathematical problems with numbers up to 5.

Addition and Subtraction

**Mental
Calculations**

Mathematics:

Reception:

- Automatically recall number bonds for numbers 0-10.

ELG Number:

- 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 facts.

Solve problems

Mathematics:

Reception:

- Subitise.
- Link the number symbol (numeral) with its cardinal number value.

ELG Numerical Patterns:

- Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed evenly.

Measurement

Describe, Measure, Compare and Solve

Mathematics:

3/4 year olds:

- Make comparisons between objects relating to size, length, weight and capacity.

Reception:

- Compare length, weight and capacity.

Telling the Time

Mathematics:

3/4 year olds:

- Begin to describe a sequence of events, real or fictional, using words, such as 'first', 'then...'

Properties of Shapes

Recognise 2D and 3D shapes and their properties

Mathematics:

3/4 year olds:

- 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'.

Reception:

- Select, rotate and manipulate shapes in order to develop spatial reasoning skills.

Compare and classify shapes

Mathematics:

Reception:

- Compose and decompose shapes so that children can recognise a shape can have other shapes within it, just as numbers can.

Position and Direction

Position, Direction and Movement

Mathematics:

3/4 year olds:

- Understand position through words alone – for example, 'The bag is under the table', - with no pointing.
- Describe a familiar route.
- Discuss routes and locations, using words like 'in front of' and 'behind'.

Understanding the World:

Reception:

- Draw information from a simple map.

Patterns

Mathematics:

3/4 year olds:

- Talk about and identify 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.

Reception:

- Continue, copy and create repeating patterns.

ELG Numerical Patterns:

- Verbally count beyond 20, recognising the pattern of the counting system.

Statistics

Record, Present and interpret data

Mathematics:

3/4 year olds:

- Experiment with their own symbols and marks, as well as numerals.