

🌟 CREATIVE MINDS NURSERY MATHS CURRICULUM 🌟

(Preschool Group)

📖 Our Approach

At CMN, we nurture each child's natural curiosity about numbers, shapes, and patterns. Guided by both the **EYFS maths goals** and the **Montessori method**, we provide hands-on experiences that make maths meaningful, enjoyable, and developmentally appropriate.

🧠 Curriculum Areas

1. Number Sense and Counting

EYFS Goals:

- Verbally count to 10 and beyond
- Link numerals and amounts
- Compare quantities using terms like more, less, same

Montessori Materials:

- **Number rods** – help visualise numbers by length
- **Sandpaper numbers** – learn number symbols through touch
- **Spindle boxes** – understand quantities and the concept of zero
- **Cards and counters** – link symbols and quantities
- **Small bead stair** – colour-coded beads (1–9) that reinforce quantity and sequencing

At Nursery, Your Child Will:

- Count confidently using real objects and Montessori materials
- Match quantities to numerals (e.g., 5 beads to the number 5)
- Use bead stairs to build number families and understand value visually
- Explore the concept of zero in a tangible way

2. Numerical Operations

EYFS Goals:

- Solve simple addition and subtraction problems
- Explore doubling, halving, and sharing

Montessori Materials:

- **Golden beads** – introduce units, tens, hundreds, and thousands
- **Bank Game** – Combine quantities to symbols
- **Small Number Rods** – Introduce addition ($9+1=10$ and $8+2=10$)
- **Small bead stair** – used for basic operations like addition
- **Seguin boards (Boards A & B)** – help children build numbers 11–99 and understand place value

At Nursery, Your Child Will:

- Use hands-on materials to add and subtract real quantities
- Learn about place value using the Seguin Boards and Golden Beads
- Use bead chains to explore counting in 2s, 5s, 10s and build early multiplication skills
- Share items in snack time or play to understand division and fairness

3. Shape, Space & Measure

EYFS Goals:

- Recognise and name 2D and 3D shapes
- Use everyday language to describe size, weight, capacity, position, and time

Montessori Materials:

- **Geometric solids** – explore 3D shapes through touch
- **Constructive triangles** – understand shape composition
- **Pink tower and brown stairs** – develop visual discrimination of size
- **Knobbed Cylinders** - Gradation in size and dimension
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- **Graduated measuring tools** – real jugs, scales, and sand timers

At Nursery, Your Child Will:

- Build and explore shapes using puzzles and tactile materials
- Measure and compare items using water, sand, and everyday objects
- Describe objects using mathematical language (e.g. tall, heavier, full)
- Understand routines and sequences in time through daily rhythms

4. Patterns and Problem Solving

EYFS Goals:

- Spot and create simple patterns
- Begin to solve problems using reasoning

Montessori Materials:

- **Sorting and sequencing trays**
- **Binomial and Trinomial Cubes** – Spatial Orientation, foundation for algebra at later stage

At Nursery, Your Child Will:

- Use logic and trial-and-error to complete puzzles
- Explore repeating patterns and number relationships (e.g., odd and even)

Supporting Maths at Home

- Count everyday objects together (e.g. stairs, buttons, snacks)
- Play with puzzles and building blocks
- Use time language during your routine (e.g. “after lunch,” “before bed”)
- Let children help measure and pour during cooking or water play
- Make patterns with toys, colours, or food!

 **Please note that each child is unique and develops at their own pace. The information provided serves as a general guide; however, individual children may progress differently based on their specific needs.**