The Canadian Montessori Teacher Education Institute

## Activities Leading to Mathematical and Logical Mind

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## MONTESSORI MATH

## LEVEL I <br> QUANTITIES and SYMBOLS - 1 to 9 \& 0

1. QUANTITIES: Number Rods
2. SYMBOLS: Sandpaper Numerals
3. COMBINATION: QUANTITIES \& SYMBOLS
a) Loose Symbols Vs Fixed Quantities (Number rods + number cards)
b) Loose Quantities Vs Fixed Symbols (Spindle Box)
c) Loose Symbols \& Loose Quantities (Numbers \& Counters)
d) Memory Game (Marbles with number cards)
e) Short Bead Stair
f) Making Ten
4. The Snake Game

## LEVEL II: INTRODUCTION TO THE DECIMAL SYSTEM 1. QUANTITIES

- Golden Beads: 1, 10, 100 And 1000
- Counting Through-Golden Beads
- Bird's Eye View / Great Display
- "Playing Bank"
- "House-Keeping"


## 2. OPERATIONS WITH THE GOLDEN BEADS

- Static Addition
- Static Multiplication
- Static Division
- "House-Keeping"
- Dynamic Addition
- Dynamic Multiplication
- Dynamic Division


## 3. SYMBOLS

- Numerals: 1, 10, 100 And 1000
- Symbols: Counting Through-Numerals
- Symbols: Bird’s Eye View / Great Display


## 4. COMBINATION: QUANTITIES AND SYMBOLS

- Combination: Quantities and Symbols: Bird's Eye View/Great Display
- "Playing Bank" from Quantity to Symbols
- Formation of a Large Number
- "Playing Bank" from Quantity to Symbols and from Symbols to Quantities
- Static Addition
- Static Multiplication
- Static Subtraction
- Static Division
- "House-Keeping"
- Dynamic Addition
- Dynamic Multiplication
- Dynamic Subtraction
- Dynamic Division

5. THE STAMP GAME

- Static Addition
- Dynamic Addition
- Static Multiplication
- Dynamic Multiplication
- Static Subtraction
- Dynamic Subtraction
- Static Division
- Dynamic Division

6. DOT GAME

- Static Addition
- Dynamic Addition
- Static Multiplication
- Dynamic Multiplication
- Static Subtraction

7. SMALL BEAD FRAME

- Static Addition
- Dynamic Addition
- Static Multiplication
- Dynamic Multiplication
- Static Subtraction

LEVEL III: QUANTITIES AND SYMBOLS: 11-99

1. SEGUIN BOARD: 11-19 (TEEN BOARDS)

- Quantities from 11 to 19
- Symbols from 11 to 19
- Combination quantities and symbols from 11 to 19

2. SEGUIN BOARD: 10-90 (TEN BOARDS)

- Quantities from 10 To 90
- Symbols from 10 To 90
- Combination Quantities and Symbols from 10 to 90

3. SEGUIN BOARD: 11-99 (TEN BOARDS)

- Quantities from 11 to 99
- Symbols from 11 to 99
- Combination of quantities and symbols from 11 to 99


## 4. SEQUENCE BOARD OF 100

5. SEQUENCE CHAIN OF 100

## 6. COLORED BEADS

- Addition with recording with the Colored Beads
- Multiplication with recording with the Colored Beads
- Subtraction with recording with the Colored Beads

7. ADDITION STRIP BOARD
8. SUBTRACTION STRIP BOARD
9. MULTIPLICATION BOARD
10. DIVISION BOARD
11. BEADS CHAINS-SKIP COUNTING
