The Canadian Montessori Teacher Education Institute

Activities Leading to Mathematical and Logical Mind

Daniel Jutras, Ph.D. Master Teacher























MONTESSORI MATH

LEVEL I

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