Montessori Mathematics Curriculum

Presentations on Preparation for Math

One-to-One Correspondence

Books – Counting

Songs – *3 Little Speckled Frogs*

Sorting/Classification

Sequence/Patterns – Do As I Do

Sequence/Seriation – Bead after Bead

Presentations on Numeration Sets – Number Rods

Introduction – First Period of 3 Period Lesson

Introduction – Second Period of 3 Period Lesson

Memory – Order to Order

Memory – Order to Mixed-Order

Memory Concept of Larger and Smaller

Memory – Concept of One More and One Less

Memory – Concept of Two More and Two Less

Memory – Concept of Greater Than and Less Than

Addition – The Making of 10

Addition – The Making of ?

Subtraction

Counting Backward

Presentations on Numeration Sets – Sandpaper Numerals (0-9)

Introduction – General

Write – Sand

Association to Numeral Cards

Memory – Go Fetch

Memory – Surprise and Go Fetch

Presentations on Numeration Sets – Number Rods and Numerals

Introduction – Association with Numerals – Both Numerals and Rods in Order

Numerals in Order and Rods in Mixed-Order

Numerals in Mixed-Order and Rods in Order

Go Fetch Symbol and Quantity

Memory – Order to Order

Memory – Numerals in Mixed-Order and Rods in Order

Memory – Numerals and Rods in Mixed-Order

Addition – The Making of 10

Addition – The Making of ?

Subtraction

Presentations on Numeration Sets – Spindle Rods

Introduction – General

Different Objects

Number Jumping Game

Presentations on Numeration Sets – Numerals and Counters

Introduction – Numeral Cards

Introduction – Cut-out Numerals

Association – Numeral Cards and Cut-out Numerals

Even and Odd

Pick-up Even and Odd

Quantity – Even or Odd?

Symbol – Even or Odd?

Memory Game

Presentations on Linear Counting – Short Bead Stairs

Introduction – 1 to 9 Short Bead Bars

Bead Design Cards

Presentations on Linear Counting – Snake Game – Search for Ten

Snake Building – Even Number that Equals 10

Snake Building – Random

Presentations on Linear Counting – Teen Boards

Introduction – Quantity

Introduction – Symbols (Order)

Introduction – Symbols (Mixed-Order)

Quantity and Symbol – Order

Quantity and Symbol – Mixed-Order

Random Numeral – Go Fetch Quantity

Random Quantity – Go Fetch Numeral

Making numeral and Quantity Pictures

Presentations on Linear Counting – Number Rods – Teen Presentation

Introduction – Number Rods (Only)

Introduction – Number Rods and Numeral Cards

Presentations on Linear Counting – Ten Boards

Introduction – Quantity

Introduction – Symbols

Introduction – Quantity and Symbols – (10-99 with Unit Beads)

Making Numeral and Quantity Pictures

Presentation on Linear Counting – 100 Chain and Labels

Introduction – 100 Chain and Labels

Presentations on Linear Counting – 1000 Chain and Labels

Introduction – 1000 Chain and Labels

Compare 100 Chain to 1000 Chain

Presentations on Linear Counting – 100 Board and Numerals

Introduction – Order

Introduction – Mixed-Order

Go Fetch – Mixed-Order

Presentations on Linear Counting – Squaring Chains – 1-10

Introduction – Comparison to Squared Chain/Use of Labels

Go Fetch

Presentations on Linear Counting – Cubing Chains – 1-10

Introduction – One through Ten

Complete Layout

Presentations on Base 10 – Decimal System – Quantity (Golden Beads)

Introduction – Unit, Ten Bar, Hundred Square and Thousand Cube

Hide and Go Seek

Relationship of Materials

Complete Layout

Go Fetch

Presentation on Base 10 – Decimal System – Symbol

Introduction – 1-10-100-1000

Complete Layout

Go Fetch

Presentations on Base 10 – Decimal System – Quantity and Symbol

Introduction – General

Birds Eye View Layout

Crisis of Ten

Go Fetch – Symbol

Go Fetch – Quantity

Presentations on Base 10 – Decimal System – Formation of Numerals

Introduction – General

Presentations on Golden Beads

Addition

Introduction (Static)

Introduction Elementary (Static)

Regrouping (Dynamic)

3 or More Addends (Static/Dynamic)

Addition & Multiplication – Regrouping (Dynamic)

Subtraction

Introduction (Static)

2 Subtrahends (Static)

Regrouping (Dynamic)

Remainder of One (Dynamic)

Regrouping – Subtraction & Division – Presentation Order

Multiplication

Introduction (Static)

Multiplication Sign

Regroup or Exchange (Dynamic)

Order of Presentation

Product as Zero

Division

Introduction (Static)

Division Sign

Regroup or Exchange (Dynamic)

Remainders

2-Digit Divisor

Presentations on Stamp Game

Introduction – General

Formation of Quantity (Stamps)

Addition

Regrouping

3 Addends

Checking Work

Subtraction

Regrouping

2 Subtrahends

Checking Work

Multiplication

Regrouping

2-Digit Multiplier

Division (1-Digit Division)

Regrouping

Division (2-Digit Divisor)

Zero in Dividend

Zero in Divisor

Zero at the Unit of Divisor

Group Division

Presentations on Addition

Addition Dot Board

Multiple Addends

Addition Bead Frame

Golden Beads

Notation Paper

Reading & Writing Numbers

Addition

Addition – Regrouping Activity

Addition in Columns Activity

Subtraction

Subtraction – Regrouping

Addition Strip Board

Introduction – General

Booklet

Equation Control Chart 1

Combination of Numbers – Control Chart 1 & 2 – Recording

Combination of Numbers with Zero

Addition Control Chart 2 – Doubles of Numbers

Addition Working Chart 3 – Sum in Each Square

Addition Working Chart 3 – Doubles of Numbers

Addition Working Chart 4 – Half Table

Addition Working Chart 5 – Simplified

Oral Memorization Game – Equation then Sum

Oral Memorization Game – Sum and Possible Equations

Addition Snake Game

Addition Colored Bead Bars

Memorization of Addition

Commutative Law

Multiple Addends

Addends Larger Than 10

Exchanges

Associative Law

Parenthesis

Parenthesis in All Positions

Two Parentheses

Three Addends

Formats – Introduction

Story Problems – Introduction

Presentations on Subtraction

Subtraction Strip Board

Booklet

Equation Control Chart 1

Analysis of Number: Unit

Analysis of Number: Teens

Zero

Subtraction Working Chart 2

Bingo Game

Bingo Game 2

Bingo Game 3

Oral Memorization Game – Equation then Remainder

Oral Memorization Game – Remainder and Possible Equations

Formats – Introduction

Story Problems - Introduction

Subtraction Snake Game

Presentations on Multiplication

Multiplication Bead Board

Introduction

Booklet

Prepared Equation Slips

Combinations of Numbers

Working Chart 3

Working Chart 4

Working Chart 5 – Bingo/Blank

Working Chart 5 – Bingo/Blank 2

Stacks of Products (Stamps)

Oral Memorization – Equation then Product

Oral Memorization – Product and possible Equations

Formats – Introduction

Story Problems – Introduction

Multiplication Snake Game

Cubing Chains

Activity 1 – Introduction

Activity 2

Cubing and Squaring Chains

Geometric Forms

Colored Bead Bars

One Multiplicand

Multiplication by Ten

All Factors for One Product

No More than 10

Reverse Factors Same Product

Square of Numbers

Binomial by One Number

Presentations on Division

Division Bead Board

Introduction – General

Recording Division

Booklet

Equations

Control Chart 1

Control Chart 2

Bingo

Stacks of Quotients (Stamps)

Oral Memorization Game – Equation then Quotient

Oral Memorization Game – Quotient and Possible Equations

Formats – Introduction

Story Problems – Introduction

Multiplication and Division – Relationship