



## Math Curriculum Toddler

### 2.1 Numbers and Operations

#### Expectations for Students

##### **Young Toddler**

CC.2.1 YT.A.1 Imitate rote counting using some names of numbers.

- Attempt to count, not always in the correct order

CC.2.1 YT.A.3 Explore simple comparisons of quantity.

- Ask for “more.”
- Notice differences in size. (e.g., big, small)
- Indicate when something is gone.
- Participate in comparison activities.

CC.2.1 YT.MP Engage and persist in numerical play.

- Stack and unstack objects.
- Dump and fill objects into and out of containers.
- Place objects inside of other objects.
- Engage in experiences related to numbers. (e.g., counting songs, finger plays, reading number books)

##### **Older Toddler**

CC.2.1 OT.A.1 Know some number names and the count sequence.

- Rote count to 5.
- Recognize some numerals. (e.g., notice numerals in the environment and names some of them, point to a numeral when asked)
- Engage in experiences related to numbers. (e.g., counting songs, finger plays, reading number books)

CC.2.1 OT.A.2 Count to tell the number of objects.

- Subitize (visually quantify) to determine how many; attach a numeric value to a set of objects without counting up to 3.
- Practice one-to-one correspondence. (e.g., setting out snack, counting children, matching objects)
- Verbalize how many objects they have.
- Use counting and numbers as part of play and as a means for determining quantity.

CC.2.1 OT.A.3 Use comparative language to show understanding of more or less.

- Recognize who has more than another.
- Use terms like “more,” “less,” “bigger than,” “smaller than,” “the same.”

- Identify groups of more or less.

CC2.1 OT.MP Use mathematical processes when quantifying, comparing, and representing numbers.

- Engage in numerical play.
- Persist in numerical play. (Reference AL.2 OT.C)
- When prompted, communicate thinking while engaged in numerical play.
- Talk and listen to peers during numerical play.
- Use simple forms of numerical representations. (e.g., pictures, objects, fingers)

## 2.2 Algebraic Concepts

### Expectations for Students

#### **Young Toddler**

CC.2.2 YT.A.1 Sort manipulatives into sets.

- Group like objects into sets.
- Engage in experiences related to adding and subtracting. (e.g., songs, finger plays, books)

#### **Older Toddler**

CC.2.2 OT.A.1 Add to and take apart sets.

- Group like objects into sets.
- Engage in experiences related to adding and subtracting. (e.g., songs, finger plays, books)
- Use vocabulary that includes subtraction or addition concepts. (e.g., “I need one more.” “They’re all gone.”)

## 2.3 Geometry

### Expectations for Students

#### **Young Toddler**

CC.2.3 YT.A.1 Match identical shapes.

- Put together simple puzzles with assistance.
- Place shapes in shape sorter.

CC2.3 YT.MP Engage and persist in geometric play.

- Put together simple puzzles with assistance.
- Place shapes in shape sorter.

#### **Older Toddler**

CC2.3 OT.A.1 Recognize and identify basic shapes in the environment.

- Describe objects in the environment and name shapes.
- Complete simple puzzles.
- Manipulate objects of various shape and size.

CC2.3 OT.A.2 Create and compose simple shapes.

- Use simple shapes in drawing.
- Use 3-D materials to represent simple shapes.
- Use fingers or body to represent shapes when asked

CC2.3 OT.MP Use mathematical processes when creating and composing shapes

- Describe objects in the environment and name shapes.
- Complete simple puzzles.
- Manipulate objects of various shapes and sizes.
- Persist in geometric play. (Reference AL.2 OT.C)
- Engage in geometric play.
- Problem-solve during geometric play. (Reference AL.4 OT.C)
- When prompted, communicate thinking while engaged in numerical play.
- Talk and listen to peers during numerical play.

## 2.4 Measurement, Data, and Probability

### Expectations for Students

#### **Young Toddler**

CC2.4 YT.A.1 Engage in measurement experiences.

- Begin to use size words.
- Explore objects to determine size.
- Explore measuring tools.
- Fills and empties containers in the water table.

CC2.4 YT.A.4 Participate in sorting objects.

- Put similar objects into piles.
- Begin to sort objects by size or shape (e.g., beads, blocks, counting bears) with teacher support.

CC2.1 YT.MP Engage and persist when measuring and sorting objects

- Begin to use size words.
- Explore objects to determine size.
- Explore measuring tools.
- Fills and empties containers in the water table.
- Put similar objects into piles.
- Begin to sort objects by size or shape (e.g., beads, blocks, counting bears) with teacher support.

#### **Older Toddler**

CC2.4 OT.A.1 Use basic measurement vocabulary.

- Use size words. (e.g., many, big, and little)
- Compare sizes of objects.
- Explore objects to determine size.
- Explore measuring tools.
- Measure objects with adult assistance.
- Begin to use nonstandard (e.g., hand, shoe, yarn, block) or standard tools to measure objects.

CC2.4 OT.A.4 Classify objects and count the number of objects in each category.

- Sort objects by one attribute. (e.g., color, size, shape)
- Classify up to five objects using one attribute into categories.
- Count the number of objects in each category and with adult assistance display the number of objects in each category.

CC2.1 OT.MP Use mathematical processes when measuring, organizing data.

- Engage in measurement activities.
- Engage in activities that include organizing data.
- Persist in measurement activities. (Reference AL.2 OT.C)
- Persist in activities that include organizing data. (Reference AL.2 OT.C)
- Problem-solve during measurement activities. (Reference AL.4 OT.C)
- Problem-solve in activities that include organizing data. (Reference AL.4 OT.C)

- When prompted, communicate thinking while engaged in measurement activities and organizing.
- Talk and listen to peers.

### Activities and Experiences

Big and Little sorting  
 Books  
 Recognizing numbers and shapes  
 Circle time  
 Exploring music with numbers and shapes  
 Rote counting  
 Environment counting  
 Introducing the concept of 0  
 Object to picture counting  
 Picture cards  
 Stacking

Sorting  
 Discussions  
 Sensory bins  
 One-to- one correspondence  
 Exploring Geometric solids  
 Visual discrimination of size and graduation  
 Geometric shape cylinder  
 Exploring scales  
 Measuring and sorting objects  
 Sort objects by size or shape  
 Engage in cooking

### Materials and Resources

The Number Box  
 Can tower  
 Nesting cups  
 Ring tower  
 Disc tower  
 Knobbed cylinders  
 Number books  
 Puzzles  
 Songs  
 Music with instruments and counting the beats in the song.  
 Using different objects to count  
 Ramps and counting the objects

Spindle Box  
 Picture cards  
 Building blocks  
 Shape sorter  
 Geometric solids  
 Peg board  
 Ball tracker  
 Art medium  
 Balancing scale  
 Water table  
 Beads  
 Measuring cups

### Assessments

Montessori Album assessments  
 Checklist  
 Observation