

### Course Description:

Mathematics Kindergarten (1 of 2) explores counting, counting objects, number sense, adding and subtracting through 5, geometric shapes, and measurement. The topics include counting to 40, counting up to 15 objects, modeling numbers with objects, using the number line, adding and subtracting within 5, identifying and sorting flat shapes, understanding which attributes are measurable, and identifying coins.

### Course Objectives:

- Count to 40.
- Read and write the numbers 0 to 10.
- Say the numbers when you count objects.
- Match one number with one object when counting.
- Count and tell how many objects are in a group, up to 15.
- Show how many objects there are by writing a number from 1 to 5.
- Count objects in different directions.
- Count objects that are in different places.
- Quickly know how many objects are in a group.
- Understand that 0 means that there are no objects.
- When given a number from 0 to 10, count out that many objects.
- Sort objects by color, size, shape, kind, and texture.
- Count the number of sorted objects in a group.
- Know that each number you count is one more than the number right before.
- Find the number that is one more than another number.
- Starting from a number between 2 and 10, count in order.
- Say if the number of objects in a group is greater than, less than, or equal to the number of objects in another group.
- Show addition and subtraction problems through several different ways.
- Compare two numbers on a number line by saying things like "greater than," "less than," and "equal to."
- Easily add within 5.
- Find how to add to 5 when given a number from 1 to 4.
- Find a number one smaller than another number, up to 10.
- Know and find circles, triangles, and squares.
- Tell where shapes are using words like "above," "below," "beside," "between," "in front of," and "behind."
- Know and find flat shapes.
- Count how many sides and corners a shape has.
- Know what is different and the same about shapes.
- Talk about an object's length, width, and height. Tell that length, width, and height can be measured.
- Talk about how heavy a thing is. Tell that weight can be measured.
- Talk about a thing's temperature. Tell that temperature can be measured.
- Talk about time. Tell that time can be measured.
- Talk about money. Tell that money can be measured.
- Say at least two measurable parts of a thing.
- Compare the lengths, widths, heights, weights, or temperatures of two things.

- Compare amounts of time.
- Compare the cost of things.
- Identify pennies, nickels, dimes, quarters.
- Put things in order by how long they are.
- Find and make patterns with shapes and colors.
- Make a group of objects that is greater than, less than, or equal to another group of objects.

### Required Materials:

#### Required:

- coins (1 penny, 1 nickel, 1 dime, and 1 quarter)
- counting objects (such as beans, bingo chips, or buttons)
- crayons or colored pencils
- glue or glue stick
- handwriting paper
- paper
- pencils
- printables (see Syllabus for link)
- printer and printer paper (for printables)
- scissors
- yarn (3-4 feet)

### Course Overview:

This course is made up of 18 units. Each unit has five lessons. Lessons are made of up activities that include the following types of learning:

- **Warm-Ups** allow for practice of skills or concepts taught in previous lessons. These are graded activities.
- **Direct Instructions** provide modeling of new skills and concepts. These are not graded activities.
- **Guided Practices** allow for practice of a skill with support. These are graded activities only on a completion basis.
- **Independent Practices** allow for practice of a skill without support. These are graded activities.
- **Unit Reviews** allow for practice of skills prior to taking unit exams. These are not graded activities.
- **Unit Exams** test mastery of skills from the unit. These are graded activities.