

Course Description:

Mathematics Kindergarten (2 of 2) explores number sense, counting and comparing numbers, adding and subtracting, geometric shapes, money, and data. The topics include counting to 100, adding and subtracting within 10 using different strategies, identifying groups of 10, ordering numbers on a number line, classifying objects and collecting data using picture graphs, identifying coins, and exploring three-dimensional shapes.

Course Objectives:

- Count to 100 by ones and tens from a starting number within 100.
- Count how many objects are in a group, up to 20.
- Show numbers from 0 to 20 with objects, pictures, and drawings.
- Order numbers from 0 to 20 using the number line and using the terms less than, greater than, and equal to.
- Add two numbers that add up to a number from 0 to 10.
- Subtract two numbers within 10.
- Add and subtract two numbers within 10 easily.
- Show addition and subtraction in different ways.
- Solve addition and subtraction word problems in different ways.
- Sort and classify objects into categories.
- Read and analyze data from picture graphs.
- Use data to make picture graphs.
- Describe the position of geometric figures using the words 'in front of', 'behind', 'beside', and 'between'.
- Identify, describe, and model 2-D shapes.
- Identify, describe, and model 3-D shapes.
- Sort 3-D shapes based on their attributes.
- Identify pennies, nickels, dimes, and quarters.
- Know the difference between wants and needs, and see income as a way to meet wants and needs.

Required Materials:

- blank ten-frame mat
- coins (1 penny, 1 nickel, 1 dime, 1 quarter)
- crayons
- glue stick
- modeling clay
- objects for counting and modeling, such as beans, bingo chips, or buttons
- paper
- pencils
- printables (see Course Syllabus for link)
- printer and printer paper (for printables)
- scissors
- tape
- toothpicks or popsicle sticks

Course Overview:

This course is made up of 18 units. Each unit has five lessons. Lessons are made up of activities that include different 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 only for completion.
- **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.