Course Syllabus

Description:

In Math Grade K, students will count, write, and compare numbers to 20. Students will use addition and subtraction within 10 to solve real-world problems. The course provides an opportunity for students to identify 2-D and 3-D shapes. Counting to 100 by ones and tens is another focus of the course, as well as counting backward within 20 and comparing length, height, volume, and weight.

Estimated Completion Time: 2 Segments, 32–36 weeks

Major Topics and Concepts

Segment One

- Counting and writing numbers 1–5
- Rearranging groups with 2–5 objects
- Identifying and writing 0
- Using equal, greater than, and less than to compare groups to 5
- Comparing groups to 5
- Comparing numbers to 5
- Counting and writing numbers 6–10
- Rearranging groups with 6–10 objects
- Using equal, greater than, and less than to compare groups to 10
- Counting to compare groups to 10
- Counting forward and backward within 10
- Identifying 2-D shapes
- Finding, sorting, and comparing 2-D shapes
- Making composite shapes
- Identifying 3-D shapes
- Finding, sorting, and comparing 3-D shapes
- Sorting objects into categories
- Counting and comparing categories by counting

Segment Two

- Representing addition as adding to
- Representing addition as putting together
- Identifying and using the plus sign
- Solving addition equations within 10
- Representing subtraction as taking apart
- Solving real-world addition word problems
- Developing addition fluency within 10
- Identifying and using the minus sign
- Solving subtraction equations within 10
- Decomposing and representing numbers 5–10

- Counting, writing, and rearranging numbers 11–20
- Representing number 11–20
- Counting to 100 by ones and tens
- Counting from any number to 100
- Comparing objects by using length, height, volume, and weight
- Using nonstandard measurement

Required Materials:

Students will need the following materials: printer, cell phone or scanner, notebook, pencils, erasers, scissors, crayons, glue, tape, ruler, printer paper, colored paper, counters, and common household items.

Grading Policy:

Besides engaging students in challenging curriculum, the course guides students to reflect on their learning and evaluate their progress through a variety of assessments. Assessments can be in the form of practice lessons, multiple-choice questions, writing assignments, projects, oral assessments, and discussions. Core courses will use the state-approved grading scale, and Special Area courses will use an S or U grading scale.

Communication Policy:

To achieve success, students are expected to submit work in each course weekly. Students can learn at their own pace; however, "any pace" still means that students must make progress in the course every week. To measure learning, students complete self-checks, practice lessons, multiple-choice questions, discussion-based assessments, and projects. Students are expected to maintain regular contact with teachers; the minimum requirement is monthly. When teachers, students, and parent or guardians work together, students are successful.