

Department: Math

Course Name: First Grade Math

Course Description:

The focus of instruction in the first grade math curriculum is to promote an understanding of number concepts, classification, whole numbers, place value, geometry, fractions, money, time, measurement, number relationships and the effects of single-step and multistep computations. Learning experiences are provided which allow students to engage actively in a variety of problem solving situations, which connect to the real world, and to model numbers using a variety of manipulations. The students also use worksheets, literature, and technology to explore and connect the mathematics, thus building a deep understanding of concepts and linking concrete approaches to symbolic notation. An additional part of the curriculum is the mastery of addition and subtraction facts through twenty.

Content:

Numbers, ways of representing numbers, and number relationships
Compute numbers and make reasonable estimates
Read, write, order and compare numbers through 1,000
Apply skills and strategies to solve problems
Demonstrate an understanding of geometry and fractions
Demonstrate knowledge of time and money, and apply it to the real world
Understand customary units and measurement
Practice problem solving skills, both independently and collaboratively
Solve problems in both conventional and innovative ways

Skills:

Identify, write, and compare numbers to 1,000
Connect numbers to self and world
Count by ones, twos, threes, fives, and tens to 100
Add and subtract two and three digit numbers with and without regrouping
Identify, write and compare fractions of a region and fractions of a set
Identify and apply symmetry to an object
Identify, describe, classify and compare plane and solid shapes
Apply addition and subtraction properties, and fact families to find sums of two and three numbers to 20, and differences from 20
Count, compare, write the value, and make change of coins
Read and write time to five minute intervals and determine elapsed time
Estimate, measure, and compare lengths using nonstandard, customary, and metric units
Estimate, measure, and compare to find capacity, weight, and mass of an object
Read the temperature on a Celsius or Fahrenheit thermometer
Create and solve basic word problems
Interpret information displayed in a graph
Explore and apply mathematics in hands-on and real-life activities
Make connections in mathematics to self and world
Create and use representations to organize, record, and communicate mathematical ideas

Texts and Materials:

Sadlier-Oxford Progress in Mathematics: Grade 2
Student Manipulative Kits
Reading A-Z, Learning A-Z Company
Math Picture Books
BrainPOP Jr.
Raz Kids
Seesaw
IXL
Math Games
iPads/Apps

Methods of Instruction:

Individual, partner, small group, whole group instruction
Teacher directed/self-directed
Technology
Collaborative projects/integrated projects
Discussions

Methods of Evaluations:

Teacher Observation
Practice Workbook
Individual assessment
Projects
Oral responses
Discussions
Quizzes
Chapter tests

