

# Curriculum Guide

## Math

### Kindergarten Math

Your child will:

- match numerals with sets of objects to 10; count to 50; write numerals in order to 10; recognize numerals 0-20
- instantly recognize number arrangements and groups up to 5; make estimates, understand concept of more/less/equal
- explore, copy, describe and extend patterns
- begin to measure using length, time and weight, collect data and use simple charts and graphs
- recognize and construct geometric shapes and understand positions such as under, behind, in front of and below
- use objects to solve problems and verbally express mathematical ideas

### First Grade Math

Your child will:

- count to find the number of objects in a set up to 50 and count on from a given number
- using blocks or models to demonstrate understanding of addition and subtraction and explain how answer was reached
- explore patterns by describing and extending patterns
- estimate when working with numbers, measuring and problem solving
- explore time, measurement, and identify coins
- draw or sketch geometric shapes, understanding shapes in their environment
- read/interpret simple graphs and charts

### Second Grade Math

Your child will:

- read, write numbers through the hundreds
- count, group and compare numbers
- develop strategies to count large numbers (by twos, fives, tens, etc.) and learn place value to hundreds place
- know addition facts up to 12, begin facts up to 18 and begin to add and subtract two digit numbers
- divide objects into equal parts (fractions) and measure using weight, temperature, length and perimeter
- identify and count coins
- estimate and use technology to explore math concepts
- create, describe and extend patterns and identify geometric shapes
- explain answers verbally, pictorially and in writing

### **Third Grade Math**

Your child will:

- understand place value into the thousands; count by twos, threes, fives and tens
- know basic addition and subtraction including regrouping; learn multiplication facts to five and begin division
- identify, construct and compare fractions
- estimate while working with quantities, measuring and problem solving; use technology to explore math concepts
- make change for a dollar; measure time, temperature, length and area
- construct and compare two and three dimensional figures using relationships in shape, line and points; use congruence, similarity and symmetry
- apply a variety of problem solving strategies and explain answers verbally, pictorially and in writing

### **Fourth Grade Math**

Your child will:

- understand place value into the millions; count multiples by number
- know addition and subtraction with regrouping; multiply up to two-digit numbers and divide by single digits
- create and compute fractions and decimals
- estimate when working with quantities, measuring, problem solving and real life situations; use mental math and use patterns to solve problems
- develop a spatial sense of geometric shapes and draw conclusions to solve problems; record and chart results
- apply problem solving strategies in the solution of realistic and unusual problems in math and other curriculum
- use technology to solve problems; explain answer verbally, pictorially and in writing

### **Fifth Grade Math**

Your child will:

- understand place value & number patterns
- multiply up to three-digit numbers and divide by two digits
- create and compute fractions, decimals and percents
- estimate when working with quantities, measuring, problem solving and real life situations; use mental math and use patterns to solve problems
- develop a spatial sense of geometric shapes and draw conclusions to solve problems; record and chart results
- begin statistics and methods to display
- use technology to solve problems; explain answer verbally, pictorially and in writing

## **Sixth Grade Math**

Your child will:

- reinforce basic computation skills
- use understanding of place value & number patterns to solve equations
- create and compute decimals and percents
- explore proportions and ratios
- further develop understanding of geometric shapes and patterns to draw conclusions to solve problems
- use statistics and graphs to answer mathematical questions
- add, subtract, multiply and divide using fractions
- use technology to solve problems; explain answer verbally, pictorially and in writing

## **Seventh Grade Math**

Your child will:

- reinforce basic computation skills
- understand exponents and prime numbers
- further explore decimals, percents, and fractions
- develop understanding of algebra and integers
- use statistics and graphs to answer mathematical questions
- practice answering math questions using numbers, words and pictures
- use technology to help solve problems