

## **Second Grade Mathematics**

The second grade students build on their first grade skills (spiraling) as they work through the Everyday Math program in the second grade math materials. The same six content strands continue but the second grade-level goals introduce new curriculum areas that challenge the students through work with fractions, calculating and comparing values of money, qualitative probability, algebraic notation and solving number sentences. Manipulatives continue to assist teachers in the presentation of more abstract concepts. Teachers continue to differentiate, support, and augment the program for all learners. Math computation is addressed daily to increase fact fluency.

The Academy advantage of smaller class size, with the support of the Learning Resource Department, allows teachers to differentiate, support, and augment the program for all learners.

### **Areas of Study**

#### **Number and Numeration**

- Rote counting
- Place value and notation
- Meanings and uses of fractions
- Number theory
- Equivalent names for whole numbers
- Equivalent names for fractions, decimals, and percents
- Comparing and ordering numbers

#### **Operations and Computation**

- Addition and subtraction facts
- Addition and subtraction procedures
- Computational estimation
- Models for the operations

#### **Data and Chance**

- Data collection and representation
- Data analysis
- Qualitative probability

#### **Measurement and Reference Frames**

- Length, weight, and angles
- Area, perimeter, volume, and capacity
- Units and systems of measurement
- Money
- Temperature
- Time

#### **Geometry**

- Lines and angles
- Plane and solid figures
- Transformations and symmetry

#### **Patterns, Functions, and Algebra**

- Patterns and functions
- Algebraic notations and solving number sentences
- Properties of the arithmetic operations