

# 1<sup>st</sup> Grade

## Mathematics Student Profile

By June, in Mathematics, first grade students should be able to count, read, write, and model whole numbers. Identifying place value and fractions using whole numbers will also be explored. First graders will learn addition and subtraction facts through fact families and properties of numbers and operations. They will develop strategies for adding and subtracting whole numbers based on their prior work with small numbers. First graders will develop, discuss, and use efficient methods to add within 100 and subtract multiples of 10.



They will know how to use a variety of models, including discrete objects and length-based models to model add-to, take-from, put-together, take-apart and develop meaning for operations of addition and subtraction. They will build number sense and understand the order of counting numbers and their relative magnitudes.

First graders will also know the value of coin combinations and make simple money exchanges. They will collect, organize and display data using tally charts, tables, line plots and graphs and begin to analyze the data they collect.



They will also understand simple concepts of chance and probability. First graders will be able to use tools of reference to measure length and weight and use clocks, calendars, timelines and thermometers.

During the year, first graders will learn to identify 2- and 3-dimensional shapes. First graders will be able to identify attributes, patterns, sequences, relations and functions when finding missing numbers and rules in Frames-and-Arrows and "What's My Rule?" problems. By the end of the year, students will have a broad, rich and balanced experience in mathematics.

