

# Measurement and Data

## Grade 3

### Vocabulary Words

#### Your Student Will Learn

**Analog Clock:** A clock that shows time by moving hands around a circle for hours, minutes, and sometimes seconds

**Area:** The number of square units needed to cover a surface

**Digital Clock:** A clock that shows time to the minute using digits

**Distance:** The amount of space between two given points

**Elapsed Time:** A measurement of the amount of time from one event to another

**Estimate:** A guess or rough calculation of worth, quantity, or size

**Mass:** A measure of how much matter is in an object.

**Measure:** Use of standard units to find out size or quantity in regard to length, height, area, mass, volume, time, perimeter

**Perimeter:** The distance around a figure

**Scaled Bar Graph:** A graph that uses bars to show data

**Scaled Pictograph:** A graph that uses pictures to show data

**Standard Unit:** A traditional unit of measurement from the metric or customary system. Examples include inches, meters, pounds, etc.

**Time:** Seconds, minutes, hours, days, months, years, and so on. Time is shown on a clock or calendar.

**Volume:** The amount of space occupied by an object

### What Your Student Will Learn:

- ◆ Tell and write time to the nearest minute and understand elapsed time
- ◆ Measure and estimate liquid volumes
- ◆ Create picture graphs and bar graphs to represent data
- ◆ Measure with a ruler to the nearest  $\frac{1}{4}$  inch
- ◆ Understand area.
- ◆ Measure the area by counting unit squares.
- ◆ Use multiplication to find area of rectangles.
- ◆ Solve problems that use perimeter.

### Everyday Activities You Can Do At Home:

- ◆ Share and discuss tables and graphs found in newspapers and magazines.
- ◆ Conduct a survey among family members or friends and construct a bar graph or pictograph.
- ◆ Make a physical pictograph using real objects (e.g., fruits, vegetables, cereal, kitchen tools). Record the graph on paper. Change the scale to create a new pictograph.
- ◆ Make records of important times of the day (wake-up, dinner, going to school, getting home from school, etc.) and practice telling how long between activities.
- ◆ Calculate elapsed time by finding out how long it takes to complete daily activities (soccer practice, homework, take a shower, etc.)
- ◆ Measure the perimeter and area of the rooms in your home to determine which rooms are the smallest and largest.
- ◆ Use grid paper to make rectangles with the same perimeters. Determine the area of each rectangle.
- ◆ Fill a small box with blocks (e.g., sugar cubes) to determine its volume. Brainstorm multiple strategies to determine the volume.