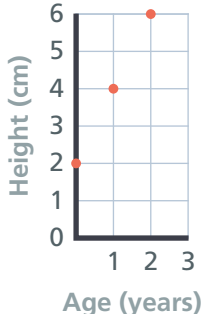# About the Mathematics in This Unit

Dear Family,

Our class is starting a new mathematics unit called *Temperature, Height, and Growth.* The focus of this unit is on using tables and coordinate graphs to analyze patterns and solve real-world and mathematical problems. In this unit, students learn about situations in which two quantities, such as temperature or height, are changing over time. They also study changes associated with geometric shapes, for example, how the area of a square changes as the length of its sides increases. Students use tables, graphs, and equations to represent how one quantity changes in relation to another quantity. They analyze patterns they can see in the tables or in the shapes of the graphs to solve problems and compare situations.

Throughout the unit, students will be working toward these goals:

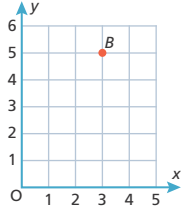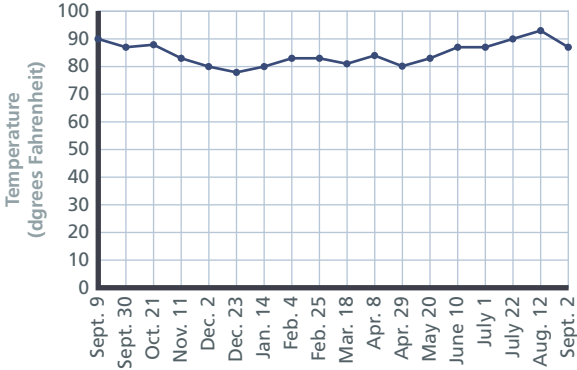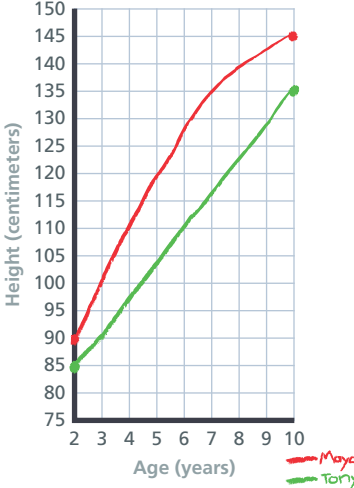| Benchmarks	Examples
Use tables to record ordered pairs and construct coordinate graphs to represent the relationship between *x*-coordinates and *y*-coordinates.	<table><tr><th>Age (years)</th><th>Height (cm)</th></tr><tr><td>0 (birth)</td><td>2</td></tr><tr><td>1</td><td>4</td></tr><tr><td>2</td><td>6</td></tr></table>

About the Mathematics in This Unit

Benchmarks	Examples
Determine what values are represented by points on a coordinate grid.	 Point B represents the value 3 on the *x*-axis and 5 on the *y*-axis.
Represent real world and mathematical problems by graphing points in the coordinate plane and interpret the graph in the context of the situation.	**High Temperatures in One Year in Honolulu** On September 9, the temperature was 90°F.
Use tables and graphs to compare two situations governed by rules that generate numerical patterns.	**Tony, Maya, and Susie**

Please look for more information and activities about *Temperature, Height, and Growth* that will be sent home in the coming weeks.