

Curriculum Parent Overview - Unit 2 (Grade 3)

MATHEMATICS

UNIT #2: GRAPHS AND LINE PLOTS (MODELING WITH DATA)

CONTENT FOCUS:

This unit focuses on using bar graphs, pictographs, and line plots to represent, describe, and compare categorical and numerical data. Students also generate measurement data in inches, half inches, feet, and yards.

UNIT FOCUS:

- Describing, Summarizing, and comparing data: In order to make sensible statements about a data set that has many different values, they group data into categories that help them see the data as a whole. Students will work with two kinds of ordered numerical data- data collected by counting and data collected by measuring. In both categorical and numerical data, students are often drawn to the mode.
- Representing data: Representations of categorical data must make it easy for us to compare frequencies - to see which categories have a lot of data and which categories have few data. By working with their own data, creating representations, and then comparing and discussing these representations, students learn what helps make a data representation communicate clearly. Students will review bar graphs and pictographs.
- Generating measurement data: Students collect data through measuring lengths in inches, half inches, feet, and yards. They focus on generating data that requires them to use rulers to measure to the nearest inch or half inch. They also collect data that involves measuring lengths longer than a foot and expressing these measurements in inches.

MATHEMATICAL PRACTICES:

MP4: Model with mathematics.

MP5: Use appropriate tools strategically.

CONNECTIONS TO PREVIOUS CONTENT:

This unit builds on the work students have done in grade K-2 as they represented and interpreted data involving up to four categories. Grade 2 students represented the data with picture graphs and bar graphs with a single-unit scale. In Grade 2, students also measured lengths to the nearest unit (inch, foot, centimeter, meter) and represented data using a line plot. It is expected that most students are able to represent and interpret data and measure accurately to the nearest unit.

CONNECTIONS TO FUTURE CONTENT:

In Unit 6, students represent measurement data on a number line that includes fourths of an inch. Students continue their work with data in Grade 4 data and fractions units. They extend the work of representing and interpreting data to compare and analyze two data sets. They generate data and use line plots to display measurements. In the fractions unit, they solve addition and subtraction of fraction problems using information provided in the line plots.

MATH AT HOME:

- Visit [Investigations Math At-Home](#) for ideas
- Review the Math Words and Ideas videos for this unit on [Pearson Site](#)