

# Unit 4d-Graphs And Data

Content Area: **Math**  
Course(s): **Math 2**  
Time Period: **Marking Period 4**  
Length: **MP4 Topic 15:15-1 to 15-6**  
Status: **Published**

## Essential Questions

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- What are different ways to gather and interpret data?

## Big Ideas

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- **Collect Measurement Data and Construct Line Plots:** Students will measure objects to the nearest inch and place this information on a line plot.
- **Interpret Measurement Data on a Line Plot:** Students will interpret data from line plots to show the least data value, the greatest data value, and the most common data value.
- **Bar Graphs:** Students will interpret and create bar graphs with up to 4 categories. The graphs will include a title, category labels, and a numbered scale.
- **Picture Graphs:** Students will interpret and create picture graphs with up to 4 categories. They will use the data given in a tally chart to create a picture graph that will include a key to explain the meaning of the symbols.
- **Solve Problems Using Graphs:** Students will draw conclusions about the information in a bar graph or a picture graph by solving simple “put together”, take apart” and “compare” problems.

## CSDT Technology Integration

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8.1.2.DA.2: Store, copy, search, retrieve, modify, and delete data using a computing device.

Activity: Students will complete a Measurement scavenger hunt. After they will work in pairs to solve and record their answers, they will be able to return with chromebooks to check their answers for each card.

## Diversity Integration

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### Religion

Objective: Students will be able to create a pictograph based on cultural celebrations and holidays.

Activity: Students will create a question regarding cultural celebrations or holidays that they can use to survey the class. The students will create a pictograph using the data they collected, as well as a cultural symbol to represent the celebration/holiday in the pictograph. The class will discuss the data together

## **Enduring Understandings**

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### **Measurement and Data**

**2. MD.A.1** Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes

**2. MD.D.9** Generate measurement data by measuring lengths of several objects to the nearest whole unit, or by making repeated measurements of the same object. Show the measurements by making a line plot, where the horizontal scale is marked off in whole-number units.

**2. MD.D.10** Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put together, take-apart, and compare problems using information presented in a bar graph.

### **Operations and Algebraic Thinking**

**2.OA.A.1** Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.

## **Mathematical Practices Focus**

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2. Reason abstractly and quantitatively.