



Dear Second Grade Families,

In Unit 13, students will work on the following second grade Common Core standards in the Measurement and Data (MD) domain.

2.MD.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.10	Draw a picture 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.

Unit 13 Concepts:

- Measure length
- Make a line plot
- Draw a picture graph
- Draw a bar graph
- Categorize items
- Use graphs to solve word problems

Unit 13 Vocabulary

- Line plot
- Data
- Horizontal scale
- Picture graph
- Key
- Horizontal bar graph
- Vertical bar graph
- Category

Create situations like these to help your child become a productive mathematical thinker:

- Let's measure the lengths of these broken spaghetti noodles to the nearest centimeter. Show me how you would represent the data by making a line plot.
- Here's a handful of mixed nuts. How could we categorize them? (nut type, whole/broken, size). Let's represent the data on a picture graph (or on a bar graph).

Ask questions like these:

- How many more \_\_\_\_ than \_\_\_\_?
- How many fewer \_\_\_\_ than \_\_\_\_?
- How many altogether?
- Which category has the most?
- Which category has the least?

Need a review? Check out our lesson videos on-line!

**[swunmath.com/student-videos](http://swunmath.com/student-videos)**

If you don't know the class's special name, ask your child's teacher.

We encourage you to talk with your child daily about what was learned in math class.

Thank you for your support!

# Line Plots, Picture Graphs, Bar Graphs, Grade 2



<p><b>Line Plot (2.MD.9)</b></p> <p>Each X represents 1 item of the length given in the horizontal scale.</p>									
<p><b>Picture Graph (2.MD.10)</b></p> <p>The key says each ● represents 1 item in the given category.</p>	<p style="text-align: center;"><b>Types of Nuts</b></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>peanuts</td> <td>● ● ● ● ● ●</td> </tr> <tr> <td>cashews</td> <td>● ● ● ●</td> </tr> <tr> <td>almonds</td> <td>● ●</td> </tr> <tr> <td>hazelnuts</td> <td>● ● ● ●</td> </tr> </table> <p style="text-align: center;">● = 1 nut</p>	peanuts	● ● ● ● ● ●	cashews	● ● ● ●	almonds	● ●	hazelnuts	● ● ● ●
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hazelnuts	● ● ● ●								
<p><b>Bar Graph (2.MD.10)</b></p> <p>Each line in the scale represents 1 item in the given category.</p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>Nuts in the Mix</b></p> </div> <div style="text-align: center;"> <p><b>Nuts in the Mix</b></p> </div> </div>								