Domain: Measurement and Data Grade: 2

Core Content

Cluster Title: Represent and interpret data.

Standard 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.

MASTERY Patterns of Reasoning:

Conceptual:

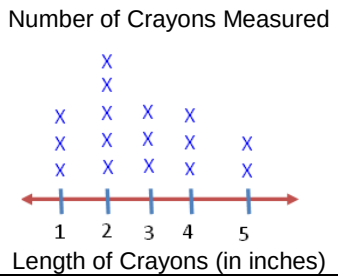
Students will understand that a line plot is a visual representation of data.
Students will understand and interpret data on a line plot.
Students will understand data and how to transfer it to a line plot.

Procedural:

Students can take measurements and collect data.
Students can make a line plot. Include a horizontal scale, title, labels, and straight columns of data marks.
Students can transfer measurement data to the line plot.
Students can read information from the completed line plot.
Students can make comparisons from the data.

Representational:

Students can represent data in a visual line plot.



Code: 2MD9

Supports for Teachers

Critical Background Knowledge
Conceptual: Students will understand linear measurement. Students will understand units of measure (inches, feet, yards, centimeters, meters). Students will understand the concept of measuring length by comparing units, and identify which units are smaller and larger. Students will understand how to organize data. **Procedural:** Students can, when measuring, start with 0 on the measurement tool. Students can draw straight lines. **Representational:** Students can record length and unit of measure.
Academic Vocabulary and Notation
data, line plot, horizontal scale, inch, foot, yard, yardstick, ruler, centimeter, meter, meter stick, measuring tape, length, customary, metric, measurement, measure, units, difference, compare

Instructional Strategies Used	Resources Used
Have students measure similar objects of varying length (pencils, crayons, height of students, etc.) or measure an activity (e.g., how far students can jump or toss a ball). Use measurement data to create a line plot. Teach organizational strategies, such as using grid/graph paper to keep information straight.	http://www.amathsdictionaryforkids.com/dictionary.html http://www.ixl.com/math/grade-2/interpret-line-plots

Assessment Tasks Used	
Skill-Based Task: Create a line plot from measurement data.	**Problem Task:** What is length of items in your desk? Measure eight or more items in your desk. Record the data. Transfer your data to a line plot.