

UNIT
3

Measurement, Time, and Graphs

Learning Progressions for the Common Core State Standards Measurement and Data

In Grade 2, students	In Grade 3, students will	In Grade 4, students will
<ul style="list-style-type: none"> • drew a picture graph and a bar graph with single-unit scales. • used drawings and equations to solve problems involving length. • used number lines to represent whole numbers. • used rulers to measure lengths of objects. • used analog and digital clocks to tell time. 	<ul style="list-style-type: none"> • draw scaled picture graphs and bar graphs. • use number lines to represent time intervals. • use drawings to represent a problem involving liquid volume and mass. • make a line plot to record data. 	<ul style="list-style-type: none"> • use number lines to represent a measurement scale. • use a two-column table to record measurement equivalents.

Content Standards Across the Grades

Grade 2	Grade 3	Grade 4
<ul style="list-style-type: none"> • Measure and estimate lengths. [CC.2.MD.1, CC.2.MD.2, CC.2.MD.3, CC.2.MD.4] • Solve addition and subtraction word problems involving lengths. [CC.2.MD.5] • Tell time to the nearest five minutes, using A.M. and P.M. [CC.2.MD.7] • Show the measurements on a line plot marked off in whole-number units. [CC.2.MD.9] • Represent data on picture graphs and bar graphs with up to four categories. [CC.2.MD.10] 	<ul style="list-style-type: none"> • Tell and write time to the nearest minute. [CC.3.MD.1] • Solve word problems involving time intervals. [CC.3.MD.1] • Measure and estimate liquid volumes and masses of objects. [CC.3.MD.2] • Represent and interpret data. [CC.3.MD.3] • Generate measurement data and make a line plot. [CC.3.MD.4] 	<ul style="list-style-type: none"> • Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. [CC.4.MD.1] • Use the four operations to solve problems involving measurement. [CC.4.MD.2] • Make a line plot to display a data set of measurements in fractions of a unit ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$) and solve problems using the data. [CC.4.MD.4]