Unit 14 - Customary Measurement

Content Area: **Mathematics**
Course(s):
Time Period: **May**
Length: **3-4 weeks**
Status: **Published**

Unit Overview

Unit 11 connects with the theme of Let's Discover Nature!, which centers around people, places, or things in nature, such as animals, aquariums, butterflies, bugs, and mountains.Students will learn the different aspects of customary measurement, and the importance of specifying the units of measure and using the precision that is appropriate for the situation in each problem. When students internalize this step, they will be able to make calculations accurately and efficiently.

Essential Questions

"Why do we convert measurements?"

Content

Customary Units of Length

Convert Customary Units of Length

Customary Units of Capacity

Convert Customary Units of Capacity

Customary Units of Weight

Convert Customary Units of Weight

Convert Units of Time

Display Measurement Data in a Line Plot

Solve Measurement Problems

Problem-Solving Investigation: Guess, Check, and Revise

Skills

Estimate and measure length using customary units.

Convert customary units of length.

Estimate and measure customary capacities.

Convert customary units of capacity.

Estimate and measure customary units of weight.

Convert customary units of weight.

Convert units of time.

Display measurement data in a line plot.

Solve problems involving measurement.

Solve problems using the guess, check, and revise strategy.

Assessments

Online Readiness Quiz

Vocabulary Check

Concept Check - Check My Progress

Chapter Test

Teacher Observation

Lessons/Learning Scenarios

MyMath Grade 4

Chapter 11: Lessons 1-10

Standards

| CCSS.Math.Content.4.MD.A.1 | Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table. |

CCSS.Math.Content.4.MD.A.2	Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.
CCSS.Math.Content.4.MD.B.4	Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Solve problems involving addition and subtraction of fractions by using information presented in line plots.

Resources

MyMath Grade 4: McGraw-Hill (2012)

- play money
- measuring cups
- water, sand, or rice
- measurement containers (cup, pint, quart, gallon)
- bucket balance
- set of weights
- stopwatches
- rulers
- construction paper
- markers