

Unit 13 - Metric Measurement

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

Unit Overview

Unit 13 connects with the theme of Around My House, which centers around household items such as cups, pennies, rulers, apples, suitcases, and eye droppers. Students will learn the different aspects of metric 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

“How can conversion of measurements help me solve real-world problems?”

Content

Metric Units of Length

Metric Units of Capacity

Metric Units of Mass

Problem-Solving Investigation: Make an Organized List

Convert Metric Units

Solve Measurement Problems

Skills

Estimate and measure lengths within the metric system.

Estimate and measure metric capacities.

Estimate and measure mass and learn the difference between weight and mass.

Make an organized list to solve problems.

Convert metric units.

Solve problems involving measurement.

Assessments

Online Readiness Quiz

Vocabulary Check

Concept Check - Check My Progress

Chapter Test

Teacher Observation

Lessons/Learning Scenarios

MyMath Grade 4

Chapter 12: Lessons 1-6

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.

Resources

MyMath Grade 4: McGraw-Hill (2012)

- classroom objects
- base-ten unit
- centimeter ruler
- meterstick
- food coloring
- container of water
- eyedropper

- 1 liter container
- packages with labels
- objects that have a mass of 1 gram and 1 kilogram
- construction paper
- markers