

## Core Skills Analysis

### Mathematics

- Understood the relationships between customary units of capacity such as cups, pints, quarts, and gallons.
- Learned to convert measurements by multiplying or dividing quantities within the customary system.
- Developed problem-solving skills by determining equivalent capacities using unit conversions.
- Enhanced mathematical fluency and number sense related to real-world measurement contexts.

### Tips

To deepen understanding of customary capacity units, encourage students to engage in hands-on measurement activities such as cooking or measuring liquids with graduated containers. Creating real-life word problems about filling different sized containers can provide applied practice. Visual aids like conversion charts or building models of containers with marked units can help reinforce relationships among cups, pints, quarts, and gallons. Finally, integrating comparisons between customary and metric units may broaden conceptual grasp.

### Book Recommendations

- [Measurement: Capacity and Volume \(Math for Me\)](#) by Cheri J. Meiners: A kid-friendly introduction to different units of capacity, engaging readers with relatable examples.
- [How Much Is a Cup?: A Measure of Capacities](#) by Marion Dane Bauer: Explores various ways to measure capacity and helps young learners understand customary units.
- [Math Curse](#) by Jon Scieszka and Lane Smith: A fun story showing how math, including measurement, connects to everyday life in humorous ways.

### Learning Standards

- CCSS.MATH.CONTENT.4.MD.A.1 - Know relative sizes of measurement units within one system of units including capacity.
- 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.
- CCSS.MATH.CONTENT.4.MD.A.3 - Apply concepts of measurement conversions within a system.

### Try This Next

- Create a worksheet with real-life scenarios requiring conversions between cups, pints, quarts, and gallons.
- Design a hands-on experiment where students measure water into different containers and record conversions.