

Lesson 6: Problemas de conversión de varios pasos: Volumen líquido en unidades métricas

Standards Alignments

Building On 5.MD.A.1, 5.NBT.A.2
Addressing 5.MD.A.1, 5.NBT.A.1, 5.NBT.A.2

Teacher-facing Learning Goals

- Solve multi-step problems involving metric liquid measurement conversions.

Student-facing Learning Goals

- Resolvamos problemas de varios pasos sobre volúmenes líquidos en unidades métricas.

Lesson Purpose

The purpose of this lesson is for students to solve conversion problems using metric volume units.

In this lesson, students solve conversion problems involving metric liquid volume measurements. The first activity in this lesson focuses on base-ten structure and conversions and also gives students a chance to work with decimals, fractions, and powers of 10 in exponential form. The second activity is contextual and also involves work with fractions and decimals. It gives students a chance to practice multiplication (by numbers that are not powers of ten) either with whole numbers or a whole number and a decimal depending how they solve the problem.

Access for:

Students with Disabilities

- Engagement (Activity 1)

English Learners

- MLR1 (Activity 2)

Instructional Routines

Number Talk (Warm-up)

Lesson Timeline

Warm-up	10 min
Activity 1	20 min

Teacher Reflection Question

What strategy did most students use for the second activity? How can you encourage students to be more flexible with their use of multiplication or division when converting

Activity 2	15 min	metric units?
Lesson Synthesis	10 min	
Cool-down	5 min	

Cool-down (to be completed at the end of the lesson)

 5 min

Grupo de danza

Standards Alignments

Addressing 5.MD.A.1

Student-facing Task Statement

La semana pasada, los miembros de un grupo de danza usaron 60 botellas de agua durante sus ensayos. Cada botella contiene 750 mL. ¿Cuántos litros de agua se tomaron los miembros del grupo de danza durante sus ensayos?

Student Responses

45 liters. Sample response: First I found how many mL there are in 60 bottles. That's 60×750 or 45,000 mL. That's the same as 45 liters.