Lab Framework

Text: Cord/ AMME

Unit number and title: Unit 1 Learning problem solving techniques Unit 2 Estimating Answers /Unit 3 Label Method Unit 5 Mental Math Tricks and Estimating

Short Description: Learning conversions of English system of gallons to quarts to pints to cups to ounces.

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<u>Lab Title</u> What's in a Gallon?

LAB PLAN

TEACHER: Teacher Prep/Lesson Plan

Lab Objective

Conversion of gallons to quarts to pints to quarts to cups to ounces.

• Statement of pre-requisite skills need:

Knowledge of gallons, quarts, pints, cups and ounces.

Vocabulary

Gallons, quarts, pints, cups and ounces.

• Materials List

Paper and pencils

• State Standards addressed

Math: A1.1.A, A1.8.A, A1.8.B, A1.8.C

• Leadership Skills

Team work, small groups with assigned roles, present information to class. DECA, FFA, FBLA, FCCLA, SkillUSA

• SCAN Skills/Workplace Skills

Problem solver ability to communicate, ability to work will with other people.

Set-up information

Paper with Large Gs'and pencils

Lab organization: Students can work in groups of 2 or individually one class Period or 55 min.

Teacher Assessment of student learning accurately of conversions worksheet completion, formative evaluation.

• Summary of learning

Discuss real the world effects of inaccurate and incomplete data, students will present there findings, discuss of the conversion of liquid measurements from gallons to quarts to pints to cups to ounces.

Optional activities

Have the students double or triple a cookie batch.

Career Applications

Chef, Chemical Consultant, Lawn care companies

LAB TITLE: Whats in a Gallon? STUDENT INSTRUCTIONS:

- Statement of problem addressed by lab
 - Students will calculate the how many quarts, pints, cups, ounces are in a gallon.
- Grouping instructions and roles

The students will work in groups of 2 or individually. They will make the conversions from gallons to quarts, pints, cups with and ounces.

- **Procedures** steps to follow/instructions
 - 1. The students will receive a sheet with a capital G on it.
 - 2. The students will then add quarts, pints, cups and ounces inside the G.
 - 3. The students convert the amount gallons to quarts, pints, cups, and ounces.
- Assessment instructions (peer-teacher)

Students convert the amount ounces, cups, pints and quarts to gallons.

Council

https://wa-appliedmath.org/

Lab Data Collection

Student: Date:	
Unit: Cord Unit 1 AMME Unit 3	
Lab Title: Whats in a gallon?	
Criteria: Can you convert a gallon into quarts, pints, cups a	and ounces?

Calculations: Convert total amount of ounces, cups, pints, quarts into gallons.

Summary Statement:

To find be able to do the conversions between gallons, quarts, pints, cups and ounces.

Other Assessment(s)

Convert recipes by doubling or tripling the ingredients.

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