

## Lab Framework

**Text:** CORD

**Unit number and title:**

**Short Description:** Unit 2 Estimating Answers

**Developed by:** Kris Hendricks

**Contact Information:** krish@cksd.wednet.edu

**Date:** June 26, 2008

Lab Title  
Classroom Size

## LAB PLAN

**TEACHER:** Teacher Prep/ Lesson Plan

- **Lab Objective**  
To estimate the number of desks that will fit into a classroom.
- **Statement of pre-requisite skills needed** (i.e., vocabulary, measurement techniques, formulas, etc.)  
Problem-solving  
Measuring skills
- **Vocabulary**  
Estimate  
Truncate
- **Materials List**  
Calculator  
Measuring tape  
Graph paper
- **GLEs (State Standards) addressed**  
**Math: 1.1 Understand and apply concepts and procedures from number sense.**  
**5.3 The student understands how mathematical ideas connect within mathematics, to other subject areas, and to real-world situations.**  
**Reading: 1.2 Use vocabulary (word meaning) strategies to comprehend text.**

Estimation and computation skills

Communication skills

- **Set-up information**  
Divide class into teams of four. Give each group a measuring tape. Two people will do the measuring, one person will do the recording, and one person will do the reporting.
- **Lab organization** (-Grouping/leadership opportunities/cooperative learning expectations; **-Timeline required**)  
Each team will measure ONLY ONE DESK. They may make as many other measurements in the room as they wish but they may not measure each desk individually. From this information they will estimate how many desk will fit into

the classroom. For this exercise we will assume that nothing else will be in the room.

- **Teacher Assessment of student learning** (scoring guide, rubric)
  - Compare to actual diagram shown on the doc camera.
  - Team members assess each other's participation on a pie chart.
- **Summary of learning** (to be finished after student completes lab)
  1. Discuss real world application of learning from lab
  2. Opportunity for students to share/present learning
- **Optional activities**
  - Estimate how many tables will fit in the cafeteria.
- **Career Applications**
  - Discuss careers where estimation skills are critical.

# Washington Applied Math Council

<https://wa-appliedmath.org/>

**LAB TITLE:** \_\_\_\_\_

**STUDENT INSTRUCTIONS:**

- **Statement of problem addressed by lab**

- **Grouping instructions and roles**

- **Procedures** – steps to follow/instructions

- **Outcome instructions**

- **Assessment instructions** (peer-teacher)

# Washington Applied Math Council

<https://wa-appliedmath.org/>

## Lab Data Collection

Student: \_\_\_\_\_ Date: \_\_\_\_\_

Unit: \_\_\_\_\_

Lab Title:

Criteria: Write the problem/objective in statement form

Data Collection: Record the collected/given data

Calculations: Complete the given calculations to solve for an answer(s)

Summary Statement:

Other Assessment(s)

<https://wa-appliedmath.org/>