

Lab Framework

Text: CORD

Unit number and title: Unit 2: Estimation

Short Description: Using estimation to have groups create a party with limited resources.

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Date: January 19, 2008

Lab Title

Unit 2: Party Time

LAB PLAN

TEACHER: Teacher Prep/ Lesson Plan

- **Lab Objective**
 - Students will make rough estimates.
 - Students will check the answers to problems to make sure they are reasonable.
- **Statement of pre-requisite skills needed** (i.e., vocabulary, measurement techniques, formulas, etc.)
 - Students should have a basic knowledge of estimation
 - Students should have a basic knowledge of math and counting
 - Students should have a basic knowledge of organizational charts and graphic organizers
- **Vocabulary**
 - Approximate Value
 - Approximation
 - Digit
 - Estimate
 - Exact value
 - Rounding
- **Materials List**
 - Computers with access to the internet
 - Handouts
 - Newspaper ads
- **GLEs (State Standards) addressed**

Math

Understand and apply estimation strategies to obtain reasonable measurements at an appropriate level of precision. W (GR 9-10)

Reading: (Reading)

Writing: (Writing)

- **Leadership Skills**
 - See Scans
- **SCAN Skills/Workplace Skills**

Resources: Identifies, organizes, plans, and allocates resources.

A. *Time*—Selects goal-relevant activities, ranks them, allocates time, and prepares and follows schedules.

B. *Money*—Uses or prepares budgets, makes forecasts, keeps records, and makes adjustments to meet objectives.

Interpersonal: Works with others

- A. *Participates as a Member of a Team*—contributes to group effort
- B. *Teaches Others New Skills*
- C. *Serves Clients/Customers*—works to satisfy customers' expectations
- D. *Exercises Leadership*—communicates ideas to justify position, persuades and convinces others, responsibility challenges existing procedures and policies
- E. *Negotiates*—works toward agreements involving exchange of resources, resolves divergent interests
- F. *Works with Diversity*—works well with men and women from diverse backgrounds

Information: Acquires and uses information

- A. *Acquires and Evaluates Information*
- B. *Organizes and Maintains Information*
- C. *Interprets and Communicates Information*
- D. *Uses Computers to Process Information*

- **Set-up information**
 - Follow directions as given
- **Lab organization** (-Grouping/leadership opportunities/cooperative learning expectations; -**Timeline required**)
 - See student directions. Give students 10 minutes to decide what is at their party, five minutes to estimate the costs of the items, and 30 minutes to find the actual prices. Students will have one period to complete this task
- **Teacher Assessment of student learning** (scoring guide, rubric)
 - Completion of any organized chart/method of data with labels along with an interpretation paragraph from the team. Computers should be used to type this information. Many different types of organizers are correct answers. Interpretation is based on any of the information found.
- **Summary of learning** (to be finished after student completes lab)
 - discuss real world application of learning from lab
 - opportunity for students to share/present learning
 - It is very important that you as students learn how to estimate what you need in different situations.
- **Optional activities**
 - Students could compare prices of different businesses.
- **Career Applications**
 - Hospital Nutritionists, Transportation Dept, Delivery Business, Sales, Contracting, Musicians, etc This would be great for applying to any career or job which makes estimations

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LAB TITLE: Unit 2-Party Time

STUDENT INSTRUCTIONS:

- **Statement of problem addressed by lab**

You are planning a graduation party for you and the members of your team. You empty your pockets and find \$21.50. (And this was a good week!) Using only the money you have, create the best party possible. You must have something to drink, food or snacks, some sort of decoration, and entertainment. Remember this is a LEGAL party. No drugs, sex, or alcohol allowed. ☺

- **Grouping instructions and roles**

You will need a group of four with the following jobs...

- Recorder: Someone to organize and write down what you find
- Researcher: Someone good at using computers and using the internet
- Presenter: Someone who can talk to the class about what you find
- Manager: Someone to keep everyone on track and make sure you finish on time.
You may need to force your team mates to multitask

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

1. As a group, decided what you can afford for your party
2. Make sure you have all the requirements of a good party
3. Estimate (take a good guess) at what the cost is for each item.
4. Organize your information in some way
5. Total the cost of your party (It must be under \$21.50)
6. Using the Internet, newspaper, phone etc. research the cost of each item. Write down the exact cost of the party
7. Write one paragraph as a team about your findings

- **Outcome instructions**

Present charts and findings to the class. Did you follow all of the directions? You should have an organized your data listing the items, the estimates, and the actual cost of the items you need for you party. You should also have a paragraph summarizing what you found and comparing actual cost to your estimated costs.

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

- Students will be graded by the teacher based on the chart and reflection paragraph

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Lab Data Collection

Student: _____ Date: _____

Unit: 2-Estimation

Lab Title: Party Time

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)

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