Lab Framework

Text: CORD

Unit number and title: Unit #1 Refrigerator

Short Description: A lab where students will research the best refrigerator to buy for am allotted amount of money.

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Date: June 26, 2009

<u>Lab Title</u> Refrigerator

LAB PLAN

TEACHER: Teacher Prep/Lesson Plan

Lab Objective

To be able to figure out a problem by using the problem solving method in unit 1.

To research different refrigerator prices on the internet.

- Statement of pre-requisite skills needed (i.e., vocabulary, measurement techniques, formulas, etc.)
 - 1. Use of the internet.
 - 2. Use of a scientific calculator.
- Vocabulary

Problem, problem solving method, and solution.

- Materials List
 - 1. Use of the computer lab (internet.)
 - 2. Lab worksheet
 - 3. Calculators
 - 4. Pencils
- State Standards addressed

Math: A1.1.1.C

Leadership Skills

Being a good listener and following directions.

- SCAN Skills/Workplace Skills
- Set-up information
 - 1. Overhead ready.
 - 2. Computer lab reserved.
 - 3. Worksheets copied and ready.
- **Lab organization**(-Grouping/leadership opportunities/cooperative learning expectations; -Timeline required)
 - 1. Give directions for lab.
 - 2. Show students how to record information on worksheet.
 - 3. Spend the rest of the period in the computer lab.

- Teacher Assessment of student learning (scoring guide, rubric)
 - 1. Collection of data.
 - 2. Monitor student research on the internet.
- 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

Optional activities

If students did well and enjoyed this lab, they could research appliances for a kitchen, instead of just a refrigerator.

• Career Applications

- 1. Use as a future business owner who owns a bakery.
- 2. Use a future homebuyer.

LAB TITLE: Refrigerator STUDENT INSTRUCTIONS:

Statement of problem addressed by lab

The daycare refrigerator just went out and needs to be replaced. Your budget is \$1,400 to buy a new refrigerator. The refrigerator needs to have a freezer on top and only one door to open. The refrigerator needs to be "regular" sized. Remember to include tax and shipping in your cost.

Grouping instructions and roles

- 1. Students will work individually on this assignment in the computer lab.
- **Procedures** steps to follow/instructions
 - 1. Listen to instructions.
 - 2. Get worksheet.
 - 3. Start researching on the computer lab.

• Outcome instructions

Have fun and ask if you have questions!

• Assessment instructions (peer-teacher)

I will be in the computer lab to help you if needed. This is due at the end of the period and if you aren't finished this will be homework.

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Lab Data Collection

Student: ______ Date: _____

Unit:							
Criteria: Write the problem/objective in statement form The daycare refrigerator just went out and needs to be replaced. Your budget is \$1,400 to buy a new refrigerator. The refrigerator needs to have a freezer on top and only one door to open. The refrigerator needs to be "regular" sized. Remember to include tax and shipping in your cost. Data Collection: Record the collected/given data							
			_		Chinning	Town Total	
Brand of refrigerator	Freezer	One Door	Regular Sized	Cost	Shipping	Tax Total	
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Calculations: Complete the given calculations to solve for an answer(s)

Show your work for each refrigerator that includes cost, tax, shipping and total cost.

Summary Statement:

Which refrigerator was the most cost effective that meet all of the requirements that were needed?

Other Assessment(s)

Why did you choose this refrigerator?

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