

## Lab Framework

**Text: CORD/AMME(Integrated into all units)**

**CORD-Unit number and title: Unit 4 Using Graphs, Charts, and Tables**

**Short Description:** To assist students in learning how to collect data and present information in graphical format.

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**Date:6/25/2010**

### Lab Title

### “Movie Money!”

### LAB PLAN

**TEACHER:** Teacher Prep/ Lesson Plan

- **Lab Objective**  
To be able to collect data and present the data on a column graph.
- **Statement of pre-requisite skills needed (i.e., vocabulary, formulas, etc.)**  
Knowledge of decimals, monetary values, Algebraic functions, knowledge of graphing using Excel.
- **Vocabulary**  
Amount, Total, column graph, computer search.
- **Materials List**  
Computer, Internet, projector, whiteboard and markers, Excel or graphing program.
- **State Standards addressed**  
Math: A1.6.B, A1.8.A, A1.8.B, A1.8.E.
- **Leadership Skills (FBLA, FFA, FCCLA, SKILLSUSA, DECA,)**  
Group collaboration, practice for team and math related competitive events.
- **SCAN Skills/Workplace Skills**  
Collection of data and analysis in Business Occupations.
- **Set-up information**  
Organize students to set up in groups of two or individually.
- **Lab organization(-Grouping/leadership opportunities/cooperative learning expectations; -Timeline required)**  
Students will work on this project, this lab can be done in one period.
- **Teacher Assessment of student learning (scoring guide, rubric)**  
Students will turn in their lab worksheets with their recorded data and completed Column Graph.
- **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**  
Discuss possible trend of sequel movies (Harry Potter, Toy Story, etc.
- **Career Applications**  
How data is collect and used in the business field for presentations.

**LAB TITLE: “Movie Money!”**

**STUDENT INSTRUCTIONS:**

- **Statement of problem addressed by lab**  
To collect data and compare the total income of movies.
- **Grouping instructions and roles**  
Students can help each other collect the data.
- **Procedures – steps to follow/instructions**  
Students will collect data on six movies. They will collect the price of the ticket and how many tickets were sold for each movie. Students will then create a formula to establish total income for each movie, create a column graph and present their findings.
- **Outcome instructions**  
Students will take the data and create their own table and then create a Column Graph.
- **Assessment instructions (peer-teacher)**  
Students analyze the graph(s) to come up with an analysis of the total income of various movies.

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## Lab Data Collection

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

**Unit:** 1

**Lab Title:** “Movie Money!”

**Criteria:** Write the problem/objective in statement form

What is the total income of six movies?

**Data Collection:** Record the collected/given data

Collect price of ticket for six movies.

Collect total tickets sold for each movie.

Collect and save image of movie poster for column graph.

### MOVIE MONIES

MOVIE TITLE	PRICE OF TICKET	# TICKETS SOLD	TOTAL INCOME (Formula: _____)

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

Create a Table and formula(s) using Excel to find the information and then create a Column Graph showing the Total Income for each movie. You may also save an image of each movie poster and use it to fill each column and identify each movie and total income, print it out and attach it to this worksheet. You will then present your findings to the class. **(Please make sure you type in your name(s) and class in the chart title) Excel Formula:**

**Summary Statement:**

What did you learn from this project?

How will you use this information or not and why?

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