

## Lab Framework

**Text:**CORD Classic

**Unit number and title:**Unit 5--Dealing with Data

**Developed by:**S Johnson

**Date:**June 27, 2007

### Lab Title

## Determining Most Common Hair/Eye Color Combination

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**Short Description:** Working in groups of 4-5 students, students will tally the different natural looking hair/eye color combinations of students in the classroom, complete a data recording chart, record the combinations, and interpret their findings

### LAB PLAN

**TEACHER:** Teacher Prep/ Lesson Plan

- **Lab Objective**

Students will be able to collect, organize, and interpret data

- **Statement of pre-requisite skills needed** (i.e., vocabulary, measurement techniques, formulas, etc.)

ability to differentiate/classify similar colors  
sorting

- **New Vocabulary**

Collect  
Data  
Interpret  
List  
Organize  
Source  
Table  
Tally

- **Materials List**

Lab sheet (One for each student)  
Pencils  
Calculator

- **GLEs addressed**

Math: 3.1.1 Analyze information in familiar situations

4.2 Organize, represent, and share information

Reading: 3.2 Read to perform a task

Writing: 2.2.1 Demonstrates understanding of different purposes for writing.

- **Leadership Skills**

- **Group Skills**

- **2.1 The student will communicate, participate, and advocate effectively in pairs, small groups, teams, and large groups in order to reach common goals.**

- **SCAN Skills**

- **Arithmetic--D** Uses tables, graphs, diagrams, and charts to obtain or convey quantities of information.

- **Writing--B** Records information completely and accurately

Speaking--B Participates in conversations, discussion, and group presentations

- **Set-up information**
  - Divide students into groups of 4 or 5
  - As a group students will:
    - decide what information is needed to solve this problem
    - decide what the source of their data will be and how to obtain it
    - make a form to record the data for their lab team
    - collect the data
    - organize the data so that it will be easy to interpret
    - identify the most common hair/eye color combination
- **Lab organization**(-Grouping/leadership opportunities/cooperative learning expectations; -**Timeline required**)
  - 1 90-minute class period
  - Group supply clerk
  - Group recorder
- **Teacher Assessment of student learning** (scoring guide, rubric)
  - Teacher observation
  - Grading of lab sheets
- **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**
  - Include additional classes in their sampling
  - Expand sampling to see if eye color has any influence on color hair is dyed
- **Career Applications**
  - Using random samples, project preferences of TV viewers/radio listeners
  - Anyone in charge of ordering supplies based on customer preference

**LAB TITLE: Determining Most Common Hair/Eye Color Combination**

**STUDENT INSTRUCTIONS:**

- **Statement of problem addressed by lab**  
Find the most common natural looking hair/eye color combination based on students in the class.
- **Grouping instructions and roles**  
Once your group has formed, pick up  
one Lab data sheet and instructions per student
- **Procedures – steps to follow/instructions**  
Divide into groups of 4 or 5  
Working as a team:  
determine what information is needed to solve this problem  
determine how to obtain your data  
make a form to record the data for your lab team  
collect the data  
organize the collected data so that it will be easy to interpret  
identify the most common natural looking hair/eye color combination from  
your data
- **Outcome instructions**  
Turn in your completed worksheets
- **Assessment instructions (peer-teacher)**  
Teacher observation--ongoing during lab  
Completed data recording sheets

## **Lab Data Collection**

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

**Unit:** 5--Dealing with Data

**Lab Title:** Determining Most Common Hair/Eye Color Combination of Class

**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)

Identify the most common natural hair/eye color combination in this class

**Summary Statement:**

**Other Assessment(s)**