Lab Framework

Text: Cord

Unit number and title: Unit 11 Absolute Values ??

Short Description: This is a lab to show students that their test grades might penalize final grade if they are not aware of absolute values and means.

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Lab Title

Absolute values??

LAB PLAN

TEACHER: Teacher Prep/ Lesson Plan

- **Lab Objective**
  To demonstrate how a student who puts forth effort may be penalized for their efforts.

- **Statement of pre-requisite skills needed** (i.e., vocabulary, measurement techniques, formulas, etc.)
  Students must know how to find a mean.

- **Vocabulary**
  Mean
  Median
  Difference
  Variance

- **Materials List**
  Students test grades.
  Calculators
  Pencil

- **GLEs (State Standards) addressed**
  Math: 1.1.1, 1.1.5, 1.4.3, 1.4.6.

- **Leadership Skills**
  Students will become skilled self advocates.

- **SCAN Skills/Workplace Skills**
  Students will have skills for quality control

- **Set-up information**
  Distribute student test scores.

- **Lab organization** Individual students

- **Teacher Assessment of student learning** (scoring guide, rubric)
  Work sheets will be given 25pts for mathematical accuracy.
  Students will write on one page why their final grade is or is not fair. The written statement will be given 75pts.

- **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
  The students will find that they may receive a lower grade for improving their scores. The tools and methods learned are used in quality control departments and by management to evaluate the manufacturing process.

- **Optional activities**

- **Career Applications**
  Quality Control skills.
  Being able to self advocate for self and others validly.

Test	Albert	Billy	Charlie	Donavan	Edwin
#1	60	80	50	30	90
#2	70	70	70	60	90
#3	80	90	90	40	100
#4	80	80	90	30	40
#5	90	80	100	80	80
Mean	76	80	80	56	80

Score- Mean =Variance

#1 60 - 76 =-16
#2 70 - 76 = -6
#3 80 - 76 = 4
#4 80 - 76 = 4
#5 90 - 76 = 14

Sum of variance = 0

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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)

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)