Lab Framework

Text: CORD

Unit number and title: Unit 3: Measuring in English and Metric

Short Description: Measuring in both English and Metric Units and to use measurements to find answers that the students needs.

Developed by: Karen Nunn

Contact Information: karen.nunn@sultan.k12.wa.us

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<u>Lab Title</u> Measuring Areas

LAB PLAN

TEACHER: Teacher Prep/Lesson Plan

- Lab Objective
 - O Students will learn to measure in English unit.
 - o Students will learn to multiply findings to find an area of a rectangle.
 - Students will learn to work together utilizing communication and leadership skills
- Statement of pre-requisite skills needed (i.e., vocabulary, measurement techniques, formulas, etc.)
 - o multiplication and division skills
 - o measuring skills
 - o teambuilding skills
- Vocabulary

Length, width, area,

- Materials List
 - An area of the floor taped
 - o tape measures
 - o worksheet with floor plan to scale
- State Standards addressed

Math: 1.1; 1.2.1; 1.2; 1.2.6 Reading: 1.3; 2.1; 2.1.6 Writing: 1.3; 2.1; 2.1.6

• Leadership Skills

For this unit, students will either pair up or go solo (their choice), and teach a concept of either an English or Metric system of measurement.

Documentation for this will be entered into the grade book as part of the CTE requirement for this course

SCAN Skills/Workplace Skills Basic Skills

A. Locates, understands, and interprets written information prose and documents – including manuals, graphs and schedules – to perform tasks

B. Learns from text by determining the main idea or essential message

C. Identifies relevant details, facts and specifications

WAMC Lab Form Revised 6/21/09

Page 1of 4



- D. Infers vocabulary, and judges the accuracy, appropriateness, style and plausibility of reports, proposals, or theories of other writers.
- A. Performs basic computations
- B. Uses basic numerical concepts such as whole numbers and percentages in practical situations
- C. Makes reasonable estimates of arithmetic results without a calculator
- D. And uses tables, graphs, diagrams, and charts to obtain or convey quantities Information

• Set-up information

- An area of the floor taped
- o tape measures
- worksheet with floor plan to scale
- Lab organization(-Grouping/leadership opportunities/cooperative learning expectations; -Timeline required)
 On day lab
- Teacher Assessment of student learning (scoring guide, rubric)
 Students will be able to correctly figure the area of the rectangle given.
 Steps:
 - 1. Students will draw to scale the rectangle taped on floor.
 - 2. Students will measure the area using their hand after first finding the measurement from tip of thumb to tip of pinky
 - 3. Students will then measure area with a tape measure for accuracy and compare with a second scale drawing.
 - 4. Students will show all work.
- 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
- Career Applications

Carpentry
Sewing/tailor
Factory worker
Architect
Engineer

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LAB TITLE:	Measuring Areas

STUDENT INSTRUCTIONS:

• Statement of problem addressed by lab

Students will measure accurately and record the area of their table or desk

- Grouping instructions and roles
 - o trace hand on paper then measure from tip of thumb to tip of pinky
 - Measure the table top or desk top with their hand. Record outcome and draw outcome on paper
 - Measure table top or desk with a tape measure. Record outcome and draw outcome on paper
 - Compare results
- **Procedures** steps to follow/instructions
 - o Trace hand on paper then measure from tip of thumb to tip of pinky
 - Measure the table top or desk top with their hand. Record outcome and draw outcome on paper
 - Measure table top or desk with a tape measure. Record outcome and draw outcome on paper
 - Compare results
- Outcome instructions

Students will measure the area of their table top or desk top

• Assessment instructions (peer-teacher)

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Lab Data Collection

Student:	Date:
Unit:	
Lab Title: Criteria: Write the problem/objective in statement	ent form
Data Collection: Record the collected/given data	
Calculations: Complete the given calculations to Summary Statement:	solve for an answer(s)
Other Assessment(s)	

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