

Lab - Measurements

In this exercise we will be making measurements – observations – using a variety of convenient, accessible units. We will be paying close attention to estimation while we make our measurements. Communicating our results is especially important in today’s world.

Research question: What is the surface area of a lab table?

Procedure

[1] Work in groups of three. Write down the names of your group members.

[2] Each member will measure and record the length and width of a lab table top using three different units (floor tiles, cubits, centimeters). Estimate your measurements to the best of your ability.

Unit	Length	Width

Name	Date	Period
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Physics – Song

[51] Report - Measurements

[1] Please write a legible, neat report on a separate piece of paper

[1] Give your lab an appropriate title

[1] Research Question – Restate the research question

[23] Procedure and raw data – Include this sheet, your partners' names, and your original data

[15] Results

Determine and report the average length and width for each unit.

Calculate the area of the table in each unit. Be sure to mind your units and significant digits.

Show your calculations!

[10] Discussion

Answer the research question.

Which measurement unit is the most accurate? Which is the most precise?

In which unit is the area the largest? Defend your answer.