

MEASUREMENT AND METRICS

Description:

Part I: A team of students are given a measurement and asked to predict what object on the designated tables is equal to that specific measurement.

Part II: Students later measure the actual object. They need to arrange their data in a table, which includes the prediction-object, measurement, and the difference of the actual measurement compared to their prediction.

Number of Participants: 2

Approximate Time: 30 minutes

Materials:

Measuring devices: meter sticks, 30 cm rulers, metric tapes, balances, spring scales, graduated cylinder, thermometer, etc.

The Competition:

Part I

1. For ease in setting up the competition, objects should be placed on two or three large cafeteria type tables.
2. Students are given several measurements to predict, e.g.
 - a. Can you find something on one of the tables that is 30 centimeters long?
 - b. Can you find something on one of the tables that is 1 meter long and 20 centimeters wide?
3. Teams must agree on the chosen object. The predictions are placed in a chart using a red pen. Pens are collected after Part I is completed.

Part II

1. Students now pick up the appropriate measuring instrument and measure the selected objects.
2. The actual measurements are now placed on the chart in black ink.

Example: Can you find something on the table that is 60 centimeters long?

Object Selected/Predicted	Actual Measurement	Measurement Asked For	Difference in Measurement
2 Floor Tiles	54 cm	60 cm	-6 cm
Length of the pencil	14.5 cm	12 cm	+2.5 cm
Volume of glass	155 ml	175 ml	-20 ml

Scoring:

Look at the Difference column. Sum those numbers. Lowest score wins. The greatest number of zero (0) scores in the Difference column breaks ties.

