

Marvelous Masters of Measurement

Summary

Students are challenged with determining what objects will fit in a pencil box. They will need to accurately measure several objects in both inches and centimeters and construct a viable argument defending why it will fit in the box.

Main Core Tie

Mathematics Grade 2

[Strand: MEASUREMENT AND DATA \(2.MD\) Standard 2.MD.2](#)

Time Frame

1 class periods of 45 minutes each

Group Size

Pairs

Materials

inch and CM ruler
baggie of various school supplies such as unsharpened pencils, cap eraser, crayon box, glue stick, wedge eraser, marker
paper and pencil for recording

Background for Teachers

understand repeated use of the same unit of measurement to measure one object
understand standard units of measurement
questioning strategies to clarify student understanding

Student Prior Knowledge

students need to know how to measure using a ruler
students need to know how to compare numbers and the meaning of comparison symbols $<$, $>$, $=$
students need to be familiar with defending or proving their answers

Intended Learning Outcomes

students will measure objects using inch and CM rulers accurately (MP 5 & 6)
students will compare two measurements of each object (MP 2)
students will analyze comparisons and make a concluding statement (MP 3)

Instructional Procedures

Students will help their teacher determine if random school objects will fit in a tool box by measuring each object twice, using inches and centimeters. Students will need to defend and prove their reasoning.

Strategies for Diverse Learners

give students the option to measure twice using same units of measurement
ensure ruler has the 0 at the end
student can place object on paper, mark beginning and end, draw joining line and measure the

line instead

Extensions

students can predict and then measure
measure other objects at their station

Rubrics

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Authors

[Tamara Shaw](#)

[DAVID SMITH](#)