

Bean Bag Olympics

Summary

A fun interactive measurement and data lesson, as your students toss bean bags to estimate, measure and graph distance using both meter and yard sticks.

Main Core Tie

Mathematics Grade 2

[Strand: MEASUREMENT AND DATA \(2.MD\) Standard 2.MD.1](#)

Additional Core Ties

Mathematics Grade 2

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

Mathematics Grade 2

[Strand: MEASUREMENT AND DATA \(2.MD\) Standard 2.MD.3](#)

Mathematics Grade 2

[Strand: MEASUREMENT AND DATA \(2.MD\) Standard 2.MD.4](#)

Time Frame

2 class periods of 60 minutes each

Group Size

Small Groups

Materials

- meter sticks and yardsticks
- paper and pencils
- bean bags or similar objects to toss
- large area to work in (gym or outside)

Background for Teachers

Background Knowledge:

- teachers need to be familiar with a variety of units of measure
- ensure students understanding of linear measurement
- familiar with launching a task and ensuring student participation
- comfortable with student working in groups and with manipulatives, have appropriate procedures in place.
- understanding of what a line plot is. See attached Progressions document

Student Prior Knowledge

Prior Knowledge:

- understand linear measurement
- understand repeated use of same tool for measurement
- use measurement tools appropriately
- be able to measure using meter and yard sticks
- understand and use estimation
- know how to collect and organize data

Intended Learning Outcomes

- students will be able to use estimation
- students will measure accurately and create a representation of results (MP5)
- students will make comparisons between lengths and clearly express differences(MP6)

Instructional Procedures

Pretending to compete in an Olympic Bean Bag toss by first estimating how far they can toss a bean bag, then measure the distance with both a meter and yard stick. Students will wrap up the task by plotting the difference between estimation and actual measurements on a line plot. This task covers several standards of the measurement and data domain.

Strategies for Diverse Learners

- provide graphic organizers
- option to measure using one method

Extensions

- challenge students to compare their tosses
- use other events that measure distance, long jump, etc.
- measure distance using additional tools

Rubrics

[Bean Bag Olympics](#)

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