“How Long Is It?” Measurement Center

Mid-Valley
STEM-CTE HUB

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How Long Is It?

The Lakeshore Learning "How Long Is It?" Measurement Center STEAM Kit is designed to help students explore measurement concepts through interactive, hands-on learning. This kit includes 2 sets of the Measurement Center from Lakeshore Learning, which features a variety of tools to practice measuring length, comparing objects, and understanding units of measurement.

Grade Level

Pre-K - 2nd

Group Size

2 - 4 students per set

Time Duration

15 - 30 minutes per activity card

Content of Kits

Components

- 10 measurement feet
- Assorting manipulatives
- Activity cards
- Activity card stands

Consumables

- Graph paper

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Usage

Getting Started

1. **Unbox and Inspect Components -** Begin by unboxing the "How Long Is It?" Measurement Centers and checking that all materials are included and undamaged. This includes rulers, measuring tapes, comparison charts, and measuring items (blocks, strips, etc.).

2. **Organize Materials -** Sort the materials into individual sets so each group of students has their own measurement tools. Ensure the measuring items (such as blocks or strips) are easily accessible for hands-on activities.

3. **Introduce the Measurement Center:** Introduce students to the rulers and measuring tapes included in the kit. Show them how to use the tools for measuring objects and how to compare measurements using the comparison charts.

4. **Start with Simple Measurement Activities:** Begin with basic activities, such as measuring classroom objects (books, pencils, etc.) using the rulers and measuring tapes. Have students compare their measurements with their peers to see if they align and discuss any discrepancies.

Storage

- Store tools and cards in the provided storage bin.
- Ensure all components are clean and dry before returning them to the storage bin.

Troubleshooting

- **Children confused by cards -** Pair with pictorial or verbal guides.

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Activity Guide

Beginner

Measure and Compare
Students will use the rulers to measure everyday objects, such as pencils or books. They will compare the measurements with their peers and discuss the differences in length. This activity helps students grasp the concept of length and gives them practice using rulers to measure accurately.

Intermediate

Using a Measuring Tape
Students will practice measuring larger objects, such as tables or boxes, using the measuring tapes provided in the kit. They will learn how to read and interpret measurements in both inches and centimeters, comparing the measurements of different objects. This activity reinforces the idea of length and introduces the concept of measuring with flexible tools.

Advanced

Measurement Challenge
Students will work in teams to measure several objects in the classroom and compare their measurements. They will use both rulers and measuring tapes to measure different objects and then use the comparison charts to categorize their findings (e.g., shortest, longest, or equal lengths). This challenge encourages teamwork and reinforces measurement skills.

Extension Activities:

Comparing Different Units
Students will explore the concept of different units of measurement by comparing objects using both inches and centimeters. They will first measure the objects in one unit and then convert the measurements to the other unit, helping them understand the relationship between different measurement systems.

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Learning Extensions

STEAM Connections: Math

Learning Objectives:

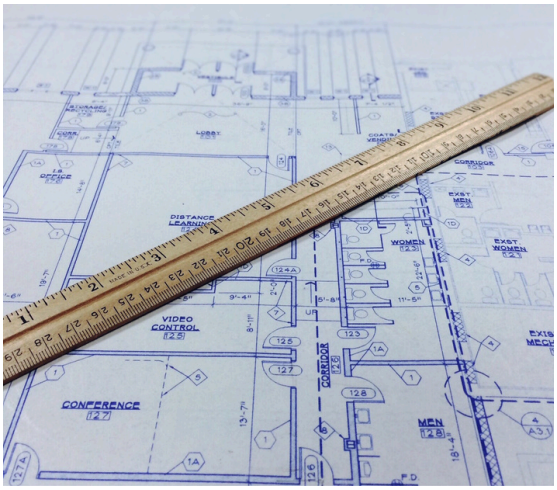
- Understand and apply the concepts of length and measurement using standard units (inches, centimeters).
- Develop skills in comparing and recording measurements using rulers and measuring tapes.
- Reinforce the ability to measure a variety of objects, both small and large.
- Build teamwork and communication skills while measuring and comparing objects in a group setting.
- Learn the relationship between different units of measurement and practice converting between them.

Career Connections:

- **Engineer -** Applies measurement skills in design, construction, and material testing.
- **Architect -** Uses precise measurements to design buildings, structures, and landscapes.
- **Carpenter -** Measures and cuts materials to specific lengths and dimensions.
- **Surveyor -** Measures land and property to create accurate maps and property boundaries.

Essential Employability Skills:

- Observation
- Measurement Literacy
- Critical Thinking
- Communication
- Teamwork



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Resources and Accessibility

Safety Guidelines

- Keep materials away from areas with trip hazards during active use

Accessibility

- Allow verbal responses or partner assistance for pouring steps
- Provide larger scoops or containers for students with limited motor control
- Offer extended time and clear, scaffolded steps for students needing extra support

Library Catalog

Library Resources

Feedback

QR to feedback survey