CLIXO
Classroom

Measuring with Clixo

Activity Guide

Online Activity Page

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Overview

This activity guide is designed to make learning about measurement engaging and hands-on, fostering young students' skills in estimation, measurement, and comparison through play and exploration.

Objective

Students will learn to measure and compare the length and height of various objects using Clixo pieces, enhancing their understanding of measurement concepts.

Materials for Each Student

- Clixo pieces (various shapes and sizes)
- Objects of different lengths and heights (books, pencils, small boxes, toys, etc.)
- Recording sheets with simple graphics
- Pencils or crayons

Ages

PreK - Grade 2

Duration

Approximately 30 minutes



Introduce 3 minutes

Discussion

- Begin with a short discussion on measurement. Ask students if they know what it means to measure something.
- Explain that measuring helps us know how long or tall something is.

Demonstration

- Show students a Clixo piece and explain that they will use these pieces to measure how long and how tall things are.
- Use an object (e.g., a book) to demonstrate measuring its length and height with Clixo pieces.



Build & Create

Step 1: Estimation (5 minutes)

- Objective: Develop estimation skills in a playful manner.
- Show students an object and ask them to guess (estimate) how many Clixo pieces long and tall it might be.
- Let students share their guesses. This encourages engagement and participation.

Step 2: Measuring Length (7 minutes)

- Objective: Measure the length of objects using Clixo pieces.
- Choose an object and demonstrate how to measure its length by lining up Clixo pieces end to end along the object.
- Give students simple objects to measure and assist them as needed.
- Have students draw the object and write the number of Clixo pieces next to it on their recording sheet.

Step 3: Measuring Height (7 minutes)

- Objective: Measure the height of objects using Clixo pieces.
- Demonstrate how to measure the height of an object by stacking Clixo pieces vertically along the object.
- Give students the same objects to measure their height. Assist them in stacking the pieces and counting them.
- Have students draw the object again and write the number of Clixo pieces next to it on their recording sheet.

Step 4: Comparison (5 minutes)

- Objective: Compare the lengths and heights of different objects.
- Gather the students and discuss which objects were the longest and tallest.
- Use visual aids, like placing the objects side by side, to help students see the differences.



Share & Reflect 3 minutes

Discussion

- Review the activity and ask students what they learned about measuring.
- Ask simple questions like "Which object was the tallest?", “Which object was hardest to measure?” “Which object was easiest to measure?”

Questions for Reflection

- Which objects were the longest? Which were the tallest?
- Was it easy to measure with Clixo pieces?



Extension Activities

CREATE A SIMPLE CHART

Have students draw pictures of the objects and label them with the number of Clixo pieces for length and height.

EXPLORE STANDARD UNITS

For older PreK students or Grade 2, introduce a simple ruler and compare how measuring with Clixo pieces is different from using a ruler.

BUILD AND MEASURE

Let students build their own creations with Clixo pieces and then measure how long or tall their creations are.



Tips

- ✓ Use encouraging language and offer plenty of praise to keep young students engaged.
- ✓ Provide hands-on assistance and demonstrate each step clearly.
- ✓ Adapt the activity to fit the developmental level of your students, offering more or less support as needed.

Educational Standards

ISTE STANDARDS FOR STUDENTS

Empowered Learner
Students will set personal learning goals and use technology to achieve them.

Computational Thinker
Students will develop and employ strategies for understanding and solving problems in ways that leverage the power of technological methods to develop and test solutions.

Innovative Designer
Students will use a variety of technologies within a design process to identify and solve problems by creating new, useful, or imaginative solutions.

CCSS MATHEMATICS

CCSS.MATH.CONTENT.K.MD.A.1
Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object.

CCSS.MATH.CONTENT.1.MD.A.1
Order three objects by length; compare the lengths of two objects indirectly by using a third object.

CCSS.MATH.CONTENT.2.MD.A.1
Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.

CCSS.MATH.CONTENT.K.MD.A.2
Directly compare two objects with a measurable attribute in common to see which object has "more of" or "less of" the attribute and describe the difference.

CCSS.MATH.CONTENT.1.MD.A.2
Express the length of an object as a whole number of length units by laying multiple copies of a shorter object end to end.

CCSS.MATH.CONTENT.2.MD.A.2
Measure the length of an object twice, using length units of different lengths for the two measurements; describe how the two measurements relate to the size of the unit chosen.

Recording Sheet

Print one for each student or pair. Write the object, your guess, then the real measurement.

Name _____ Date _____

Object	Estimated Length (in Clixo Pieces)	Actual Length (in Clixo Pieces)	Estimated Height (in Clixo Pieces)	Actual Height (in Clixo Pieces)