

Material Preparation

MATERIALS

- large bowl or container
- small bowls
- cardboard box
- books of various lengths, with a maximum spine length of 10"
- 20 1" wooden blocks
- one child's shoe
- sheet of 18" x 24" chart paper or poster board
- masking tape
- permanent marker
- ECHOS Book: *What's Down the Block?*

For each child:

- small bowl of ten 1" wooden blocks
- Ask Me About Blocks sticker

PREPARE IN ADVANCE

- Place the various sized books inside the cardboard box. Make sure there is one book for each child.
- Fill the large bowl or container with 20 1" wooden blocks.
- Create a *Measurement Chart* on the sheet of chart paper using the model below.
- Write each child's name on the measurement chart and tape it on the wall or on a board at the children's eye level.



Measurement Chart

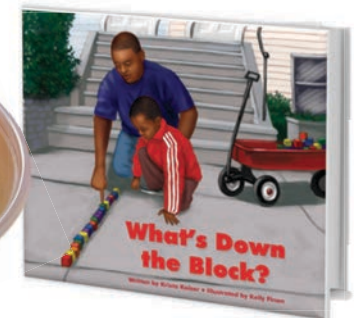
| Name | Measurement |
|----------|-------------|
| Kendra | |
| Steven | |
| Mario | |
| Ryan | |
| Veronica | |

SET UP THE LESSON AREA

- Gather the ECHOS book, the box of books and the large bowl or container of 1" blocks.
- Place one bowl of ten 1" blocks on the table for each child in the group.



For each child



OBJECTIVE

Children will use 1" blocks to measure the length of objects.

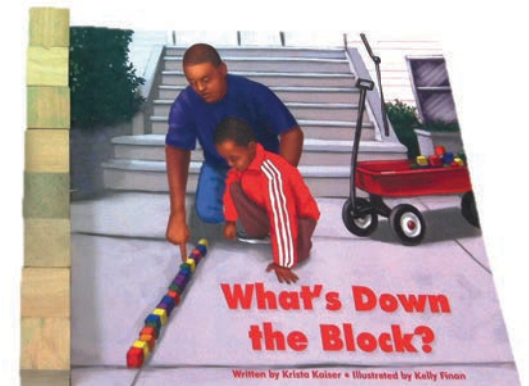
EXCITE

Gather the children in the ECHOS lesson area. Choose one child and ask him/her to take off one shoe. Place the shoe where all children can see it. **Remember the blocks we talked about earlier? Do you think I could use them to measure this shoe?** Listen to the children's responses. **Let's find out! Count with me as I place the blocks along the side of this shoe. One, two, three...**



INTRODUCE

1. We just used blocks to measure _____'s shoe. Each block is one *inch* long. Can you say inch?
2. We just measured _____'s shoe, and it is _____ *inches* long.
3. Today I am going to read you a story about a little boy who uses 1" blocks to measure things he finds in his neighborhood. Are you ready to find out about all the things he can measure? Read the ECHOS Book: *What's Down the Block?*
4. Place the book to the side. **Let's measure the length of the book I just read to you. First, I will place the book on the table. Next, I will make a row with the blocks along the spine of the book. I'll put one block next to another. When the row of blocks is the same length as the book, I will stop.** Place the blocks in a row. **Let's count how many blocks I used to make the row of blocks the same length as the book.**
5. Count the blocks with the children. **Now we know how long the book is. The book *What's Down the Block?* is eight inches long.**



EXPLORE

1. Hold up the cardboard box. **This is a box filled with books. Today you will use the 1” blocks to measure the books in this box. When I call your name, close your eyes and pick a book from the box.** Call children one at a time to select a book from the box.
2. Give each child one bowl of ten 1” blocks. **You are going to use the 1” blocks to measure the book you selected.** Point to the spine of the book. **This is the side that you will measure.** Direct children to place the 1” blocks in a row next to the spine of their book.
3. Ask one child to start. **Let’s count the blocks to see how long your book is.** Encourage the children to help count. **How many inches long is your book?**
4. Hold up the Measurement Chart. **I’m going to write the number of inches next to your name on this *Measurement Chart*.** Record the number of blocks on the *Measurement Chart* next to the child’s name. Repeat procedure for each child.
5. **Let’s look at our chart.** Review the chart with the children. Read the results; then compare: **How many inches long was the shortest book? How many inches long was the longest book?** Accept responses; assist as needed.
6. **You did a great job using blocks to measure books!**



INTERACT

Interact to accommodate children’s individual needs and strengths. Use these suggested strategies as needed:

- Assist children in placing the 1” blocks in a row the same length as the spine of the book.
- Ask children to point to each 1” block as they count the row of 1” blocks. Always ask **How many?** after the count.
- Encourage children to use the blocks to measure other objects in the classroom.

OUTCOMES

1. Regroup the children in the ECHOS lesson area. **What did we discover today?** Listen to the children's responses. Use suggested prompts to elicit key concepts and vocabulary. Encourage responses from everyone.
 - **What did you use to measure?**
 - **What did you find out?**
 - **Let's look at our chart. Who had the longest book? Who had the shortest book? Whose books were the same length?**

2. Give each child an *Ask Me About Blocks* sticker.

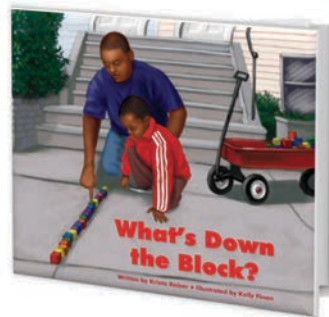


Remind the children to tell their family something they have learned about measuring.

3. After you have completed *Lesson #2: Block by Block* with all the children in your classroom, add the ECHOS material suggested below to your science area to encourage exploration.

VOCABULARY

- inch/es



ECHOS Book: *What's Down the Block?*