

Unit 2  Week 2	Small Groups: Exploring Measuring Tools Low Support	Math SG2	Standards: MELDS.M.MP.PS.3
-------------------------------------------------------------------------------------------------------	---------------------------------------------------------------	---------------------------	--------------------------------------



Image downloaded from amazon.com

Guiding Math Ideas:

- Mathematizing Daily Experiences.

Math Concepts from Unit Learning Progressions:

- Exploring measurement tools indoors and outdoors.
- Exploring and describing measurable attributes in everyday activities.

Materials: <ul style="list-style-type: none"> ● <i>Actual Size</i> by Steve Jenkins ● <i>Measuring tapes- all types cloth ones and the retractable ones</i> ● Monkey Manipulatives ● Some items from the Nature walk- rocks, sticks, etc. ● Sticky notes or a notebook and chubby pencils 	Math Vocabulary: <ul style="list-style-type: none"> ● Measure- the way we find out what size something is
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------

Preparation:

Place all items out on table, along with the book *Actual Size*, turned to a page with a measuring tape.

Procedure

Introduce tools to the children.

As the children play with the tools, name them and demonstrate.

Measure things. Take ‘Dictation’ by writing down the numbers that they call out. You are modeling the way people write down their measurements- accuracy from the children is neither expected nor a goal. Children play and explore with the tools, using items from the shelves. Some children may make marks or numbers on the notes as they measure.

Challenge questions:

What is the Largest thing on the shelf in our Math Center? What is the Smallest thing on the shelf in our Math Center? I wonder how long my arm is? Do you think it is as long as a monkey’s arm?

You can also link this week’s Small groups together by creating monkey chains and measuring and comparing them. *I wonder-- how long is this chain of 5 monkeys?*

Continue playing, measuring, sorting, writing down measurements. Refer to the *Actual Size* book for facts and comparison words. Use the measuring tapes to measure things in the book and invite children to join you. The back of the book has scientific descriptions of the creatures.

Strategies to Provoke Math Thinking:

- Measuring tapes have numbers that mimic the number word list- in order and sequential- Start with this measuring tool, as it has the clearest connections for young children. A measuring tape is an example of a tool we use for continuous measurement, the easiest form of standard measurement for young children.
- Measurement is described as the most practical application of math in everyday life. Encourage comparison of objects using the measurement tools and make connections to children’s lives, such as measuring shoes they wear, toys in the classroom or something from home.
- Using non-fiction texts for math and science: *Actual Size* is not a story book. It gives accurate measurements and drawings of items in nature. As you explore math concepts, include non-fiction texts, such as the photo books of Tana Hoban or other books by Steven Jenkins to encourage applying math concepts to realistic experiences.

Documentation:

Look at fine motor skills as well as the ability to recognize numbers as children use measuring tapes.

Provocations:

I wonder if we could measure our blocks to see which ones are the longest? (or some other classroom object)

Take measuring outdoors- *I wonder how tall our climber is?*

Is it Bigger? Is it Smaller by Tana Hoban and *A Pig is Big* (Unit 1) are great books for provoking additional thinking about comparing things using measurement.