

Dear Parents,

We will begin our next unit of study in math soon. The information below will serve as an overview of the unit as you work to support your child at home. If you have any questions, please feel free to contact me. I appreciate your on-going support.

Sincerely,

Your Child's Teacher

Unit Name: Nonstandard Measurement		
Common Core State Standards:		
1.MD.1 Order three objects by length; compare the lengths of two objects indirectly by using a third object.		
1.MD.2 Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. Limit to contexts where the object being measured is spanned by a whole number of length units with no gaps or overlaps.		
Essential Vocabulary:		
<ul style="list-style-type: none">• Compare• First• Gap• Height• Length	<ul style="list-style-type: none">• Less• Longer Than• Measure• More	<ul style="list-style-type: none">• Order• Overlap• Second• Shorter Than• Third
Unit Overview:		
Students develop an understanding of the meaning and processes of measurement, including underlying concepts such as iterating (the mental activity of building up the length of an object with equal-sized units) and the transitivity principle (using a third object for comparing two objects) for indirect measurement.		
Strategies/Skills:		
In this unit, First Grade Students will:		
<ul style="list-style-type: none">• Use direct comparison to compare lengths.• Use a third object to indirectly compare lengths between two objects.• Compare and order a set of objects by length, utilizing their knowledge of sequencing.• Focus on an attribute being measured, and select an appropriate nonstandard tool to measure that object.		
Video Support:		
Video support can be found on Khan Academy		
<ul style="list-style-type: none">• https://www.khanacademy.org<ul style="list-style-type: none">○ Measuring a Golden Statue		
Video support can be found on Watch Know Learn		
<ul style="list-style-type: none">• http://www.watchknowlearn.org/<ul style="list-style-type: none">○ Non Standard Measurement		

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Additional Resources:

If you have limited/no internet access, please contact your child's teacher for hard copies of the resources listed in this document.

- [NCDPI Additional Resources](#)
- http://pbskids.org/curiousgeorge/games/how_tall/how_tall.html

- http://www.eduplace.com/cgi-bin/schtemplate.cgi?template=/kids/mw/help/eh_popup_k.shtml&grade=K&title=Compare,+Order,+and+Measure+Length&tm=tmfa0113e
- http://www.harcourtschool.com/activity/length_strength3/

Questions to Ask When Helping Your Child with Math Homework

Keep in mind that homework in elementary schools is designed as practice. If your child is having problems, please let the classroom teacher know. When helping your child with his/her math homework, you don't have to know all the answers! Instead, we encourage you to ask probing questions so your child can work through the challenges independently.

- What is the problem you're working on?
- What do the directions say?
- What do you already know that can help you solve the problem?
- What have you done so far and where are you stuck?
- Where can we find help in your notes?
- Are there manipulatives, pictures, or models that would help?
- Can you explain what you did in class today?
- Did your teacher work examples that you could use?
- Can you go onto another problem & come back to this one later?
- Can you mark this problem so you can ask the teacher for an explanation tomorrow?