## Next Steps and Instructional Moves

The intended purpose of this document is to provide teachers with a tool to determine student understanding and suggest instructional moves that may help guide a student forward in their learning of a particular concept or standard. This guide is not an exhaustive list of strategies.

## Second Grade: Cluster 6 <br> Working with Linear Measurement

This list includes standards addressed in this cluster, but not necessarily mastered, since all standards are benchmarks for the end of the year. Note recommendations in the Important Considerations section in Cluster 6 of the Instructional Frameworks for more information.

NC.2.MD. 1 Measure the length of an object in standard units by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.

NC.2.MD. 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.

NC.2.MD. 3 Estimate lengths in using standard units of inches, feet, yards, centimeters, and meters.
NC.2.MD. 4 Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit.

NC.2.MD. 5 Use addition and subtraction, within 100, to solve word problems involving lengths that are given.

NC.2.OA. 1 Represent and solve addition and subtraction word problems, within 100 , with unknowns in all positions, by using representations and equations with a symbol for the unknown number to represent the problem, when solving:

- One-Step problems:
- Add to/Take from - Start Unknown
- Compare - Bigger Unknown
- Compare - Smaller Unknown

| Not Yet | Students that are consistently scoring "Not Yet" could have a variety of errors. These <br> errors may include not yet being able to estimate or accurately measure the length of <br> objects OR students are unable to solve addition and subtraction word problems in <br> measurement contexts within 50. |
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## Next Steps:

For students are progressing at measuring the length of objects accurately (2.MD.1, 2.MD.2, 2.MD.3, 2.MD.4):

- Provide tasks for students to estimate the length of objects (2.MD.3) then measure objects in and around the classroom to determine lengths (2.MD.1, 2.MD.2) and compare lengths (2.MD.4). Work with students in small groups to help students ensure that the measurement tool is lined up at the beginning of the object, and that the measurement tool is read correctly in order to determine the length of the object.
- Follow up tasks with conversations about the processes students are using to measure objects (2.MD.1, 2.MD.4).
- When students are measuring one length with two different units provide students with opportunities to reason and discuss with peers and the teacher how one length could have two different measurements (2.MD.2).
- Possible tasks on www.Tools4NCTeachers.com: Who Measured Correctly, Best Tools to Measure, Measuring and Comparing Lengths

For students who are not yet able to consistently add and subtract within 50 (2.0A.1, 2.MD.5):

- pose tasks to students that allow them to use base ten blocks to support their work
- consider the progression of the types of numbers in tasks:
- two-digit number and a two-digit number that is a multiple of ten (e.g., 36+20 or 36-20)
- two-digit number and a two-digit number where the sum or difference does not require the reorganizing/regrouping of tens and ones (e.g., $36+22$ or 36-22)
- two-digit number and a two-digit number where the sum or difference require the reorganizing/regrouping of tens and ones (e.g., $36+27$ or $36-27$ )
- use the hundreds board as a tool to support students' addition and subtraction work

For students who are not yet able to determine whether they should add or subtract numbers in a word problem (2.0A.1, 2.MD.5):

- have students describe the action in the word problems. Avoid key words and using isolated words to determine which operation to use. Key words are distracting. Example: fewer does not always mean subtract. Susan has 4 pens. She has 3 fewer pens than Tomika. How many pens does Tomika have?
- use strategies such as part-part-whole mats or model drawing to support students' exploration of word problems. Example: There are some birds on the fence. If 15 birds leave and there are 18 birds still there, how many birds were first there?

| Birds who left (18) | Birds still there (15) |
| :---: | :---: |
| Birds first there (18+15) |  |

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| Meets |  |
| :---: | :--- |
| Expectation | Students that are consistently scoring "Meets Expectation" in this cluster are able to meet <br> each standard consistently with evidence that they can solve tasks and explain their <br> reasoning. |

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Next Steps:
For students who have mastered the measurement concepts in this cluster (2.MD.1, 2.MD.2, 2.MD.3, 2.MD.4):

- Consider posing a project-based learning (PBL) activity, project, or performance task that requires students to design and possibly build something that includes measurement skills. Ideas from Howard County, MD are here.

For students who are able to add and subtract numbers within 100 in word problems, including measurement contexts (2.OA.1, 2.MD.5):

- Pose three-digit tasks to students, including two-step problems. Students in Grade 2 should use manipulatives or make drawings for all problems.

