

# 3<sup>rd</sup> Grade Mathematics Common Formative Assessment

## Pre-Instruction

1. List the Standard. Underline the nouns (what students will know) and highlight the verbs (what student will do):

**3.MD.4** **Generate** measurement data by **measuring** lengths using rulers marked with halves and fourths of an inch. **Show** the data by **making** a line plot, where the horizontal scale is marked off in appropriate units—whole number, halves, or quarters.

2. Mathematical Practices

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

3. I Can Statements – Put learning targets in student friendly terms.

1. I can measure length using rules marked to halves and fourths of an inch.
2. I can collect data from measured lengths using halves and fourths of an inch.
3. I can make a line plot using collected measurement data.

Depth of Knowledge of the standard (Highlight the Level of the Learning Target):

Level 1 Recall; **Level 2 – Skill/Concept**; **Level 3 – Strategic Thinking**; Level 4 – Extended Thinking

4. List the skills students need to know in order to begin this standard:

1. Vocabulary: collect, data, measure, line plot
2. Number line
3. Ruler with half and fourths.

5. What type of assessment am I going to write? [selected response (m/c, t/f, y/n, matching, fill in \_\_\_) **or** constructed response (**short**: word, phrase, sentence, single problem; **extended**: multi-step operations in math, problem solving)] List the assessment questions.

Constructed Response:

1. Using the ruler given, measure the given eight insects to the nearest half or fourth of an inch.
2. Collect and display data about the lengths of the insects using the line plot provided.

6. Scoring Guide

**Exceeds Expectations:** Constructs a tool to organize data gathered.

**Proficient:** Accurately measures all of the insects. Accurately makes a line plot.

**Approaching Proficiency:** Accurately measures and plots 5 out of 8 insects, OR accurately measures ALL insects, OR accurately plots ALL their measurements.

**Not Proficient:** Accurately plots and measures less than 5 out of 8 insects OR shows no understanding.

Name: \_\_\_\_\_

Power Standard: 3.MD.4

Directions: Using the ruler given, measure the given eight insects to the nearest half or fourth of an inch. Collect and display data about the lengths of the insects using the line plot provided.

Measure wing tip to wing tip.



\_\_\_\_\_ inches

Measure the length of his body.



\_\_\_\_\_ inches

Measure the length.



\_\_\_\_\_ inches

Measure the length.



\_\_\_\_\_ inches

Measure the length of the body.



\_\_\_\_\_ inches

Measure the length of the body



\_\_\_\_\_ inches

Measure from tip to tip of top wings.



\_\_\_\_\_ inches

Measure the length of the body.



\_\_\_\_\_ inches

Complete your line plot on this page. You will need a main title at the top. Make sure you label the bottom of your line plot then plot your results.



(Main title)



(Inches)

