

Vertical Progression:

<p>TS Gold</p>	<p>22. Compares and Measures</p> <p>2. Makes simple comparisons between two objects.</p> <p>4. Compares and orders a small set of objects as appropriate according to size, length, weight, area, or volume; knows usual sequence of basic daily events and a few ordinal numbers.</p> <p>6. Uses multiples of the same unit to measure; uses numbers to compare; knows the purpose of standard measuring tools.</p> <p>8. Uses measurement words and some standard measurement tools accurately; using ordinal numbers from first to tenth.</p>
<p>Kindergarten</p>	<p>K.MD.A Describe and compare measurable attributes.</p> <ul style="list-style-type: none"> ○ K.MD.A.1 Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object. ○ K.MD.A.2 Directly compare two objects with a measurable attribute in common, to see which object has “more of”/“less of” the attribute, and describe the difference. <i>For example, directly compare the heights of two children and describe one child as taller/shorter.</i>
<p>1st Grade</p>	<p>1.MD.A Measure lengths indirectly and by iterating length units.</p> <ul style="list-style-type: none"> ○ 1.MD.A.1 Order three objects by length; compare the lengths of two objects indirectly by using a third object. ○ 1.MD.A.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. <i>Limit to contexts where the object being measured is spanned by a whole number of length units with no gaps or overlaps.</i>
<p>2nd Grade</p>	<p>2.MD.A Measure and estimate lengths in standard units.</p> <ul style="list-style-type: none"> ○ 2.MD.A.1 Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes. ○ 2.MD.A.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. ○ 2.MD.A.3 Estimate lengths using units of inches, feet, centimeters, and meters. ○ 2.MD.A.4 Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit.

Students will demonstrate command of the ELG by:

- Ordering three objects by length.
- Measuring lengths of objects by laying multiple copies of shorter objects end to end, without gaps or overlaps.
- Comparing lengths of two objects indirectly using a third object.
- Expressing lengths of objects as whole numbers of length units of the shorter objects.
- Organizing objects by their length.
- Measuring objects using a variety of length units (i.e. linking cubes, markers, paper clips, etc.).
- Expressing length to the nearest whole number.
- Using the same unit length when comparing one object with another.

Vocabulary:

- compare
- end-to-end
- gap
- height
- length
- less/less than
- longer than
- measure
- more/more than
- whole number

Sample Instructional/Assessment Tasks:

1) Standard(s): 1.MD.A.1

Source: www.k-5mathteachingresources.com/1st-grade-measurement-and-data.html

Item Prompt: Which is longest?

Materials: basket of pencils, crayons, erasers and other small classroom objects

- 1) Collect a crayon, a pencil and an eraser and order them from shortest to longest.
- 2) Draw and label objects.
- 3) Repeat with three different objects.

Word Bank

short shorter shortest
long longer longest

The _____ is longer than the _____.
The _____ is shorter than the _____.

2) Standard(s): 1.MD.A.2

Source: www.k-5mathteachingresources.com/1st-grade-measurement-and-data.html

Item Prompt: Scoop and Order

Materials: Snap cubes, soup ladle

- 1) Take three scoops of snap cubes.
- 2) Stack the cubes in each scoop.
- 3) Order the stacks from shortest to tallest.
- 4) Record and repeat:

The tallest stack has _____ cubes. The shortest stack has _____ cubes.