



Topic B

Comparison of Length and Height of Linking Cube Sticks Within 10

K.MD.1, K.MD.2, K.CC.4c, K.CC.5, K.CC.6

Focus Standard:	K.MD.1	Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object.
	K.MD.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>
Instructional Days:	4	
Coherence	-Links from: GPK–M4	Comparison of Length, Weight, Capacity, and Numbers to 5
	-Links to: G1–M3	Ordering and Comparing Length Measurements as Numbers

In Topic A, students compared length and height of different objects when their endpoints were aligned and not aligned. Topic B continues with informal comparison of length with students comparing the lengths and heights of linking cube sticks within 10 with a color change at 5. In Lesson 4, to reinforce the importance of the 5-group, students compare multi-unit linking cube sticks to a 5-stick. “My 4-stick is shorter than my 5-stick.”

In Lesson 5, students compare lengths with endpoints that are aligned and not aligned. “My 7-stick is longer than my 4-stick. When I push my 4-stick up or turn it on an angle, it is still shorter than my 7-stick.”

In Lesson 6, students compare their linking cube sticks to objects. “My 4-stick is shorter than my pencil. My 4-stick is longer than my eraser.” Using linking cubes to directly compare different objects is a precursor to being able to compare the lengths of two objects using a third object and order the lengths of different objects in later grades, as well as provide students with a practical context for solidifying their developing number sense.

In Lesson 7, the students break their 5-stick into two parts. “I broke my 5-stick into two parts. My 5-stick is longer than my 3- or 2-sticks. Together, my 3- and 2-sticks are the same as my 5-stick.” This is an extension of their decomposition work from GK–M1. This provides the foundation for the number work coming in GK–M4, wherein students decompose all numbers to 10. This also encourages their fluency with facts to 5.

A Teaching Sequence Toward Mastery of Comparison of Length and Height of Linking Cube Sticks Within 10

Objective 1: Compare the length of linking cube sticks to a 5-stick.
(Lesson 4)

Objective 2: Determine which linking cube stick is *longer than* or *shorter than* the other.
(Lesson 5)

Objective 3: Compare the length of linking cube sticks to various objects.
(Lesson 6)

Objective 4: Compare objects using *the same as*.
(Lesson 7)