

# P.Cert. K: Unit 8: Measurement

Content Area: **Math**  
Course(s):  
Time Period: **May**  
Length: **3 Weeks**  
Status: **Published**

## Unit Overview

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Students will learn how to compare lengths, heights, weights and capacity using objects or pictures.

## Enduring Understandings

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You can compare objects by length and identify which is shorter or which is longer.

You can compare heights using objects or pictures.

You can compare weights using objects or Pictures.

You can compare capacity using objects or pictures.

## Essential Questions

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How do we measure length, height, weight, and capacity of objects?

## Instructional Strategies & Learning Activities

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### My Math Kindergarten Chapter 8

### Pacing Guide

#### Suggested Pacing

Instruction	10 days
Review/Assessment	2 days
Total*	12 days

\*Includes additional time for remediation and differentiation.

Lesson	Objective	Material & Manipulatives	Vocabulary	Standard
Lesson 1	Use direct	• number cards 1–20	length	K.MD.1

<p>pp. 489-494 <b>Compare Length</b></p>	<p>comparison to compare the lengths of objects.</p>	<ul style="list-style-type: none"> <li>• brown bag</li> <li>• connecting cubes</li> <li>• classroom objects</li> </ul>	<p><b>shorter</b> <b>taller</b></p>	<p>K.MD.2 <b>Major Cluster</b></p>
<p>Lesson 2 pp. 495-500 <b>Compare Height</b></p>	<p>Use direct comparison to compare the heights of objects.</p>	<ul style="list-style-type: none"> <li>• yardstick, ruler</li> <li>• connecting cubes</li> <li>• classroom objects</li> <li>• plant pictures</li> </ul>	<p><b>height</b> <b>longer</b> <b>shorter</b></p>	<p><b>MP 1, 4, 5, 6, 7</b> K.MD.1 K.MD.2 <b>Major Cluster</b></p>
<p>Lesson 3 pp. 501-506 <b>Problem-Solving Strategy: Guess, Check, and Revise</b></p>	<p>Guess, check, and revise to solve problems.</p>	<ul style="list-style-type: none"> <li>• connecting cubes</li> <li>• classroom objects</li> </ul>		<p><b>MP 1, 2, 3, 4, 6, 7</b> K.MD.1 K.MD.2 <b>Major Cluster</b></p>
<p><b>Check My Progress</b> Lesson 4 pp. 509-514 <b>Compare Weight</b></p>	<p>Use direct measurement to compare objects by weight.</p>	<ul style="list-style-type: none"> <li>• book, crayons</li> <li>• chalk eraser</li> <li>• bucket balance</li> <li>• classroom objects</li> </ul>	<p><b>weight</b> <b>heavier</b> <b>lighter</b></p>	<p>K.MD.1 K.MD.2 <b>Major Cluster</b></p>
<p>Lesson 5 pp. 515-520 <b>Describe Length, Height, and Weight</b></p>	<p>Describe measurable attributes of single objects.</p>	<ul style="list-style-type: none"> <li>• book</li> <li>• water bottle</li> <li>• paper towel roll</li> <li>• juice can</li> <li>• tennis ball, basketball</li> <li>• sheet of paper</li> <li>• connecting cubes</li> <li>• stapler</li> <li>• ruler</li> </ul>		<p><b>MP 2, 3, 5, 6, 7, 8</b> K.MD.1 K.MD.2 <b>Major Cluster</b></p>
<p>Lesson 6 pp. 521-530 <b>Compare Capacity</b></p>	<p>Compare the capacity of two objects to determine <i>holds more</i> and <i>holds less</i>.</p>	<ul style="list-style-type: none"> <li>• half-gallon</li> <li>• cereal</li> <li>• color tiles</li> <li>• connecting cubes</li> <li>• juice can</li> <li>• half-pint</li> <li>• small cups</li> <li>• counters</li> <li>• pitcher</li> </ul>	<p><b>capacity</b> <b>holds less</b> <b>holds more</b></p>	<p>K.MD.1 K.MD.2 <b>Major Cluster</b> <b>MP 1, 2, 4, 6, 8</b></p>

## **Integration of 21st Century Themes and Career Exploration**

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CRP.K-12.CRP2	Apply appropriate academic and technical skills.
CRP.K-12.CRP4	Communicate clearly and effectively and with reason.
CRP.K-12.CRP8	Utilize critical thinking to make sense of problems and persevere in solving them.
CRP.K-12.CRP1	Act as a responsible and contributing citizen and employee.

## **Technology Integration**

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Utilize programs on the iPad.

Use of Shutterfly Share Site.

Smartboard lessons and technology

## **Interdisciplinary Connections**

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LA.RF.K.1	Demonstrate understanding of the organization and basic features of print.
LA.RF.K.2	Demonstrate understanding of spoken words, syllables, and sounds (phonemes).
LA.RI.K.1	With prompting and support, ask and answer questions about key details in a text.
LA.RI.K.2	With prompting and support, identify the main topic and retell key details of a text.
LA.RI.K.7	With prompting and support, describe the relationship between illustrations and the text in which they appear (e.g., what person, place, thing, or idea in the text an illustration depicts).
LA.RI.K.10	Actively engage in group reading activities with purpose and understanding.
LA.RI.K.4	With prompting and support, ask and answer questions about unknown words in a text.
LA.RF.K.3	Know and apply grade-level phonics and word analysis skills in decoding and encoding words.
LA.RI.K.3	With prompting and support, describe the connection between two individuals, events, ideas, or pieces of information in a text.

## **Differentiation**

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Each chapter in My Math teacher manual contains differentiated instruction for Approaching level, On Level and Above level students.

## **Modifications & Accommodations**

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I&RS and 504 accommodations will be utilized in addition to the differentiated instruction in the Unit.

## **Benchmark Assessments**

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Check My Progress

## **Formative Assessments**

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Teacher observation

Discussion

Worksheets

## **Summative Assessments**

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Assessments for chapters located in My Math Unit.

## **Instructional Materials**

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See above

## **Standards**

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MA.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.

MA.K.MD.A.1

Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object.