

May Gr.2 Unit 11: Customary and Metric Lengths

Content Area: **Math**
Course(s):
Time Period: **May**
Length: **2-4 Weeks**
Status: **Published**

Unit Overview

This unit teaches customary and metric measurement.

Enduring Understandings

Students will be able to specify units of measure throughout the chapter as they measure and compare the lengths of objects in customary and metric units. They will also be asked to determine which measurement unit is appropriate for the degree of precision needed in different contexts.

Essential Questions

How do we measure lengths of objects?

Instructional Strategies & Learning Activities

My Math Chapter 11

- **Pacing Guide**
Suggested Pacing

Instruction	16 days
Review/Assessment	2 days
Total*	18 days

- *Includes additional time for remediation and differentiation.
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Lesson	Objective	Material & Manipulatives	Vocabulary	Standard
Lesson 1 <i>pp. 645-650</i>	Use an inch ruler to measure objects.	• ruler	length	2.MD.1
Inches			inch	2.MD.3
			estimate	2.MD.5
			measure	
				Major

				Cluster
Lesson 2 <i>pp.</i> 651-656 Feet and Yards	Measure objects to find the relationship between inch, foot, and yard.	<ul style="list-style-type: none"> • ruler • yardstick 	foot yard	MP 1, 2, 3, 4, 5, 6 2.MD.1 2.MD.3 2.MD.5 Major Cluster
Lesson 3 <i>pp.</i> 657-662 Select and Use Customary Tools	Choose the appropriate tool and measure length.	<ul style="list-style-type: none"> • yardstick • measuring tape • crayons • ruler 		MP 1, 2, 3, 5, 6, 8 2.MD.1 2.MD.3 Major Cluster
Check My Progress Lesson 4 <i>pp.</i> 665-670 Compare Customary Lengths	Measure to compare customary lengths.	<ul style="list-style-type: none"> • pencils • shoes 		MP 3, 4, 5, 6, 8 2.MD.4 Major Cluster
Lesson 5 <i>pp.</i> 671-676 Relate Inches, Feet, and Yards	Use measurement to relate inches, feet, and yards.	<ul style="list-style-type: none"> • tape measure 		MP 1, 2, 3, 4, 6, 7, 8 2.MD.2 Major Cluster
Lesson 6 <i>pp.</i> 677-682 Problem-Solving Strategy: Use Logical Reasoning	Use logical reasoning strategy to solve problems.	<ul style="list-style-type: none"> • yardstick • balls of yarn or string 		MP 1, 2, 3, 7, 8 2.MD.5 Major Cluster
Check My Progress Lesson 7 <i>pp.</i> 685-690 Centimeters and Meters	Use a centimeter ruler to measure objects.	<ul style="list-style-type: none"> • inch rulers • centimeter rulers • base-ten blocks 	centimeters meters	MP 1, 2, 3, 6 2.MD.1 2.MD.3 2.MD.5 Major

Lesson 8 <i>pp. 691-696</i> Select and Use Metric Tools	Measure objects to find the relationship between centimeters and meters.	<ul style="list-style-type: none"> • centimeter ruler • meterstick 	Cluster MP 1, 2, 4, 6, 8 2.MD.1 2.MD.3
Lesson 9 <i>pp. 697-702</i> Compare Metric Length	Use measurement to compare metric length.	<ul style="list-style-type: none"> • various objects for comparisons 	Major Cluster MP 1, 2, 3, 5, 6 2.MD.4 Major Cluster
Lesson 10 <i>pp. 703-708</i> Relate Centimeters and Meters	Use measurement to relate centimeters and meters.	<ul style="list-style-type: none"> • yardstick • meterstick • centimeter ruler 	MP 1, 2, 3, 4, 5, 8 2.MD.2 Major Cluster
Lesson 11 <i>pp. 709-714</i> Measure on a Number Line	Use a number line to measure.	<ul style="list-style-type: none"> • calendar 	MP 1, 2, 3, 4, 5, 8 2.MD.6 Major Cluster
Lesson 12 <i>pp. 715-720</i> Measurement Data	Measure lengths to generate data.	<ul style="list-style-type: none"> • yard or meter measuring tape • small slips of paper • inch rulers 	MP 1, 3, 4, 5, 6 2.MD.9 Supporting Cluster MP 2, 3, 6, 7, 8
My Review and Reflect			

TECH.9.4.2.DC.4	Compare information that should be kept private to information that might be made public. Critical thinkers must first identify a problem then develop a plan to address it to effectively solve the problem.
TECH.9.4.2.DC.3	Explain how to be safe online and follow safe practices when using the internet (e.g., 8.1.2.NI.3, 8.1.2.NI.4).
TECH.9.4.2.CI.1	Demonstrate openness to new ideas and perspectives (e.g., 1.1.2.CR1a, 2.1.2.EH.1, 6.1.2.CivicsCM.2). Brainstorming can create new, innovative ideas. Individuals should practice safe behaviors when using the Internet.
TECH.9.4.2.CT.2	Identify possible approaches and resources to execute a plan (e.g., 1.2.2.CR1b, 8.2.2.ED.3).
TECH.9.4.2.CI.2	Demonstrate originality and inventiveness in work (e.g., 1.3A.2CR1a).
WRK.9.2.2.CAP.1	Make a list of different types of jobs and describe the skills associated with each job.
TECH.9.4.2.CT.3	Use a variety of types of thinking to solve problems (e.g., inductive, deductive). Different types of jobs require different knowledge and skills.

Technology and Design Integration

Students will interact with the SmartBoard, Ipads, chromebooks and document camera.

CS.K-2.8.1.2.CS.1	Select and operate computing devices that perform a variety of tasks accurately and quickly based on user needs and preferences. Individuals use computing devices to perform a variety of tasks accurately and quickly. Computing devices interpret and follow the instructions they are given literally.
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Interdisciplinary Connections

LA.RI.2.4	Determine the meaning of words and phrases in a text relevant to a grade 2 topic or subject area.
LA.RI.2.5	Know and use various text features (e.g., captions, bold print, subheadings, glossaries, indexes, electronic menus, icons) to locate key facts or information in a text efficiently.
LA.RF.2.3	Know and apply grade-level phonics and word analysis skills in decoding words.
LA.RI.2.10	Read and comprehend informational texts, including history/social studies, science, and technical texts, at grade level text complexity proficiently with scaffolding as needed.

Differentiation

Each My Math unit throughout the series offers "approaching level", "on level" and "Beyond level" differentiated instructional hands-on choices, as well as ELL differentiated support. Please refer to the teacher edition for the activities.

Modifications & Accommodations

EP and 504 accommodations will be followed.

Benchmark Assessments

AIMSweb

Formative Assessments

Teacher observation

Student conferences

Discussion

Activities

games

homework

white board

Summative Assessments

My Math chapter assessments

Instructional Materials

See materials listed in above plans.

Standards

MA.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.
MA.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.
MA.2.MD.A.3	Estimate lengths using units of inches, feet, centimeters, and meters.
MA.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.
MA.2.MD.B.5	Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units, e.g., by using drawings (such as drawings of rulers) and equations with a symbol for the unknown number to represent the problem.
MA.2.MD.D.9	Generate measurement data by measuring lengths of several objects to the nearest whole unit, or by making repeated measurements of the same object. Show the measurements by making a line plot, where the horizontal scale is marked off in whole-number units.
MA.2.MD.B.6	Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers 0, 1, 2,..., and represent whole-number sums and differences within 100 on a number line diagram.