

Grade 3 Unit 6 - Measuring Length, Time, Liquid Volume, and Weight

Section A - Lessons 1-5

Unit Goal:

- Students generate and represent length measurement data in halves and fourths of an inch on line plots. They learn about and estimate relative units of measure including weight, liquid volume, and time, and use the four operations to solve problems involving measurement.
- [Grade 3 Unit 6 I Can Statements](#)
- [Grade 3 Unit 6 Centers](#)

Section A Goals:

- Measure lengths using rulers marked with halves and fourths of an inch to generate data for making a line plot.

**Lessons/resources denoted with an asterisk are Desmos activities*

IM Lesson	L1: Measure in Halves of an Inch	L2: Measure in Fourths of an Inch	L3: Measure in Halves and Fourths of an Inch (PLC)	L4: Interpret Measurement Data on Line Plots	L5: Represent Measurement Data on Line Plots
Ar Math Content Standards	3.MD.B.4	3.MD.B.4	3.MD.B.4, 3.NF.A.3.c	3.MD.B.4	3.MD.B.4, 3.OA.C.7
AR Math Practice	MP6	MP6	MP6	MP5	MP2, MP7
Accessibility Supports	Engagement, MLR2	Representation, MLR2	Engagement, MLR8	Engagement, MLR6	Representation, MLR8
Vocabulary	Mixed numbers				
Lesson Resources	L1 - Slide Deck L1 - Student Tasks * Copies of Measure Around the Room	L2 - Slide Deck L2 - Student Tasks * Rulers from previous lesson	L3 - Slide Deck L3 - Student Tasks * Rulers from L2 Rulers (inches) Notice and Wonder Rulers	L4 - Slide Deck L4 - Student Tasks *	L5 - Slide Deck L5 - Student Tasks * Glue or Tape, Scissors Tools for creating a visual display, Let's Make a Line Plot
Assessment	Cool Down * Pre-Unit Practice Problems	Cool Down *	Cool Down *	Cool Down *	Cool Down * Section A Practice Problems* Section A Checkpoint*
Suggested Centers/ Materials/ Resources	Estimate and Measure (1–4), Stage 2: Centimeters and Inches (Supporting) Target Measurements (2–5), Stage 1: Inches and Centimeters (Supporting)	Estimate and Measure (1–4), Stage 2: Centimeters and Inches (Supporting) Target Measurements (2–5), Stage 1: Inches and Centimeters (Supporting)	Estimate and Measure (1–4), Stage 3: Quarter Inches (Addressing) Target Measurements (2–5), Stage 2: Quarter Inches (Addressing) Creating Line Plots (2–5), Stage 1: Inches and Centimeters (Supporting)	Estimate and Measure (1–4), Stage 3: Quarter Inches (Addressing) Target Measurements (2–5), Stage 2: Quarter Inches (Addressing) Creating Line Plots (2–5), Stage 1: Inches and Centimeters (Supporting)	Estimate and Measure (1–4), Stage 3: Quarter Inches (Addressing) Target Measurements (2–5), Stage 2: Quarter Inches (Addressing) Creating Line Plots (2–5), Stage 1: Inches and Centimeters (Supporting)

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Section B - Lessons 6-8

Goals:

- Measure and estimate weights and liquid volumes of objects.

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IM Lesson	L6: Estimate and Measure Weight	L7: Introduction to Liquid Volume (PLC)	L8: Estimate and Measure Weight
Ar Math Content Standards	3.MD.A.2	3.MD.A.2	
AR Math Practice Standards		MP1, MP3	MP3, MP7
Accessibility Supports	Action and Expression, MLR8	Engagement, MLR5	Engagement, MLR5
Vocabulary Focus	Weight, gram, kilogram	Liquid volume, liter	
Lesson Resources	L6 - Slide Deck L6 - Student Tasks * Chart Paper Markers	L7 - Slide Deck L7 - Student Tasks * Dry-erase markers Each group of 4 needs: • a supply of water • two containers that are different in shape, but close in size • a small container labeled with “unit” • a tray or towel to work on (optional) • a large clear container that can be written on • 1-liter container Or Liquid Volume in Liters video	L8 - Slide Deck L8 - Student Tasks *
Assessment	Cool Down *	Cool Down *	Cool Down * Section B Practice Section B Challenge
Suggested Centers/ Materials/ Resources	• Creating Line Plots (2–5), Stage 2: Quarter Inches (Addressing) • Target Measurements (2–5), Stage 2: Quarter Inches (Addressing)	• Creating Line Plots (2–5), Stage 2: Quarter Inches (Addressing) • Target Measurements (2–5), Stage 2: Quarter Inches (Addressing)	• Creating Line Plots (2–5), Stage 2: Quarter Inches (Addressing) • Target Measurements (2–5), Stage 2: Quarter Inches (Addressing)

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Section C - Lessons 9-11

Goals:

- Solve problems involving addition and subtraction of time intervals in minutes.
- Tell time to the minute.

**Lessons/resources denoted with an asterisk are Desmos activities*

IM Lesson	L9: Time to the Nearest Minute	L10: Solve Problems Involving Time (Part 1) (PLC)	L11: Solve Problems Involving Time (Part 2) (PLC)
Ar Math Content Standards	3.MD.A.1	3.MD.A.1	
AR Math Practice Standards	MP6	MP2, MP8	MP4
Accessibility Supports	Engagement, MLR8	Action and Expression, MLR7	Representation, MLR1
Vocabulary Focus			
Lesson Resources	L9 - Slide Deck L9 - Student Tasks *	L10 - Slide Deck L10 - Student Tasks *	L11 - Slide Deck L11 - Student Tasks • Display student work from previous lessons
Assessment	Cool Down *	Cool Down *	Cool Down* Section C Practice Problems Section C Challenge Problems
Suggested Centers/ Materials/ Resources	• Creating Line Plots (2–5), Stage 2: Quarter Inches (Addressing) • Target Measurements (2–5), Stage 2: Quarter Inches (Addressing)	• Number Puzzles: Addition and Subtraction (1–4), Stage 5: Within 1,000 (Supporting) • Target Numbers (1–5), Stage 7: Subtract Hundreds, Tens, or Ones (Supporting)	• Number Puzzles: Addition and Subtraction (1–4), Stage 5: Within 1,000 (Supporting) • Target Numbers (1–5), Stage 7: Subtract Hundreds, Tens, or Ones (Supporting)

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Section D - Lessons 12-16

Goals:

- Solve problems involving the four operations and measurement contexts.

**Lessons/resources denoted with an asterisk are Desmos activities*

IM Lesson	L12: Ways to Represent Measurement Situations (PLC)	L13: Problems with Missing Information	L14: What Makes Sense in the Problem?	L15: Ways to Solve Problems and Show Solutions
Ar Math Content Standards	3.MD.A.2	3.MD.A.2	3.MD.A.1, 3.MD.A.2, 3.NBT.A.2	3.MD.A.1, 3.MD.A.2, 3.OA.A.3, 3.OA.C.7
AR Math Practice Standards	MP2	MP1	MP3, MP4, MP7	MP2, MP3, MP7
Accessibility Supports	Engagement, MLR8	Representation	Representation, MLR8	Action and Expression, MLR7
Vocabulary Focus				
Lesson Resources	L12 - Slide Deck L12 - Student Tasks* Tools for visual display Card Sort: Giant Pumpkins	L13 - Slide Deck L13 - Student Tasks* Info Gap: Pig Weigh-Off Info Gap: Pumpkin Weigh-Off	L14 - Slide Deck L14 - Student Tasks*	L15 - Slide Deck L15 - Student Tasks* Tools for visual display
Assessment	Cool Down*	Cool Down*	Cool Down*	Cool Down* Section D Practice Problems* Section D Checkpoint*
Suggested Centers/ Materials/ Resources	Number Puzzles: Addition and Subtraction (1–4), Stage 5: Within 1,000 (Supporting) Target Numbers (1–5), Stage 7: Subtract Hundreds, Tens, or Ones (Supporting)	Number Puzzles: Addition and Subtraction (1–4), Stage 5: Within 1,000 (Supporting) Target Numbers (1–5), Stage 7: Subtract Hundreds, Tens, or Ones (Supporting)	Compare (1–5), Stage 3: Multiply within 100 (Supporting) How Close? (1–5), Stage 5: Multiply to 100 (Supporting)	Compare (1–5), Stage 3: Multiply within 100 (Supporting) How Close? (1–5), Stage 5: Multiply to 100 (Supporting)

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