

Connections

Measurement Task Scenarios

The 4.MD.2 tasks provide students with various opportunities to investigate concepts in measurement. The scenarios focus on authentic problem solving tasks involving distances, time, volume, mass and money. This standard appears in four out of six units (Units 1, 2, 4 and 6) and allows for the in-depth development of measurement concepts throughout the year. The tasks also provide context and authentic reasons to connect with other fourth grade standards in the unit. For example, the focus in Unit 2 is on factors, multiples and unit conversions. Measurement tasks provide students with opportunities to work with conversions. In Unit 4, students study fractions and are able to see how fractions are an integral part of measurement. The standards in the units should be seen as concepts that work together rather than isolated concepts that are completed one by one. Connections to these standards can be seen in the Measurement Task Scenario Companion Guide.

The tasks have been designed to provide additional connections for students through reoccurring characters in a storyline. Students will follow Peyton, Jackson, Haylee, Mrs. Jackson's Elementary class, and Mr. Gonzalez's Science class through solving different real world problems. The activities can be done independently of one another. Depending on the complexity of the task and on the class discussion, the task may become a multi-day inquiry. The tasks may also be used as a formative assessment.

Additional connections have been made to the literature or science units being taught during the same quarter or in previous quarters. For example, the task [Let It Snow](#) in Unit 2 corresponds to the weather theme in the literature units being taught at the same time. Vocabulary words from the literature units are used again in the math units.

Companion Guide for Measurement Task Scenarios

Task Character	Unit	CCSS	Big Ideas from Standards in Measurement Task Scenarios
Peyton	Unit 1 - Are We There Yet?	4.MD.2	Solving problems involving elapsed time with whole numbers
	Unit 2 - Peyton's Busy Week	4.MD.2	Converting minutes and hours
		4.MD.1	Using a two column table
	Unit 4 - Peyton's Wish	4.MD.2	Solving problems involving measuring height using fractions
		4.MD.4	Using information on a line plot
		4.NF.3	Adding and subtracting fractions
	Unit 6 - Peyton's Puppy	4.MD.2	Solving problems using decimals and conversion of pounds and ounces
		4.NF.6	Converting decimals to fractions
		4.NF.7	Comparing decimal to hundredths and using symbols
Mrs. Jackson's Class – Smith Elementary	Unit 1 - Summer Vacation	4.MD.2	Solving problems involving distance.
		4.NBT.4	Using a standard algorithm
	Unit 2 - Team Jackson	4.MD.2	Solving problems involving distance
		4.MD.1	Creating and using a two column table
		4.OA.2	Solving problems involving multiplicative comparison
	Unit 4 - Shoe Drive	4.MD.2	Solving problems with fractions
		4.OA.2	Making and using line plots
Mr. Gonzalez's Science Class	Unit 6 – Kids With a Mission	4.MD.2	Solving problems involving money
		4.NF.7	Comparing numbers to hundredths
	Unit 1 - What's the Temp.?	4.MD.2	Creating a number line to solve problems
		4.NBT.3	Rounding to the nearest 10
		4.NBT.4	Using a standard algorithm
	Unit 2 - Let It Snow	4.MD.2	Solving problems involving length
		4.OA.1	Using multiplicative comparison
		4.OA.2	Solving problems using multiplicative comparison
	Unit 4 – Off To The Races!	4.MD.2	Solving problems with fractions
		4.MD.4	Creating a line plot to solve problems
		4.NF.2	Comparing fractions
		4.NF.3	Solving problems with mixed numbers using fractions
	Unit 6 - Mr. Gonzalez's Meteorologists	4.NF.4	Multiplying a fraction by a whole number
		4.MD.2	Solving problems involving measurement data using decimals. The task promotes the use of a number line for a measurement scale
		4.NF.7	Comparing two decimals to hundredths
Jackson	Unit 1 - Jackson's Lawn Service	4.MD.2	Solving problems involving money with whole numbers
		4.NBT.4	Using a standard algorithm in a multiplication pattern
	Unit 2 – Jackson's Lawn Service	4.MD.2	Solving problems involving money with whole numbers
		4.OA.5	Generating a number pattern
Haylee	Unit 4 - Haylee's Bakery	4.OA.2	Solving multiplicative comparison problems
		4.MD.2	Solving problems involving volume
		4.NF.3	Adding and subtracting fractions
		4.NF.4	Multiplying fractions by a whole number