

Mathematics Curriculum



Topic D

Two- and Three-Digit Measurement Addition Using the Standard Algorithm

3.NBT.2, 3.NBT.1, 3.MD.1, 3.MD.2

Focus Standard:	3.NBT.2	Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.
Instructional Days:	3	
Coherence -Links fr	om: G2–M2	Addition and Subtraction of Length Units
	G2-M5	Addition and Subtraction Within 1000 with Word Problems to 100
-Links to	G4-M1	Place Value, Rounding, and Algorithms for Addition and Subtraction

In Topic D, students revisit the standard algorithm for addition, which was first introduced in Grade 2 (2.NBT.7). In this topic, they add two- and three-digit metric measurements and intervals of minutes within 1 hour. Lesson 15 guides students to apply the place value concepts they practiced with rounding to model composing larger units once on the place value chart. They use the words *bundle* and *rename* as they add like base ten units, working across the numbers unit by unit (ones with ones, tens with tens, hundreds with hundreds). As the lesson progresses, students transition away from modeling on the place value chart and move toward using the standard algorithm.

Lesson 16 adds complexity to the previous day's learning by presenting problems that require students to compose larger units twice. Again, students begin by modeling on the place value chart, this time renaming both the ones and tens places. Lesson 17 culminates the topic with applying addition involving renaming to solving measurement word problems. Students draw tape diagrams to model problems. They round to estimate the sums of measurements and then solve problems using the standard algorithm. By comparing their estimates with precise calculations, students assess the reasonableness of their solutions.



Two- and Three-Digit Measurement Addition Using the Standard Algorithm



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A Teaching Sequence Toward Mastery of Two- and Three-Digit Measurement Addition Using the Standard Algorithm			
	Objective 1:	Add measurements using the standard algorithm to compose larger units once. (Lesson 15)	
	Objective 2:	Add measurements using the standard algorithm to compose larger units twice. (Lesson 16)	
	Objective 3:	Estimate sums by rounding and apply to solve measurement word problems. (Lesson 17)	



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