











Unit Goals

 Unit 4: students understand how to subtract two-digit numbers reliably using the standard algorithm that draws from students' knowledge of place value and tens. As they apply the algorithm, they will explain their reasoning and deepen their understanding of subtraction. (TE, p. 54)























Supporting Students



Accommodations for students who are struggling:

Some students have difficulty memorizing the process of calculation and easily forget the process or steps of an algorithm, especially if they don't understand the mathematics of the algorithm. In this unit, students learn the process of two-digit plus two-digit addition by decomposing numbers into tens and ones before conducting calculations. Therefore, it is very important for students to use the counting blocks to practice calculating so they can develop a visual image of the calculations. This is a necessary step to understanding the calculation steps of the addition algorithm. To aid students' understanding of the calculation process, it is recommended that students work with counting blocks and are provided with a place value chart that is color coded (i.e., pink for the ones place and yellow for the tens place, as depicted in the student textbook). These tools offer a helpful and very simple visual calculation process guide. A final suggestion for struggling students is to provide them with grid paper to practice the algorithm calculations.



































<text>















Unit outline			
Sub-Units	Lesson	Pages	Primary Learning Content
1. Subtraction (1)	1	23 - 24	Think about how to subtract two-digit numbers.
	2	25 -26	 Use an algorithm to calculate two-digit minus two-digit = two-digit problems without regrouping.
	3	26	 Use the algorithm calculation for two-digit minus one-digit = two- digit problems without regrouping, or two-digit minus two-digit = two-digit or one-digit problems without regrouping.
2. Subtraction (2)	4	27	Think about how to calculate subtraction with two-digit numbers with regrouping.
	5	28	 Use the algorithm to calculate two-digit minus two-digit = two-digit problems with regrouping.
	6	29	 Use the algorithm to calculate two-digit - one-digit = two-digit problems with regrouping, or two-digit minus two-digit = two-digit or one-digit problems with regrouping.
	7	29	 Create problems with two-digit minus one-digit = two-digit problems with regrouping or two-digit minus two-digit = two-digit problems with regrouping.
3. Properties of Subtraction	8	30 - 31	 Use the inverse relationship between addition and subtraction to solve problems and check solutions.
Summary	9	32	Deepen understanding of math content (Power Builder).
	10	33	Deepen understanding of math content (Mastery Problems).
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If we can have more than one digit in one place,

- 453 + 172 = 5125 (five hundred twelve-ten five)
- 37 can be interpreted as having both 3 and 7 in the ones place.

