Lesson 6: Use Strategies and Algorithms to Add

Standards Alignments

Addressing   3.NBT.A.2

Teacher-facing Learning Goals

- Add within 1,000 using an algorithm or another strategy based on the numbers being added.

Student-facing Learning Goals

- Let's consider when to use algorithms and when to use other strategies to add.

Lesson Purpose

The purpose of this lesson is for students to record newly composed tens and hundreds with a single digit and to consider when they might use algorithms or other strategies to add.

In previous lessons, students learned how to use an algorithm that records a single digit for the sum in each place value position, but records 10 or 100 for a newly composed ten or hundred. The purpose of this lesson is for students to continue to work with algorithms, but see that newly composed tens or hundreds can be recorded as a single digit at the top of the tens column or hundreds column. Students also take time to consider when it makes sense to use an algorithm and when it makes sense to use another strategy, such as those learned in grade 2. Students will consider how thinking about the numbers in the problem can help them use their knowledge of addition flexibly to add within 1,000.

This lesson has a Student Section Summary.

Access for:

♿ Students with Disabilities

- Engagement (Activity 2)

🌐 English Learners

- MLR8 (Activity 1)

Instructional Routines

Number Talk (Warm-up)

Lesson Timeline

Warm-up	10 min
Activity 1	15 min

Teacher Reflection Question

What surprised you most about student thinking as they learned how to use algorithms for adding multi-digit numbers?

Activity 2	20 min
Lesson Synthesis	10 min
Cool-down	5 min

Cool-down (to be completed at the end of the lesson) ⏱ 5 min

Algorithm or Another Strategy?

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Student-facing Task Statement

Would you use an algorithm or another strategy to find the value of $299 + 179$?

Explain your reasoning.

Student Responses

Answers vary. Sample response: Instead of using an algorithm, I would take 1 away from 179 and add it to the 299. Then I can find $300 + 178$, which is 478.