

Curriculum Parent Overview - Unit 7 (Grade 3)

MATHEMATICS

UNIT #7: HOW MANY MILES? (ADDITION/SUBTRACTION/NUMBER SYSTEMS 2)

CONTENT FOCUS:

This unit develops students' ideas about counting and quantity, place value and the structure of the base-ten number system, the meaning of operations with whole numbers, the development of computational fluency, and generalizations about numbers and operations. In this unit, these ideas are developed through activities that focus on understanding the operations of addition and subtraction, and adding and subtracting fluently.

UNIT FOCUS:

- Measurement of liquid volume and mass: Students are introduced to the measurement of liquid volume and mass. They measure the amount of water different containers hold using metric standard units. They use a graduated cylinder and a liter bottle to make measurements. They measure the mass of objects with pan balances using metric standard units. After measuring liquid volume and mass, students solve addition and subtraction problems involving liquid volume and mass.
- Adding and subtracting fluently: Students continue to develop fluency with addition and subtraction of numbers to 1,000. Fluency in computation requires breaking numbers apart in convenient ways. They continue to focus on the meaning of the place value of the digits in the numbers they are using.
- Strategies for adding/subtracting whole numbers: As students study the operations of addition and subtraction in Grade 1 through 3, they increase their understanding of these operations - their characteristics, their relationships to each other, and the ways to visualize how they behave.

MATHEMATICAL PRACTICES:

MP1: Make sense of problems and persevere in solving them.

MP3: Construct viable arguments and critique the reasoning of others.

CONNECTIONS TO PREVIOUS CONTENT:

This unit builds on the work students have done in Unit 3, where students deepened their understanding of place value and of the structure of numbers to 1,000. They began refining their strategies for solving addition and subtraction problems. The work in this unit assumes students bring with them an understanding of the properties of addition and subtraction, and the ability to solve addition and subtraction problems with numbers under 400. In Grade 2, students learned to solve problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and cents symbols appropriately. In Grade 3, students have also maintained familiarity with the context of money in Today's Number Ten-Minute Math exercises.

CONNECTIONS TO FUTURE CONTENT:

Students leave Grade 3 being able to fluently solve addition and subtraction problems within 1,000. In Grade 4, students continue their study of the operations and place value and expand their work to numbers up to 1,000,000. They are expected to leave Grade 4 able to fluently solve addition and subtraction problems choosing from a variety of strategies, including the U.S. standard algorithm.

MATH AT HOME:

- Play any of the following games with your child on Pearson Site after it has been introduced in the classroom:
 - Capture from 300 to 600
 - Collections Match
- Visit [Investigations Math At-Home](#) for ideas
- Review the Math Words and Ideas videos for this unit on [Pearson Site](#)