

Curriculum Parent Overview (Kindergarten)

MATHEMATICS

UNIT #8: Ten Frames and Teen Numbers

CONTENT FOCUS: Students solve story problems with an unknown result, relating a problem to the equation that it represents. They make up and solve their own stories to go with subtraction expressions. Games that develop fluency with addition and subtraction within 5 are also the focus. Students will compose and decompose into two groups and find the complement of 10 when given one addend. They engage in activities that focus on writing the teen numbers and seeing them as a group of 10 ones and some leftover ones. Students directly compare the weight of two objects, first using their hands, and then a pan balance.

UNIT FOCUS:

- Counting and representing quantities: In this unit, students extend and refine their rote counting skills, counting higher in the number sequence and starting from numbers other than one. They also develop familiarity with the counting by 10's sequence. Students also continue to develop and refine their strategies for counting larger quantities.
- Understanding, representing, and solving addition and subtraction problems: Students continue to retell, model and solve story problems, with a particular focus on subtraction. They continue to develop strategies for solving such problems, and for recording their work. Students now tell stories to match a given addition and subtraction expression and continue to decompose numbers in different ways.
- Understanding place value: A major focus of this unit is making sense of the teen numbers as ten ones and some number of ones. Connecting the number names, numerals and quantities of teen numbers is the first step. When they record information with equations, they begin to notice the important regularities in the structure of these numbers and the written numeral. This work lays the foundation for the work with place-value concepts and ideas students will encounter in Grade 1.
- Understanding weight: Students begin their work with weight by comparing weights directly, with their hands, and then with a pan balance. The work is focused on words and ideas like *heavy*, *heavier*, *light*, and *lighter*. Students begin to also think about measuring weight in a quantitative way when they put an object on one side of a pan balance, and then figure out how many cubes or pennies it weighs.

MATHEMATICAL PRACTICES:

MP8: Look for and express regularity in repeated reasoning.

MP7: Look for and make use of structure.

CONNECTIONS TO PREVIOUS CONTENT: In Unit 6, students had many opportunities to develop their sense of numbers and quantities to 20; to make sense of the operations of addition and subtraction by acting out stories and playing games that involved combining and separating small amounts and to use numbers and notation to describe a variety of different mathematical equations. Unit 7 gave students practice with the rote counting sequence to 75, and introduced the idea of counting by 10's.

CONNECTIONS TO FUTURE CONTENT: This unit, and all of the units in the Kindergarten Number and Operations strand, lays the foundation for the work students do in Grade 1 with counting, addition and subtraction, and place value. In Grade 1 students count and compare larger quantities, connect counting to the operations of addition and subtraction, and continue to develop their understanding of and strategies for addition and subtraction problems. The work in Kindergarten lays the foundation for seeing ten ones as one group of ten, which forms the basis for the place-value work in Grade 1 as students compose and decompose 2-digit numbers with a specific focus on groups of 10 and ones.

MATH AT HOME:

- Play any of the following games with your child on SavvasRealize site after it has been introduced in the classroom:
 - Build and Remove
 - Build It, Then Race to the Top
 - Build It: Teen Numbers
 - Fill the Treasure Chest
 - How Many to 10?
 - Race to the Sun
 - Race to the Top: Teen Numbers
 - Race to the Top: Teen Numbers 2
 - Race to the Top: Ten Frames
 - Toss 10 Chips
- Continue to find opportunities to practice counting with larger numbers letting your child pick the starting number and ending number. You can also practice counting by 10's.
- Practice solving and addition and subtraction problems by using and thinking about different strategies.
- Ten is an important number in our number system; think of ways to make 10.
- Review the Math Words and Ideas videos for this unit on SavvasRealize site.