

# Curriculum Parent Overview (Grade 1)

## MATHEMATICS

### UNIT #5: Number Games and Crayon Puzzles (Addition, Subtraction and the Number System 3)

#### CONTENT FOCUS:

Students focus on combinations of 10 as they solve story problems, play games, and practice routines. They also encounter a new type of story problem: put together/take apart problems with one addend unknown. Students refine their understanding of the equal sign as a symbol of equivalence as they consider whether equations involving addition and subtraction are true or false and determine the missing number in an addition / subtraction equation (e.g.,  $3 + \_ = 7$ ).

#### UNIT FOCUS:

- Understanding, representing, and solving problems involving addition and subtraction: Students continue to focus on making sense of the operations of addition and subtraction, practicing adding and subtracting single-digit numbers, and solving addition and subtraction story problems. The main focus is understanding the combinations of 10. Students work with two-addend combinations that equal 10.
- Understanding equivalence: Using the equal sign with meaning and understanding is a focus throughout this unit. While most first graders are confident that  $5 + 5$  and 10 have the same value, their understanding of the equal sign can be uncertain (e.g.,  $5 + 5 = 10$ ,  $10 = 5 + 5$ , or  $5 + 5 = 6 + 4$ ). Asking students to consider whether or not an equation is true or false provides another opportunity to build this strategy.
- Understanding place value: Students understanding that a teen number is one group of ten plus some number of ones (e.g.,  $15 = 10 + 5$ ). They also will recognize that the first digit of a 2-digit number designates the number of groups of 10 and the second digit designates the number of ones.

#### MATHEMATICAL PRACTICES:

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

MP5: Look for and make use of structure.

#### CONNECTIONS TO PREVIOUS CONTENT:

This unit builds on the foundations laid by the first and second number systems units. In those units, students solved story problems of a variety of types and developed fluency with counting 50-60 objects and counting to 120. Students thought about ten ones as a group of tens as they identified numbers and patterns on the 120 chart.

#### CONNECTIONS TO FUTURE CONTENT:

Fluency with addition and subtraction within 10 lays a piece of the groundwork for developing strategies to solve addition and subtraction of larger numbers in Unit 7. It also supports Grade 2 students when developing fluency within 20. Also, students' understanding of the teen numbers as the sum of 10 plus another number lays the foundation for their work with place value in Unit 7. There, they make and take apart 2-digit numbers into groups of tens and ones, and add and subtract 2-digit numbers within 100 (e.g.,  $49 - 20 = 29$ ).

#### MATH AT HOME:

- Students can play the following games played in this unit:
  - Make 10

- Counters in a Cup
- How Many Am I Hiding?
- Tens Go Fish
- Ten Plus
- Five-in-a-Row with Three Cards
- Five-in-a-Row: Subtraction with Three Cubes
- Dot Addition
- The Penny Jar Game
- Review the Math Words and Ideas videos for this unit on SavvasRealize site.