Standard K.NBT. 1 Compose and decompose numbers from 11-19 into ten ones and some further ones. Use objects or drawings and record each composition or decomposition by a drawing or equation. For example, $18=10+8$. Understand that these numbers are composed of ten ones and one, two, three, four, five, six, seven, eight, or nine ones.

- Compose and decompose numbers from 11-19 into a group of ten ones and some more ones
- Use objects and drawings to represent numbers 11-19 as a group of ten ones and some more ones
- Connect physical representations (objects) to visual representations (drawings)
- Understand that the numbers 11-19 are made up of two digits
- Connect and use physical and visual representations to create equations to represent numbers 11-19 as ten plus a single-digit number equals a two-digit number $(10+3=13)$
- Move flexibly between recognizing and writing equations with the total on both sides of the equal sign

Teacher Note: In kindergarten, students compose and decompose numbers from 11-19 into ten ones and some further ones. They do not unitize a group of ten ones as a "ten." In first grade, students extend this understanding to unitize a group of ten ones as a "ten." They also understand two-digit numbers as having multiple "tens."
K.CC. 1 Count to 100 by ones and by tens
K.CC. 3 Read and write numbers using base ten numerals from 0 to 20 K.CC. 4 Understand the relationship between numbers and quantities K.OA. 3 Decompose numbers less than or equal to 10. Record each decomposition by a drawing or equation

## Critical Background Knowledge

ten, ones, digit(s), group, number, decompose, compose, equation, equal, plus, number names 1-19
Groupable Base-ten Models


Counters and cups


Bundle of ten sticks and four individual sticks



路 en frame and equation

- Use a variety of groupable objects such as counters with cups, linking cubes, and bundles of sticks to represent a teen number
- Use ten frames to represent a teen number
- Use drawings to represent a teen number
- Write equations based on physical and visual representations
- Move from counting all to recognizing a group of ten ones and some more ones
- After much exposure to groupable base-ten models, use pregrouped base-ten models such as base-ten blocks to represent a number 11-19

Images Sources: http://www.dpi.state.nc.us/docs/curriculum/mathematics/scos/kindergarten.pdf and p. 159

