K- What Your Child Will Learn Module/Unit 1

- Write numbers from 0 to 20.
- Understand the relationship between numbers and quantities.
- Counting objects
- Understand that the last number spoken tells the number of objects counted
- Understand that each successive number name refers to a quantity that is one larger
- Count to answer "how many?" questions about as many as 20 things arranged in different ways
- Decompose numbers less than or equal to 10 into pairs by using objects or drawings, and record each by a drawing or equation (e.g., 5 = 2 + 3 and 5 = 4 + 1).
- Classify objects up to 10 into given categories
- Sort the categories by count.

Vocabulary

Exactly the same/not exactly the same/the same, but...(ways to analyze objects to match or sort)

Match (group items that are the same or that have the same given attribute)

Sort (group objects according to a particular attribute)

"How many" (with reference to counting quantities or sets)

Hidden partners (embedded numbers)

Counting path (with reference to order of count)

Number story (stories with add to or take from situations)

Zero (understand the meaning of, write and recognize)

Number sentence (3 = 2 + 1)

5-group

Rows/columns (linear configuration types)

Number path

1 more (e.g., 4. 1 more is 5)

1 less (e.g., 4. 1 less is 3)

Adapted from Lafayette Parish Schools and Eureka Math
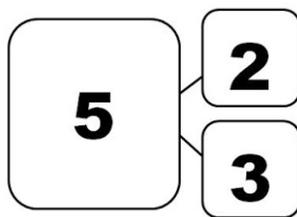
Teaching Terminology

Compose and Decompose

"…this unit is about composing and decomposing the numbers from 5 to 10. Composing and decomposing are just fancy words for knowing that a whole is comprised of parts. For example, knowing that 5 can be 'composed' of, or 'decomposed' into, 0 and 5, 1 and 4, or 2 and 3." (Donna Boucher, The Math Coach)

(e.g., 5 = 2 + 3 and 5 = 4 + 1).

Number Bonds

"In her book *Why Before How: Singapore Math Computation Strategies*, Jana Hazekamp explains number bonds this way: *Number bonds help students see that numbers can be "broken" into pieces to make computation easier. With number bonds, students recognize the relationships between numbers through a written model that shows how the numbers are related.* A number bond for the numbers 2, 3, and 5 might look like the model below. I have also seen the whole on top with the parts branching down." (Donna Boucher, The Math Coach)

Activities At Home

- Play the license plate game with numbers as you walk through your neighborhood. Have them look for a 1 on a license plate. Then find a 2, then a 3, and so on.
- Write your name and a family member's name. How many letters are in your name? How many are in your family member's name? Which name has more?
- Look through a store ad. Cut out numbers 0-20. Put the numbers in order from least to greatest.
- Grab a handful of an item, cereal, beans, etc. Estimate how many pieces you grabbed. Now count them. Was your estimate close?
- Estimate how many steps it takes to get to your room. Count each step as you go.
- Show the number 5 in as many ways as you can. Use pictures and numbers.
- Consider reading *Ten Little Fish*