

Dear Parents,

We will begin our next unit of study in math soon. The information below will serve as an overview of the unit as you work to support your child at home. If you have any questions, please feel free to contact me. I appreciate your on-going support.

Sincerely,

Your Child's Teacher

Unit Name:

Addition and Subtraction within 10

Common Core State Standards:

K.OA.1 Represent addition and subtraction with objects, fingers, mental images, drawings, sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations.

K.OA.2 Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem.

K.OA.3 Decompose numbers less than or equal to 10 into pairs in more than one way, e.g., by using objects or drawings, and record each decomposition by a drawing or equation (e.g., $5 = 2 + 3$ and $5 = 4 + 1$).

K.OA.4 For any number from 1 to 9, find the number that makes 10 when added to the given number, e.g., by using objects or drawings, and record the answer with a drawing or equation.

K.OA.5 Fluently add and subtract within 5.

Essential Vocabulary:

- Join (addition)
- Separate (subtraction)
- Story Problem
- Partners

Unit Overview:

In this unit, students will understand that addition is putting together and subtraction is taking apart or taking from. Students will use objects, fingers, drawings to represent addition and subtraction story problems. To master this developmental milestone, students will need multiple experiences with objects and drawings to anchor mental images. Though these experiences students will begin to see that a set of objects (5) can be broken into sub-sets (3 and 2) and still remain a total amount (5). Students will also see a set of objects can be broken multiple ways (3 and 2; 4 and 1). After multiple experiences with objects and drawings, students will move toward fluency. Fluency is the student drawing on their previously established mental images to quickly provide an answer. Students are only expected to be fluent when adding and subtracting up to five. Students will begin to build their foundation and experiences for ten being a “friendly number.” Students will use manipulatives and ten frames to identify how many they have and how many more are needed to make ten. Through multiple experiences, students will begin to identify which “partners” continue to show up when making ten. This will help transition them to fluently identify how many they have and how many more are needed. It is not effective for students to skip establishing mental images and only use flash cards or oral recall.

Strategies/Skills:

As students are being introduced to this new unit, students will need multiple experiences with manipulatives and drawings to develop mental images. After multiple experiences students will begin to draw upon these mental images as they see the numerals being put together and taken apart, therefore moving toward fluency.

As we are mastering “partners,” students will use a break-a-part stick to break the set into a smaller sub-set.

Wake County Public Schools, Unit Overview for Parents

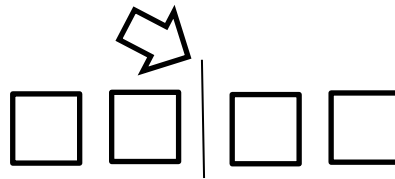
This document should not replace on-going communication between teachers & parents.

Dear Parents,

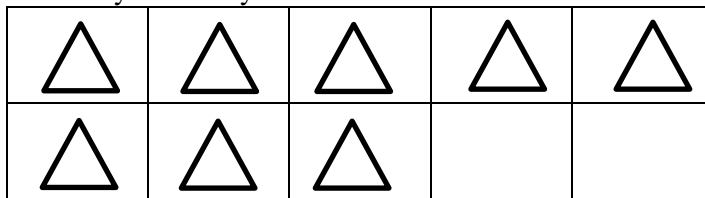
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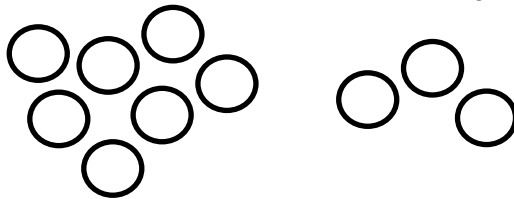


When making a ten students will utilize a ten frame to help organize how many they have and clearly see how many more they need.



Students will say, "I have 8 and need 2 more."

Students will then move toward the think addition strategy (still utilizing objects). Objects being used will move away from a ten frame and into a scattered arrangement.



Students will say, "I have seven, I need 3 more."

Video Support:

Video support can be found on The WCPSS Academics YouTube Channel.

- <http://tinyurl.com/WCPSSAcademicsYouTube>
 - [ES K Math Partners](#)
 - [ES K Math Story Problems](#)

Additional Resources:

If you have limited/no internet access, please contact your child's teacher for hard copies of the resources listed in this document.

- NCDPI Unpacking Document: [Kindergarten Unpacking Document](#)
- When You Subtract With a Pirate <https://www.youtube.com/watch?v=QkPa9V2wtZs>
- When You Add With a Pirate https://www.youtube.com/watch?v=WT_wvvEvkw4