

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 & Subtraction within 20

#### Common Core State Standards:

**1.OA.1** Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.

**1.OA.3** Apply properties of operations as strategies to add and subtract. Examples: If  $8 + 3 = 11$  is known, then  $3 + 8 = 11$  is also known. (Commutative property of addition.) To add  $2 + 6 + 4$ , the second two numbers can be added to make a ten, so  $2 + 6 + 4 = 2 + 10 = 12$ . (Associative property of addition.)

**1.OA.4** Understand subtraction as an unknown-addend problem. For example, subtract  $10 - 8$  by finding the number that makes 10 when added to 8. Add and subtract within 20. For example, subtract  $10 - 8$  by finding the number that makes 10 when added to 8. Add and subtract within 20.

**1.OA.5** Relate counting to addition and subtraction (e.g., by counting on 2 to add 2).

**1.OA.6** Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. Use strategies such as counting on; making ten (e.g.,  $8 + 6 = 8 + 2 + 4 = 10 + 4 = 14$ ); decomposing a number leading to a ten (e.g.,  $13 - 4 = 13 - 3 - 1 = 10 - 1 = 9$ ); using the relationship between addition and subtraction (e.g., knowing that  $8 + 4 = 12$ , one knows  $12 - 8 = 4$ ); and creating equivalent but easier or known sums (e.g., adding  $6 + 7$  by creating the known equivalent  $6 + 6 + 1 = 12 + 1 = 13$ ).

**1.OA.8** Determine the unknown whole number in an addition or subtraction equation relating three whole numbers. For example, determine the unknown number that makes the equation true in each of the equations  $8 + ? = 11$ ,  $5 = \_ - 3$ ,  $6 + 6 = \_$ .

#### Essential Vocabulary:

- Comparing
- Counting On
- Equal To
- Equation
- Making Ten
- Sum
- Unknown

#### Unit Overview:

Students will be able to represent and solve problems involving addition and subtraction. They will develop strategies for adding and subtracting whole numbers based on their prior work with small numbers. In addition, they will also use a variety of manipulatives to model and develop meaning for the operations of addition and subtraction. They will also develop mathematical strategies to solve problems with these operations.

#### Strategies/Skills:

An important component of solving problems involving addition and subtraction is the ability to recognize that any given group of objects (up to 10) can be separated into sub groups in multiple ways and remain equivalent in amount to the original group (Ex: A set of 6 cubes can be separated into a set of 2 cubes and a set of 4 cubes and remain 6 total cubes).

During this unit, the students will:

- Represent and solve problems involving addition and subtraction.

#### Wake County Public Schools, Unit Overview for Parents

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

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- Understand and apply properties of operations and the relationship between addition and subtraction.
- Add and Subtract within 20, working with equations.

### **Video Support:**

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

- <http://tinyurl.com/WCPSSAcademicsYouTube>
  - [ES 1 Math Addition & Subtraction within 20 Counting All](#)
  - [ES 1 Math Addition & Subtraction within 20 Change Unknown](#)- Counting On
  - [ES 1 Math Addition & Subtraction within 20 Counting On](#)
  - [ES 1 Math Addition & Subtraction within 20 Making Ten Method](#)
  - [ES 1 Math Addition & Subtraction within 20 Subtraction](#) - Break Apart Lines
  - [ES 1 Math Addition & Subtraction within 20 Subtraction](#) - Number Lines

Video Support can be found on the Khan Academy website.

- <https://www.khanacademy.org/math/early-math/cc-early-math-add-sub-topic/cc-early-math-add-subtract-20/v/adding-within-20>

### **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: [1<sup>st</sup> Grade Unpacking Document](#)
- <http://www.abcya.com/addition.htm>
- <http://illuminations.nctm.org/Activity.aspx?id=3566>
- <http://mathwire.com/games/addsubgames.html>