

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

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.2 Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20, 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.

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:

- | | | |
|-----------------|--------------------|------------------------|
| • Add/Addition | • Equal/Equivalent | • Subtract/Subtraction |
| • Adding to | • Equation | • Sum |
| • Comparing | • False | • Taking Apart |
| • Counting Back | • Making Ten | • Taking From |
| • Counting All | • Minus | • True |
| • Doubles | • Putting Together | • Unknown |

Unit Overview

First grade students will develop strategies for adding and subtracting whole numbers based on their prior work with small numbers. They will use a variety of models including discrete objects and length-based models (e.g., cubes connect to form lengths), to model add-to, take-from, put-together, take-apart, and compare situations to develop meaning for the operations of addition and subtraction, and to develop strategies to solve arithmetic problems with these operations.

Through this unit, first grade students will understand the connection between counting and addition and subtraction (e.g., adding three is the same as counting on three). They use properties of addition to add whole numbers and to create and use increasingly sophisticated, but developmentally appropriate strategies based on these properties (e.g., "Making Tens") to solve addition and subtraction problems within 20.

By comparing a variety of solution strategies, first graders build their understanding of the relationship between 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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Strategies/Skills:

First grade students will be able to:

- Understand and apply properties of operations and the relationship between addition and subtraction.
- Represent and solve problems involving addition and subtraction.
- Add and subtract within 20.
- Work with addition and subtraction equations.

Video Support:

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

- <http://tinyurl.com/WCPSSAcademicsYouTube>
 - [ES 1 Math Subtraction Back Down through Ten Using a Number Line](#)
 - [ES 1 Math Subtraction Back Down through Ten Using Tens Frames](#)
 - [ES 1 Math Think Addition Tens Frames](#)
 - [ES 1 Math Associative Property of Addition](#)
 - [ES 1 Math Subtraction Back Down through Ten](#)
 - [ES 1 Math Think Addition](#)
 - [ES 1 Math Commutative Property of Addition](#)

Video support can be found on the Kahn Academy Website.

- <http://www.khanacademy.org>
 - [Introduction to Addition and Subtraction](#)
 - [Addition and Subtraction with 10](#)
 - [Addition and Subtraction 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 Additional Resources](#)
- <http://www.abcya.com/addition.htm>
- http://www.abcya.com/math_facts_game.htm
- http://www.abcya.com/drop_sum.htm
- http://www.abcya.com/subtraction_game.htm
- <http://illuminations.nctm.org/Activity.aspx?id=3565>
- <http://illuminations.nctm.org/Activity.aspx?id=3566>
- <http://illuminations.nctm.org/Activity.aspx?id=4131>
- <http://www.mathwire.com/games/addsubgames.html>
- <http://www.mathwire.com/numbersense/bfacts.html>

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Questions to Ask When Helping Your Child with Math Homework

Keep in mind that homework in elementary schools is designed as practice. If your child is having problems, please let the classroom teacher know. When helping your child with his/her math homework, you don't have to know all the answers! Instead, we encourage you to ask probing questions so your child can work through the challenges independently.

- What is the problem you're working on?
- What do the directions say?
- What do you already know that can help you solve the problem?
- What have you done so far and where are you stuck?
- Where can we find help in your notes?
- Are there manipulatives, pictures, or models that would help?
- Can you explain what you did in class today?
- Did your teacher work examples that you could use?
- Can you go onto another problem & come back to this one later?
- Can you mark this problem so you can ask the teacher for an explanation tomorrow?