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:
Fluency & Accuracy for Addition & Subtraction

Common Core State Standards:

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).

Essential Vocabulary:

- Addition
- Back Down Through Ten
- Counting On
- Equal
- Equivalent
- Fluency
- Internalized Fact
- Making Ten
- Relationship (numeric)
- Strategy
- Subtraction
- Sum
- Ten

Unit Overview:

In First Grade, students learn about and use various strategies to solve addition and subtraction problems. When students repeatedly use strategies that make sense to them, they internalize facts and develop fluency for addition and subtraction within 10. When students are able to demonstrate fluency within 10, they are accurate, efficient, and flexible. First Graders then apply similar strategies for solving problems within 20, building the foundation for fluency to 20 in Second Grade.

Strategies/Skills:

First grade students will be able to add and subtract using developmentally appropriate strategies :

- Fluently add and subtract within 10.
  - Counting On
  - Internalized Fact
- Add and subtract within 20.
  - Making Ten and Decomposing a Number
  - Creating an Easier Problem with Known Sums
  - Back Down through Ten
  - Relationship Between Addition & Subtraction

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Video Support:

Video support can be found on Khan Academy.

- https://www.khanacademy.org/
  - Adding to 10
  - https://www.khanacademy.org/math/early-math/cc-early-math-add-sub-topic/cc-early-math-add-subtract-10/v/adding-to-10-example
  - Adding within 20
  - https://www.khanacademy.org/math/early-math/cc-early-math-add-sub-topic/cc-early-math-add-subtract-20/v/adding-within-20

Video support can be found on YouTube.

- Break Down to 10 Strategy
- Addition and Subtraction Relationship
- Make 10 Strategy

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
- Addition and Subtraction Games
  - Making Ten
  - http://www.abcya.com/jet_ski_addition.htm
  - http://www.mathwire.com/games/addsubgames.html

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?