# MATH MATTERS 

## Resources and Ideas for Families

## WELCOME!

This newsletter is sent home to families every nine weeks. It provides information on what your child is learning in math, activities you can do at home to reinforce the content, and suggestions for books and resources you can use to help your child learn math.

## BUILDING A MATHEMATICAL COMMUNITY

Students will develop a problem solving protocol that will be posted in their math classroom.

Step 1: Read the question/prompt and quietly think on your own. No Pencils.

Step 2: Talk about the problem with your teammates. What is your plan to solve? Choose your strategy.

Step 3: Solve the problem.


Step 4: Discuss results.


1. Draw a picture
2. Make a Chart or list
3. Guess and Check
4. Use a formula
5. Look for a pattern
6. Work Backwards
7. Write a Number Sentence
8. Logical Reasoning



During the 4th nine weeks, first graders learn to:

- Solve addition and subtraction word problems within 20. First graders should be able to solve different types of addition and subtraction word problems. For example, "Emily had 13 candy canes and Mary had 4 candy canes. How many candy canes do they have together?" A subtraction example would be, "Emily had 13 candy canes. If she needs 20, how many more does she need?"
- Add and subtract within 20 using my strategies. By the end of first grade, children are expected to be fluent in addition and subtraction combinations through 10.
- Add a two-digit number to a one-digit number, a two-digit number, or a multiple of ten within 100. For example, add $22+8,44+18$, or $33+10$.
- Mentally find 10 more or 10 less than a number, without having to count. For example, a first grader should be able to add 45+30 and 90-40.
- Subtract multiples of 10 from multiples of 10 . For example, subtract 90-40.
- Solve word problems that call for addition of three whole numbers with a sum less than or equal to 20. For example, Stacy picked one apple. Nate picked two apples. Mary picked three apples. How many apples did they pick?


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## Activities to Try at Home:

- Fishin' for Addition is a fun game to practice addition facts to 20. Follow the link to find the game board and directions. http://www.learn-with-math-games.com/ easy-math-games.html
- Continue practicing addition and subtraction facts with your child. There are a variety of games available online to make learning the facts more interesting.
- Measure the length of objects around your house using nonstandard units such as paperclips, pennies, goldfish crackers, etc. For example, measure the length of a magazine using pennies placed end to end. After your child has measured several objects, ask your child to put the objects in order from shortest to longest and ask them to explain how they know.


## Check Out These Books!

Below are some suggested books which connect to math content students are learning this cycle.

- Length by Henry Pluckrose
- Measuring Penny by Loreen Leedy
- How Tall? How Short? How Far Away? by David A. Adler
- How Long or How Wide? A Measuring Guide by Brian P. Cleary
- What's New at the Zoo? An Animal Adding Adventure by Suzanne Slade and Joan C. Waites



## MATH TASK

Task: $\quad$ Na/ Daisies in Vases

Jasmine has eight daisies and three vases-one large, one medium-sized, and one small. She puts 5 daisies in the large vase, 2 in the medium vase and 1 in the small vase.

- Can you find another way to put daisies so that there are the most in the large vase and least in the small vase?
- Try to find as many ways as you can put the daisies in the vases with the most in the large vase and the least in the smallest vase. If you think you have found them all, explain how you know those are all the possibilities.


