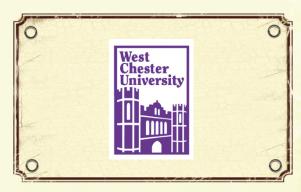


## Cap Creations

Level 2: 3<sup>rd</sup>-5<sup>th</sup> Grade





Compiled by Lisa McMahon



#### An Overview of your Cap Kit

Now that you have your cap kit, you have unlimited possibilities with a sustainable, handson, and authentic learning tool. Your students will benefit from the differentiated, engaging, and play-based activities that can be created using bottle caps.

Each kit includes both an alphabet set and a numerical set. There are 3 of each vowel and "more popular" letters, and 2 of every other letter. We also have included 20 blank caps so you can create other needed caps at your discretion.

Here is a breakdown of the cap kit: Note – all kits include 20 blank caps unless otherwise noted

If 3: 1 Capital, 2 lowercase,

If 2: 1 Uppercase 1 Lowercase			Math Symb	Math Symbols:	
□ E (3)	□ L (3)		□ 1 (3)	□ <b>+</b> (2)	
□ T (3)	□ U (3)	□ V (2)	□ 2 (3)	□ - (2)	
□ A (3)	□ C (2)	□ K (2)	□ 3 (3)	□ = (2)	
□ O (3)	□ M (2)		□ 4 (3)	□ < (2)	
□ I (3)	□ F (2)	□ X (2)	□ 5 (3)	□ > (2)	
□ N (3)	□ G (2)	□ J (2)	□ 6 (3)	□ ≤ (2)	
□ S (3)	□ Y (2)	□ Q (2)	□ 7 (3)	□ ≥ (2)	
□ H (3)	□ P (2)	□ Z (2)	□ 8 (3)		
□ R (3)	□ W (2)		□ 9 (3)		
□ D (3)	□ B (2)		□ 0 (3)		



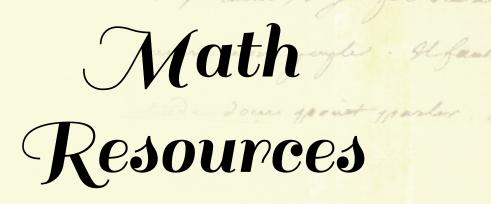
#### Your Resource Guide

This resource guide aims to provide parents and teachers with a broad spectrum of ideas and ways to use the bottle caps to promote learning. While it is by no means a complete list of every activity possible, the goal is to give you a starting point and basic activities to get the creative juices flowing. The possibilities truly are endless with the amount of activities you can do! From math to literature, art to science, bottle caps can be used for almost anything to help your child learn in an authentic manner.

#### PLEASE READ CAREFULLY

The contents in this resource guide are not all the personal ideas of Lisa McMahon or the editors. However, this is an original compilation of all the resources. Each of the resources are cited before/throughout each of the activities.

The following pages are the beginning of the compiled resources. This packet is designed so that both parent and teachers can simply print/copy directly from this packet, so there are some pages without any "introduction".



For the Early Grades

3<sup>rd</sup> through 5<sup>th</sup> Grade

#### Shape Matching:

Using stickers or hand-drawn caps, create a game board so students have to match the correct shape on the cap to the same shape on the game board (Example picture taken from

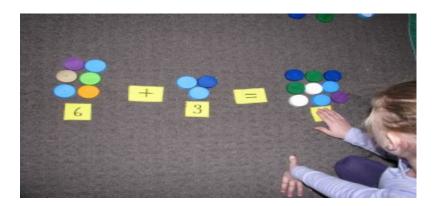
http://habeebeehomeschooling.wordpress.com/2011/06/07/bottle-top-game/)

**Pretend money for imaginative play:** Either find coin stickers and place on caps or simply just allow children to draw their own imaginary coins. If they want, they can even just use plain caps as they are and let their imaginations wonder!



**Basic** Number **Sentences**: Bottle tops can be used as a problem-solving tool when learning basic number sentences. (Practicing multiplication table or understanding "repeated addition")

(The above and below example images taken from <a href="http://www.learning4kids.net/2011/09/09/play-learn-with-bottle-tops/">http://www.learning4kids.net/2011/09/09/play-learn-with-bottle-tops/</a>) \*\*This website has a TON of ideas for imaginative play with bottle caps, definitely worth checking out\*\*



#### Math Facts Bottle Caps from Southern Media Comm.

© 2011 Southern Media Comm. www.flapjackeducationalresources.blogspot.com

With bottle caps, students can **master information**, **work together** with their peers, and **practice** the important skill of **recycling**.



#### What You Need

- Avery labels 5408
- bottle caps
- Stopwatch (optional)
- Some sort of recycled container What To Do
- . 1) Follow the Bottle Caps Guide (next page) for printing, creating, and using your bottle caps.
- 2) Consider having students place the labels on the bottle caps for you. You'll save time, and they'll have a chance to practice their facts.
- . 3) Use bottle caps in stations, centers, or for individually assessing students.
- . 4) If using in small groups, students can use stopwatches to time each other to see how many bottle caps they can answer in a minute (graph is included).

## Bottle caps are so much fun! The ways to use them in the classroom are limitless!

#### Got Labels?

To label your bottle caps with Avery stickers, you will need the following labels:

- Small bottle caps (soda bottle size) 3/4" circle Avery labels 5408 \*(I order them at Amazon.)
- Larger bottle caps (milk-jug size) 1" circle Avery labels 5410 \*(also ordered at Amazon)
- Very large caps (peanut butter jar size) 2 1/2" circle Avery labels 5294 \*(Amazon.com). I don't order these. Instead, I print them out on whole sheet sticker paper and then cut out each individual circle. \*Amazon links may not be working. Just type the label information in the search bar at Amazon.com.

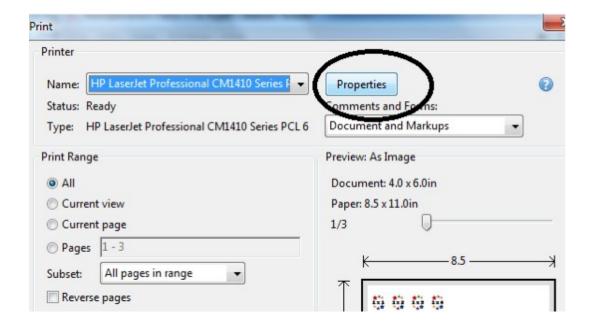
#### **Prep Your Caps**

Make sure to run your caps through the dishwasher or rinse them with warm water and soap. That will help ensure the labels stick and stay on.

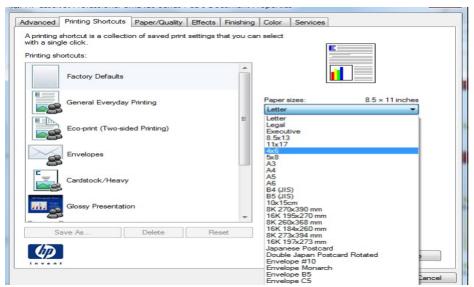
#### **Printing Your Labels**

Every printer is different, so be sure to check your printer manual if you are having issues. Avery also has its own tips inside the label package, so check those out, too. Here is how I do it:

- 1) Change the levers inside the printing tray to fit the size of the  $4 \times 6$  label.
- 2) Place labels inside the 4 x 6 section of the tray.
- . 3) Open the PDF you wish to print.
- 4) Select File and then Print.
- . 5) Select Properties.



- 6) Change your page size to  $4 \times 6$  (In a different printer that I have, I have to change it to index card  $4 \times 6$ ).
- 7) Print!



© 2011 Southern Media Comm. www.flapjackeducationalresources.blogspot.com **Applying the Labels** 

- The problem or question label goes on the top of the cap. The answer goes on the inside.
- When sticking the labels on the caps, I apply pressure in a circular motion. Some Avery labels are re-positionable, but after about 30 minutes, they are there to stay! **Using Caps in the Classroom**
- Fun **hands-on activity** to keep those early finishers busy
- Use in **small groups**. Students spread bottle caps on a table or place in a bag and take turns choosing one. If they are right, they keep the cap. If they are wrong, they place it back. The student with the most caps wins.
- In my classroom, students use timers to time each other with the math fact bottle caps. Students have a minute to see how many caps they can win. They then graph their results. I purchased timers from Learning Resources, and I love them. They're simple and silent.
- Individual Assessment Assess where your students are with math facts, sight words, number recognition, etc. with bottle caps. Students will be more engaged in the activity and less preoccupied with the fact that you are testing them. Storing Your Bottle Caps There are plenty of green ideas for storing your bottle caps, and it just depends on the quantity of how many you have. I've used:
- Pringle cans, bread crumb cans, oatmeal cans
- Cereal boxes, crayon boxes (I reinforce the tops with packaging tape and then place velcro dots to open and close)
- Some drink bottles, such as the Gatorade 32 oz. and the small Simply Juice bottles have a wide enough mouth to store your bottle caps. Design Your Own Bottle Cap Labels 1) Go to Avery Design and Print Online. 2) Write your label product number in the appropriate box. 3) Click on the template that appears

\*\*\*\*\*To see the original post and great printables to go along with the bottle caps, visit: <a href="http://flapjackeducationalresources.blogspot.com/">http://flapjackeducationalresources.blogspot.com/</a>

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#### **Number Sentence Racing**

\*Adapted from http://www.guided-math.com/2012/08/made-it-monday-bottle-cap-math.html Create a set of random "math facts"

For Example:

3x8=24

5x6=30

*12x6=72* 

etc...

Then, create your bottle caps specifically to the set of facts that you're working on, and give a student or student pair a set of the caps.

Each set is complete, meaning there will be no leftover caps once students create their number sentences. If students are working with a partner, students can time each other to see how fast they can put together all the number sentences correctly.

#### **Bottle Cap Probability**

Put 10 water bottle cap numbers in a bag. Have students predict what they will pick most of and least of. Pull out 1 cap at a time. Record the outcome. After each draw, replace the cap in the bag. After 8 draws review the probability data.

\*For a great worksheet and further instructions, visit

http://www.teachersnotebook.com/product/YearntoLearn/bottle-cap-probability

#### **Bottle Cap Fractions**

Give students a set of number bottle caps. Have children pull out a handful, then write fractions to represent their bottle cap set. Create a worksheet giving space to put their fractions for the following possible questions to ask:

- 1. How many are even?
- 2. How many are odd?
- 3. How many are one digit?
- 4. How many are two digits?
- 5. How many are three digits?
- 6. How many have 2 as a digit?
- 7. How many have 5 as a digit?
- 8. How many have 4 as a digit?
- 9. How many have 6 as a digit?
- 10. How many have 8 as a digit?

Visit <a href="http://www.teachersnotebook.com/product/YearntoLearn/bottle-cap-fractions">http://www.teachersnotebook.com/product/YearntoLearn/bottle-cap-fractions</a>
To find a pre-made worksheet

#### **Bottle Cap Ordering**

Create worksheet numbered 1-10 with four circles the size of bottle caps next to each number. Provide each student with a bag of number bottle caps. Have them pull out 4 at a time and record the numbers in sequence from greatest to least.

 $Visit\ http://www.teachersnotebook.com/product/YearntoLearn/bottle-cap-number-ordering$ 

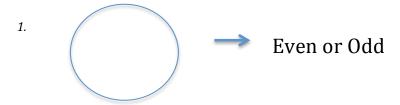
To find a pre-made worksheet

#### Bottle Cap Greater/Less Than

Have students draw one cap out of a bag and write it down. Pull second cap out of the bag and write it down, then have students decide if it is greater than or less than or equal to.

#### Bottle Cap Even and Odd

*Create worksheet numbered 1 through 10, set it up like this:* 



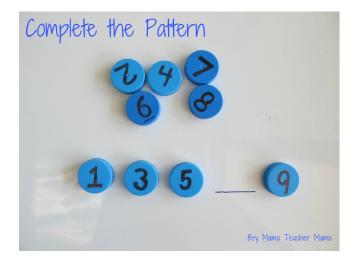
Directions: Put your water bottle cap numbers in a bag. Pull out 1 cap. Record the number in the circle. Determine if it is even or odd and circle your answer

Download worksheet from

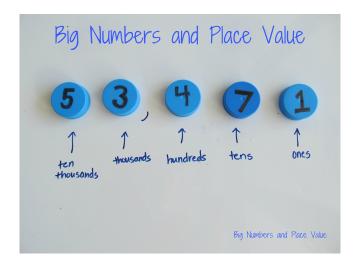
http://www.teachersnotebook.com/product/YearntoLearn/bottle-cap-even-and-odd

**Complete the Pattern**: Create a pattern with a missing number and see if your child can figure out what the number is.

(http://boymamateachermama.com/2012/07/20/teacher-mama-bottle-cap-math/)



**Place Value and Big Numbers:** Use the bottle caps to create and read numbers with more than 2 digits. Talk about which number is in the ones, tens, hundreds etc place and what the value of each number is as well.



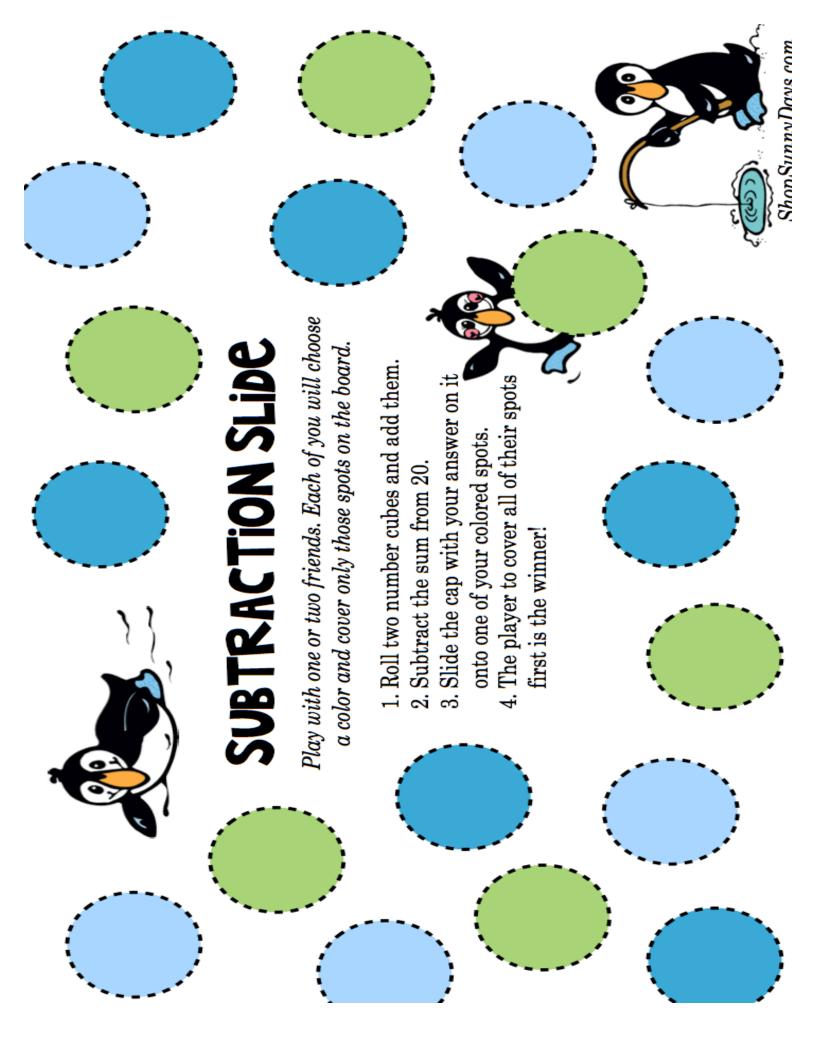
#### **Bottle Caps Math Game:**

Assign each color a value and write it on each of the caps. For example: blue=100, red=50, yellow=20, green=5, and purple=1. Divide your students into small groups and give each group an equal assortment of the make-shift tokens. Assign a math problem such as "18 + 25 + 25 = ?," and have the groups work as a team to calculate the answer by assembling the appropriate tokens. The first team to solve the problem wins the round.

http://www.ehow.com/list\_6537212\_fun-games-middle-school-students.html#ixzz2Js1AxXMS

**Random Math Activities:** (from http://www.teachertipster.com/bottlecaps.pdf)

- -Write days of the week and months of the year on lids and try to put in order
- Pull two lids out and decide which is greater/less
- Put caps in number order
- Use to cover the matching number on a 100s chart
- Pull a cap out of a container and try to build that number with rods and units
- Make color patterns
- Glue coins to the top to make coins easier to manipulate. Great for students with special needs
- Use as manipulatives to show adding and subtracting
- Odd and Even Practice (Red=odd and Green=Even)
- Make a homemade abacus
- Glue magnets on back and use them to cast votes for polls and showing results on pictographs
- Write numbers on one color and operations on another color. Then create number sentences
- Write math facts on outside and answers on the inside
- Practice skip counting. Write numbers by 10s, 5s and 2s on lids and put in order



# Literacy Resources

For the Early Grades:

3<sup>rd</sup> through 5<sup>th</sup> Grade

#### Word Building Activities

#### Fun with Vowels

Introduce the vowels to your class and identify their short vowel sounds. Choose two consonants and place them on a table, leaving enough space between the two letters to place a third letter. Challenge students to create words by placing different vowels in the space. Each time a student places a vowel in the space, ask her to sound out the new word. Did she build a real word or a silly word?

#### Blends and Digraphs

When students are learning blends and digraphs, build a word with the caps, but leave out its beginning letters or ending letters. For example, you might display "\_\_ oes" for "shoes." Then, give students clues one at a time, such as "I'm wearing two of these," and see how quickly they can guess the word and complete it. (Depending on your students' skills, you might want to display letter combinations for them to choose from, such as ch, sl, sh, and so on.)

#### **Long Vowel Spelling Patterns**

Use the vowel caps to display spelling patterns for long vowel sounds, such as \_a\_e and \_ai\_ for long a. Then, say a word with that vowel sound, such as "rain." Ask a volunteer to find the beginning and ending consonant magnets and try them with both spelling pat- terns. Which one is the correct spelling? Repeat with other long a words such as "game," "snail," "shape," and so on. Encourage stu- dents to copy the words into their journals, making two separate lists for the two different spelling patterns.

#### **Grab & Build Game**

Sort the caps into 2 paper bags by color. Then, have each player reach into the bags and pull out four blue caps and two red caps. Prompt players to build words with their caps and take turns sounding out their word. Is it a real word? If so, display the word on a board and pull replacement caps from the envelopes. For the second round, have each player draw only one cap from an envelope of his or her choice. Who can build a real word using the caps they have now? Keep playing until all the caps have been removed from the bags and players have built as many words as they can.

#### Letter Scramble

Use the letters to spell a long word, like "airplane." Now, mix up these letters and see how many new words students can make using any of the letters from the word. **Note:** You might want to use words that correspond with themes or topics that you are currently studying. List the words on a classroom board or chart paper.

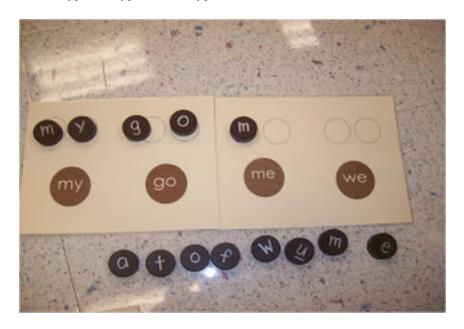
#### **Dictionary**

Have students use the caps to build as many words as they can. Then, encourage them to arrange the words in alphabetical order and write them on paper or in a journal, adding a definition or a picture for each one.

#### Oreo Words:

This game is called OREO WORDS! I had a large amount of brown lids so I made this template to go with all of the 2 letters words that I was working on!

# \*\* Find free printable online at http://fromkindergartenwithlove.blogspot.com/search?updated-max=2011-07-28T09%3A37%3A00-07%3A00&max-results=7

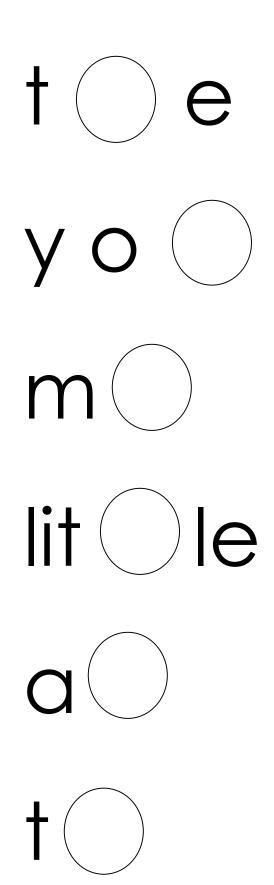


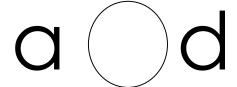
#### Sight word with Circle: (The following 2 pages)

Use the template below to create sight word templates- Just put a circle where a letter cap should go. -Could be updated weekly with new sight words –Can adjust formatting so it appears on one page

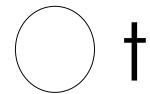
(From http://fromkindergartenwithlove.blogspot.com/search?updated-max=2011-07-28T09%3A37%3A00-07%3A00&max-results=7)







h



f

#### Sight word copy-cat spelling

