A stylized landscape illustration featuring rolling green hills, a blue sky with white clouds, a red bird flying, and a green tree and a purple flower on the left side.

Engaging Students in Addition and Subtraction

Kentucky Center for Mathematics Conference
March 10, 2015

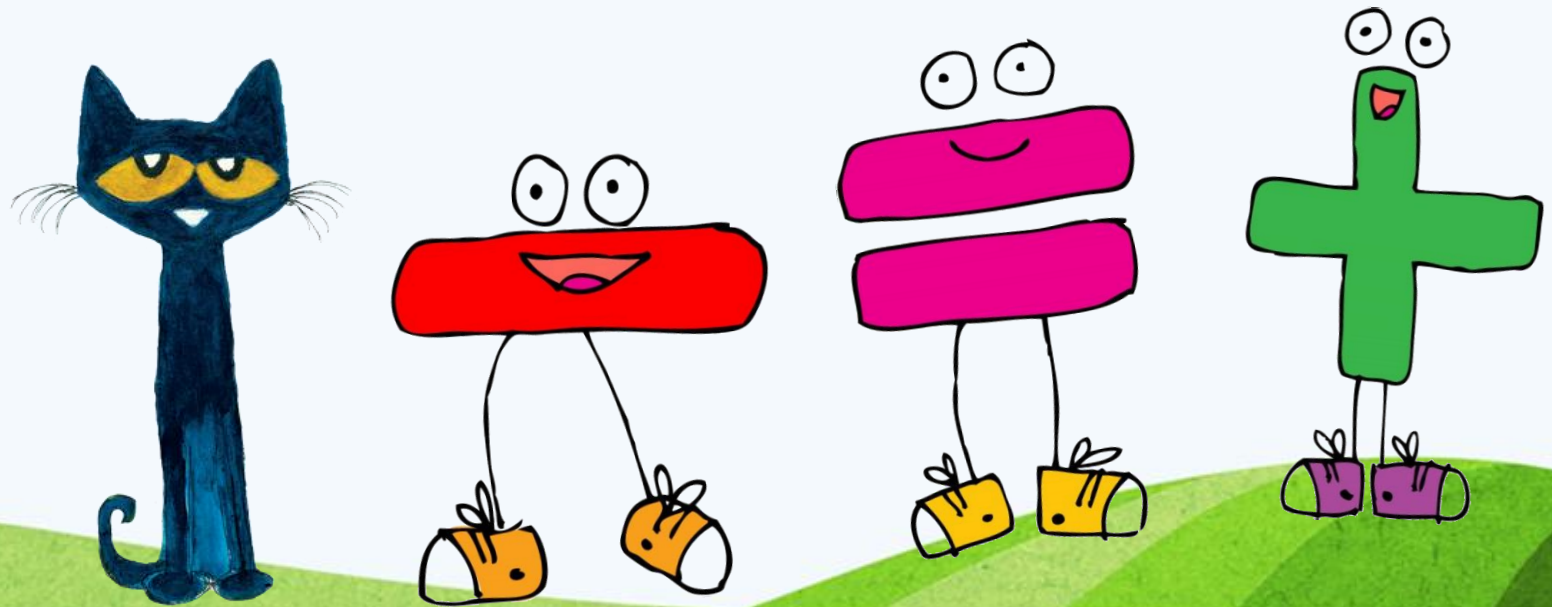
Presented by:

Emily Bruns
Tiffany Burnett
Caisey Dotson
Jill Hewlett
Lauren Janeaux
Lynn Patterson

Presentation Overview

This presentation will feature five amazing teacher candidates presenting and sharing the hands-on interactive experiences they created and taught in a kindergarten classroom. Come and meet:

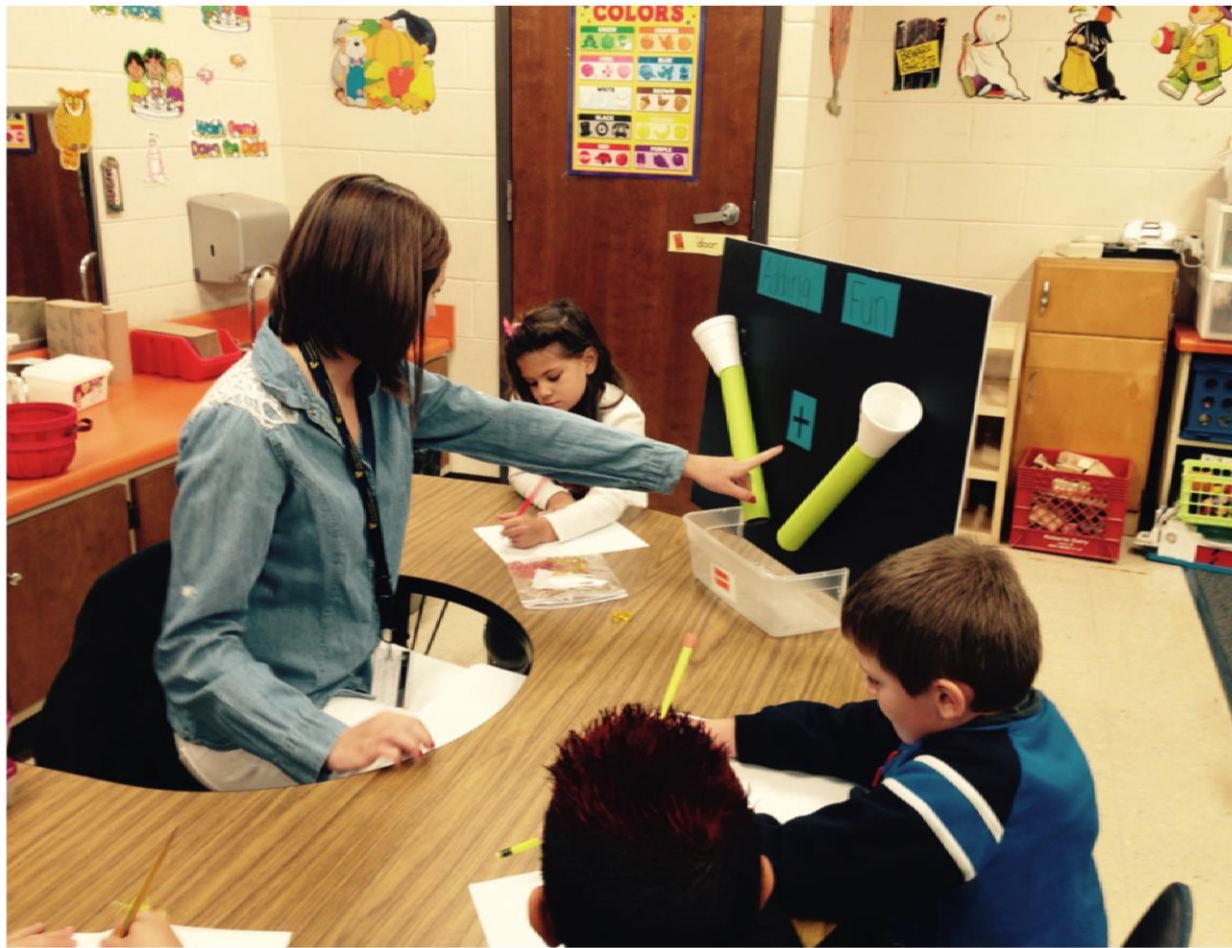
- GUS THE PLUS
- LINUS THE MINUS
- PETE THE CAT
- And more....



Common Core Standards

- K.OA.A.1: Represent addition and subtraction with objects, fingers, mental images, drawings, sounds (e.g., claps), actions.
- K.OA.A.2: Solve addition and subtraction word problems, and add and subtract within 10, e.g. by using objects or drawings.





Snapshot of Our Lessons

6 Lessons

20-25 minute lessons

- Whole group activities
- Small group activities

Math Journal Activities

Assessment

K.OA.1: Represent addition and subtraction with objects, fingers, mental images, drawings, sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations.
I can identify the mathematical symbols used to show addition and subtraction.

+

-

=

K.OA.1: Represent addition and subtraction with objects, fingers, mental images, drawings, sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations.

I can show addition using objects, fingers, sounds, and by acting out situations and equations.

$$4 + 3 = 7$$

Show your thinking with objects, words, pictures.

K.OA.2: Solve addition and subtraction word problems, and add and subtract within 10, by using objects or drawings to represent the problem.

I can add and subtract numbers within 10.

Sam has 5 leaves. Molly gave Sam 2 more leaves.
How many leaves does Sam have now?

Show your thinking with objects, words, pictures or numbers.

K.OA.2: Solve addition and subtraction word problems, and add and subtract within 10, by using objects or drawings to represent the problem.
I can add and subtract numbers within 10.

$$5 + 3 = \underline{\quad}$$

Show your thinking with objects, words, pictures or numbers.

K.OA.2: Solve addition and subtraction word problems, and add and subtract within 10, by using objects or drawings to represent the problem.

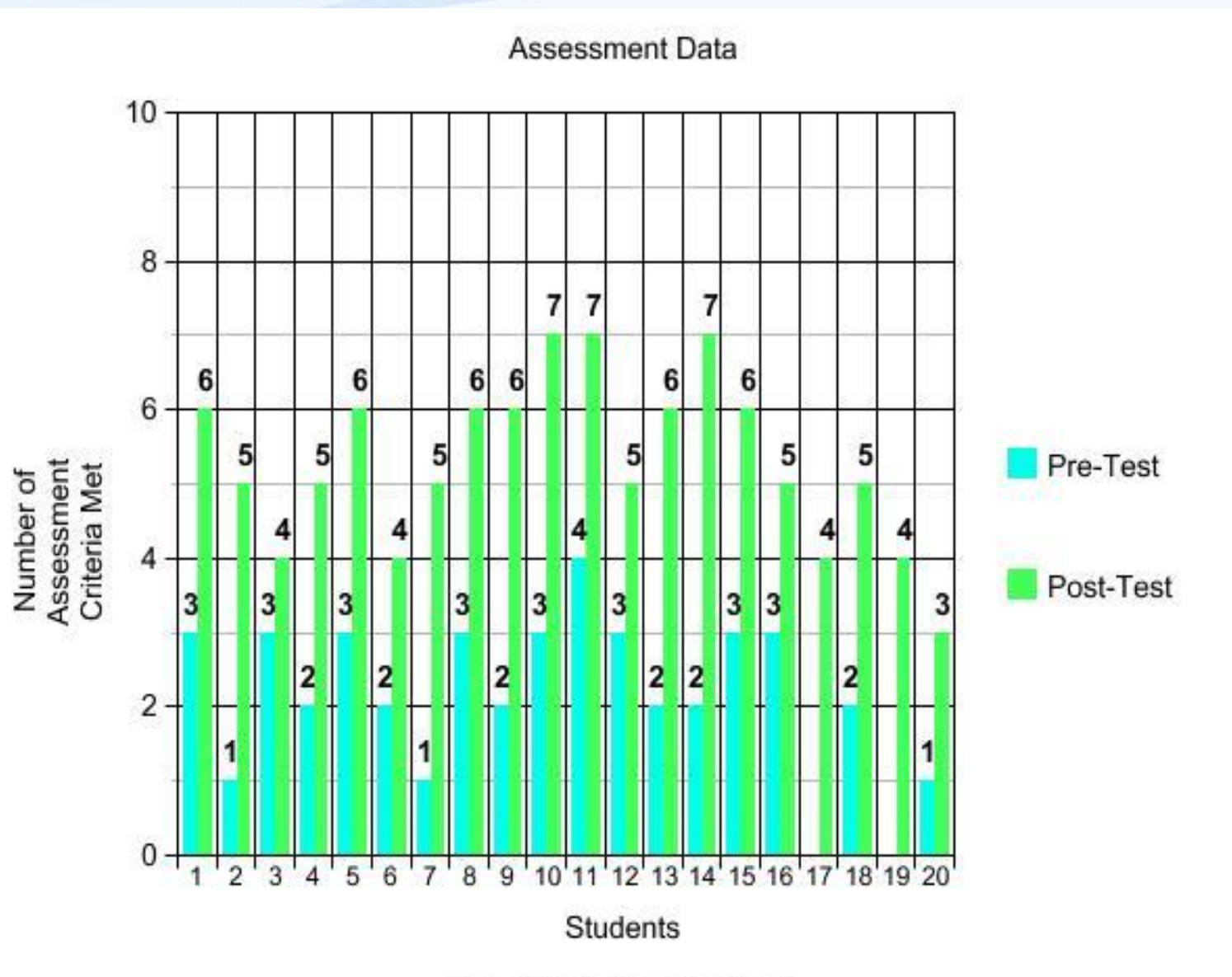
I can add and subtract numbers within 10.

$$5 - 4 = \underline{\quad}$$

Show your thinking with objects, words, pictures or numbers.

 leaves

Pre-Test Data

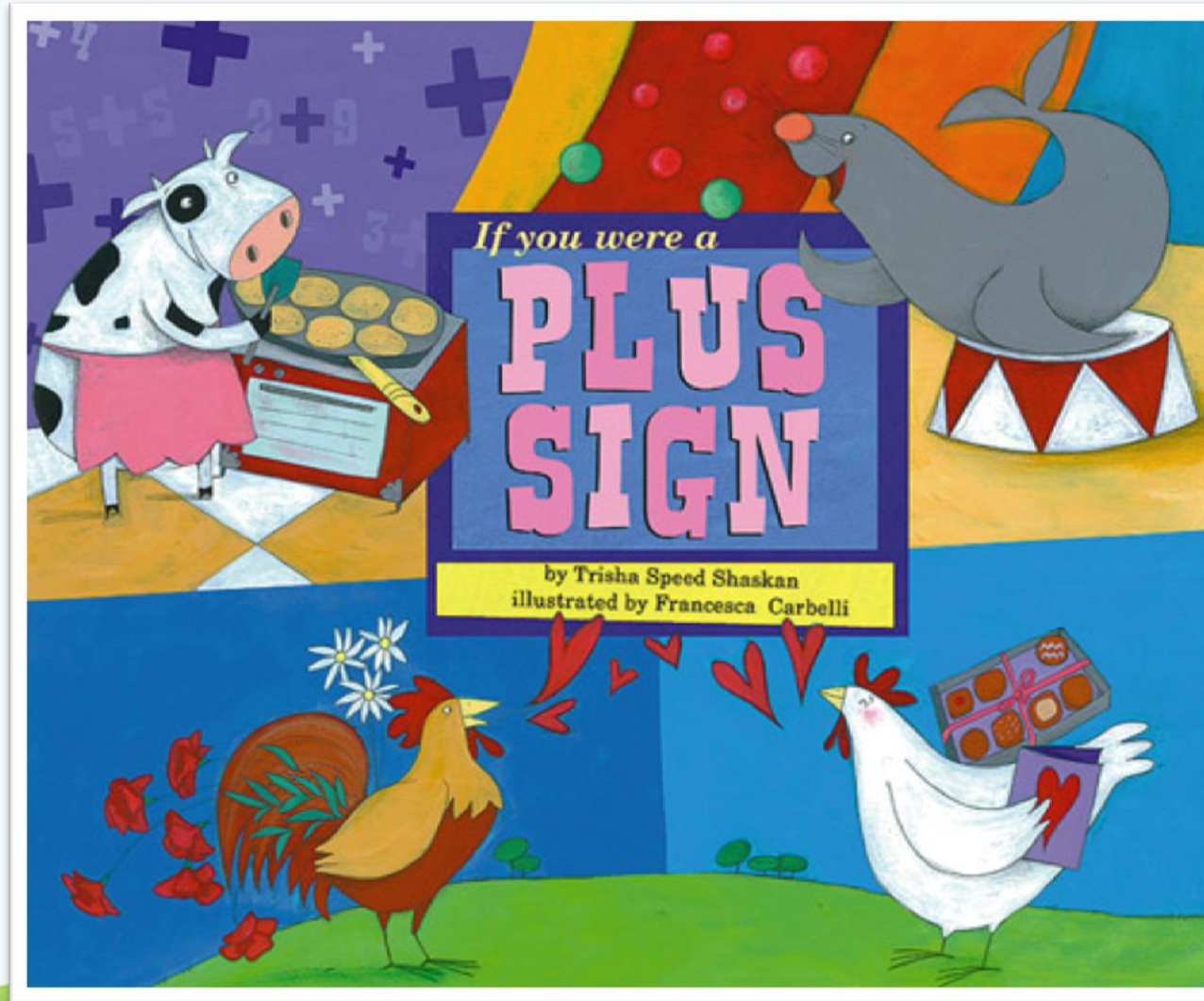


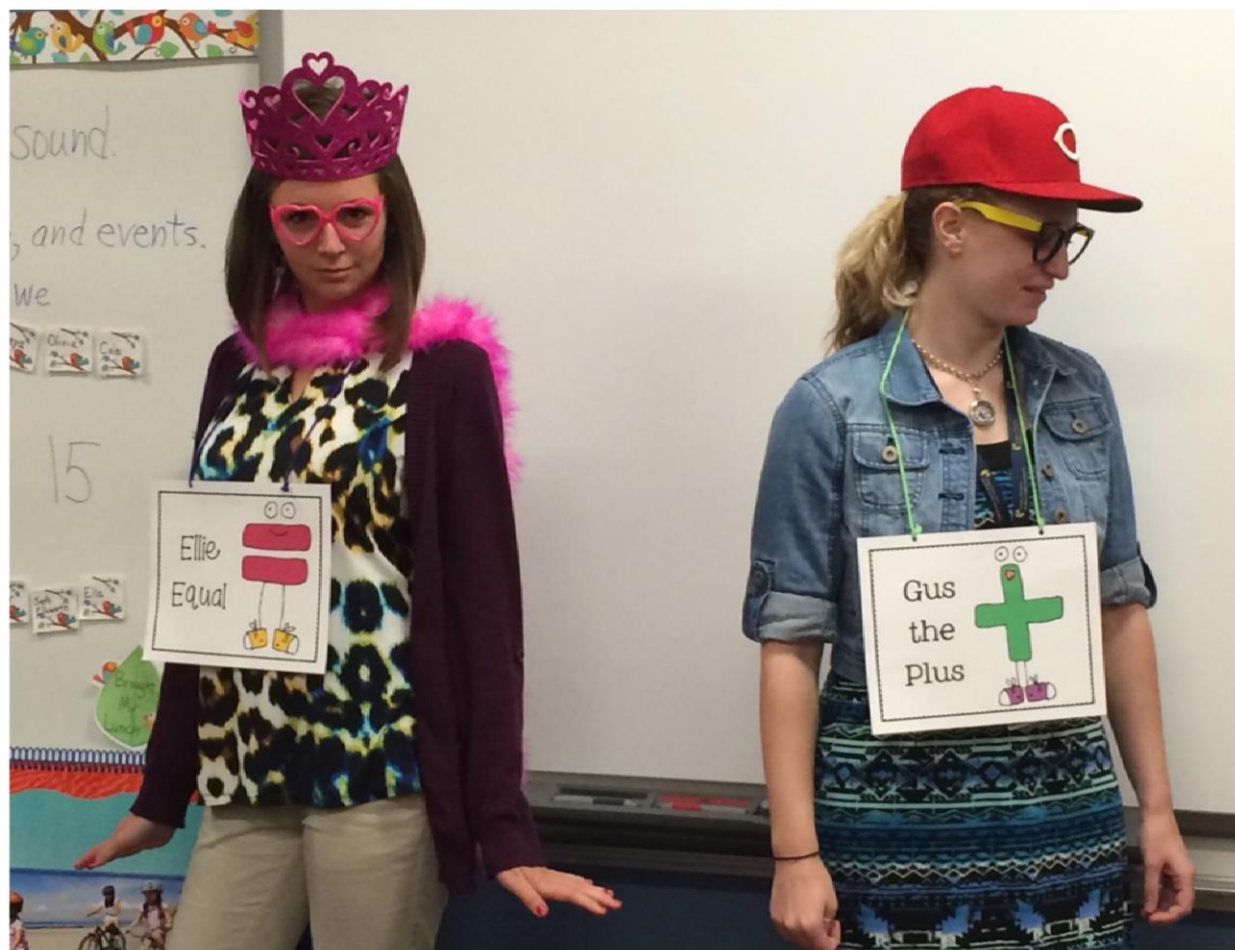


Lesson #1

If I Were a Plus Sign

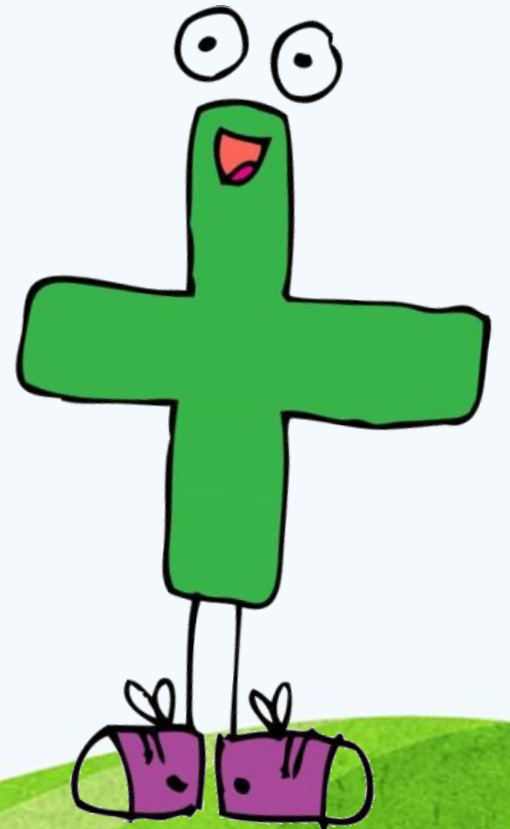
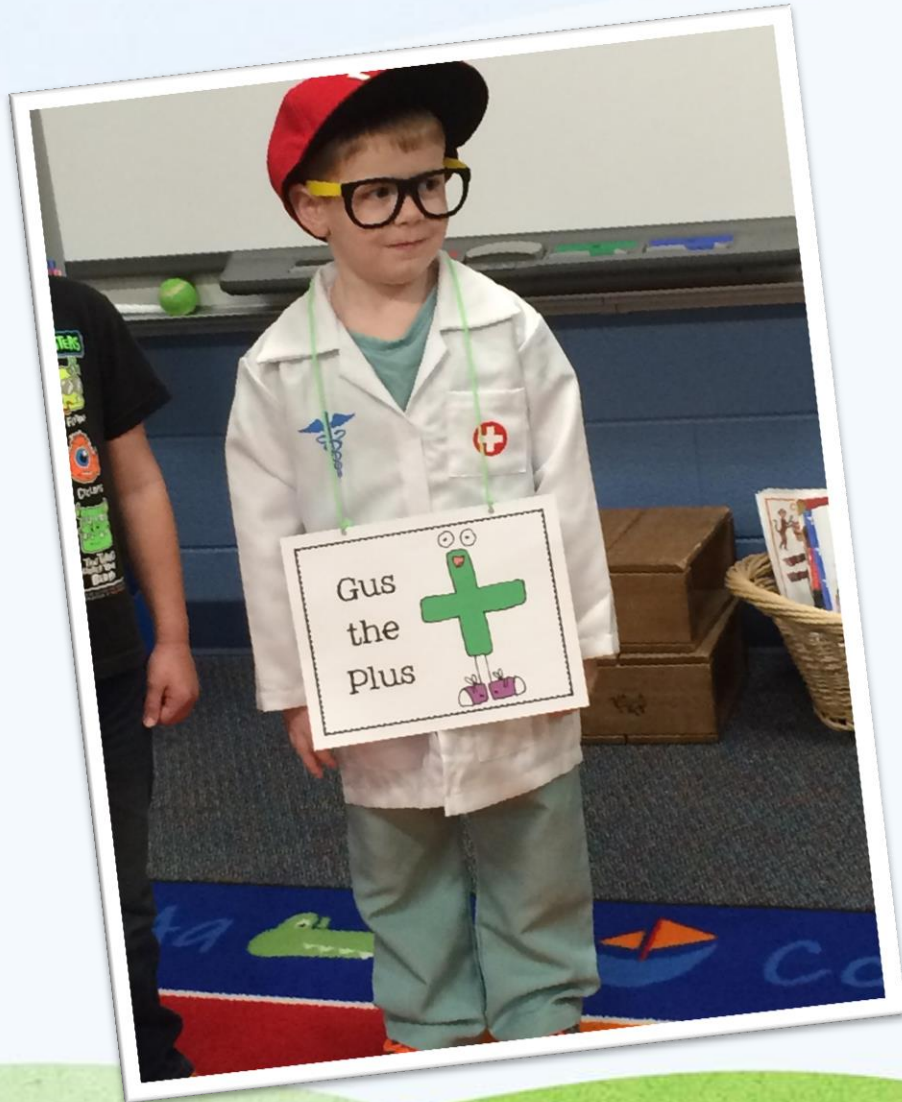
If You Were a Plus Sign



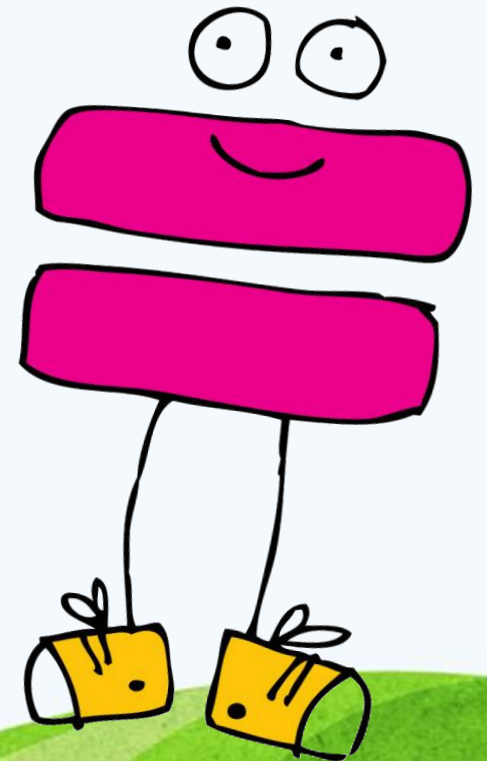
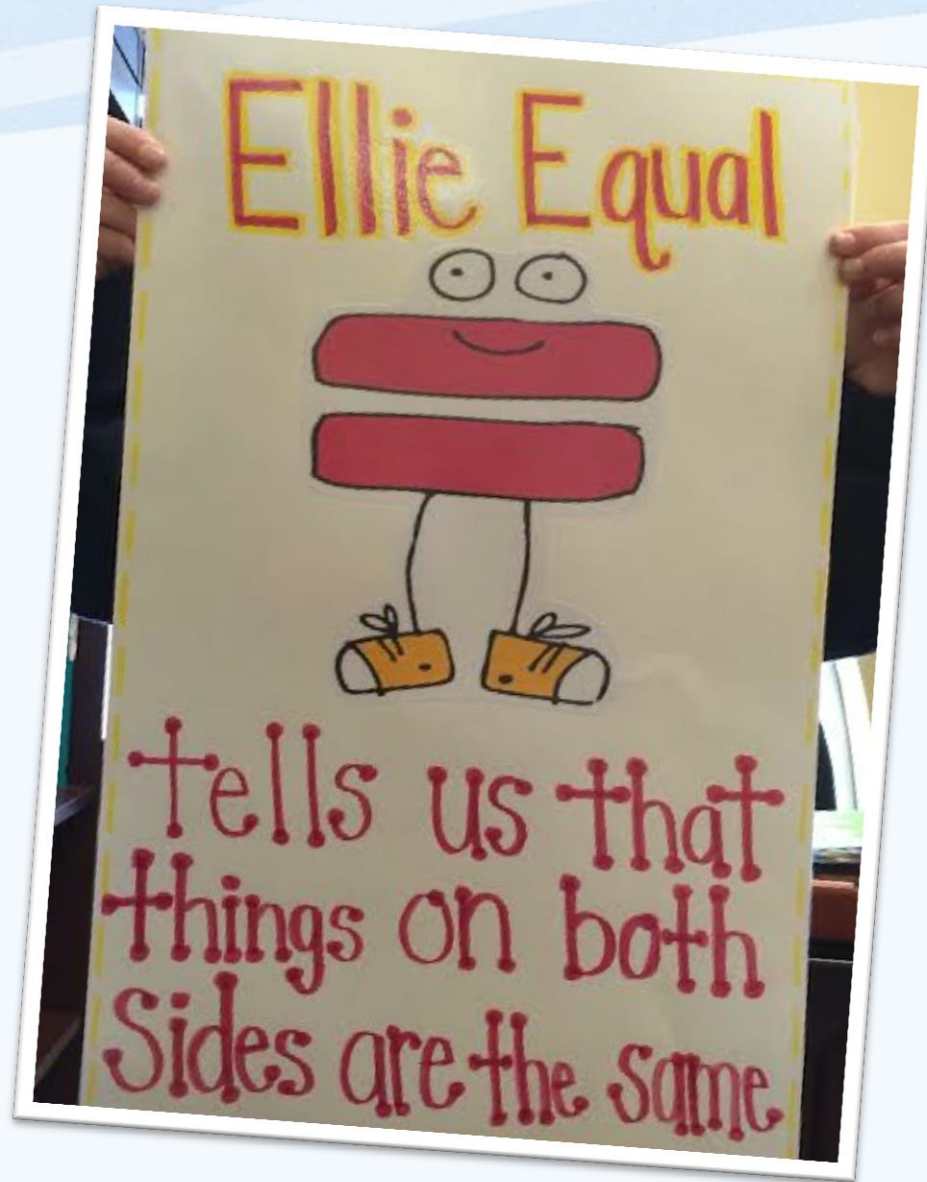
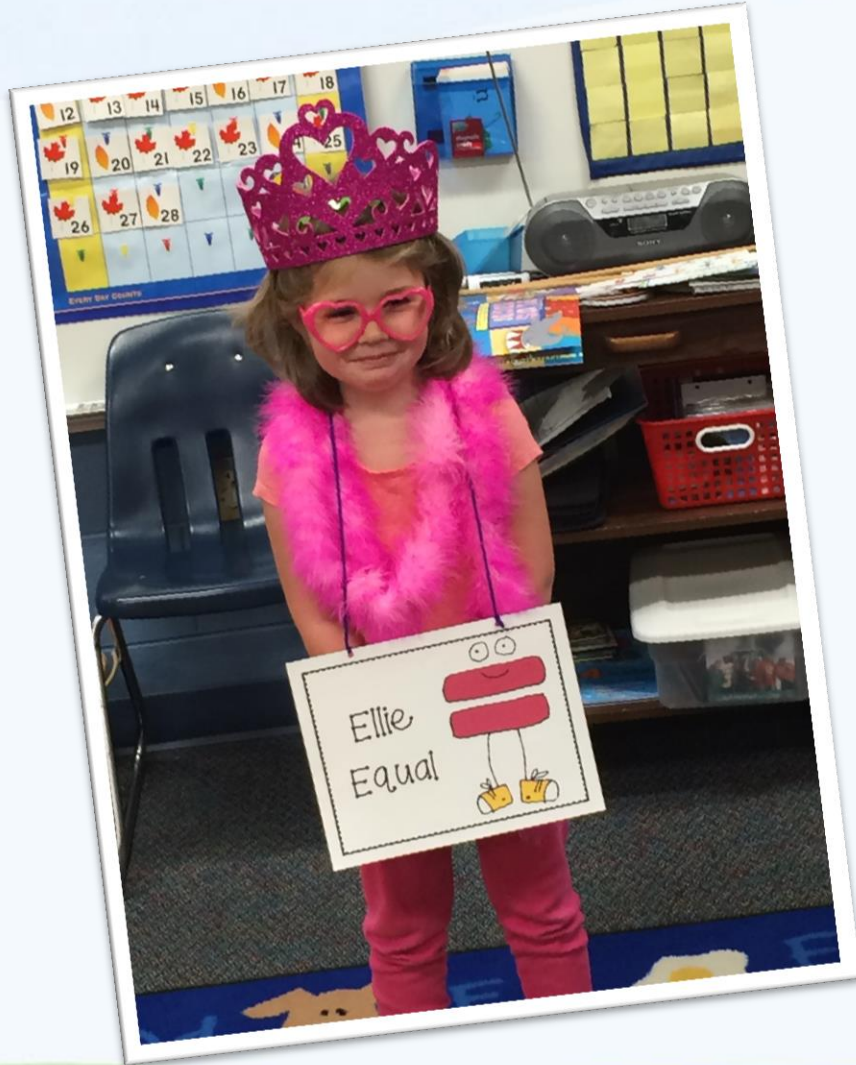


Gus the Plus &
Ellie Equal
Introductions

Gus the Plus



Ellie Equal





Activity:
Acting Out
Addition
Sentences



Lesson #2

Adding Fun!



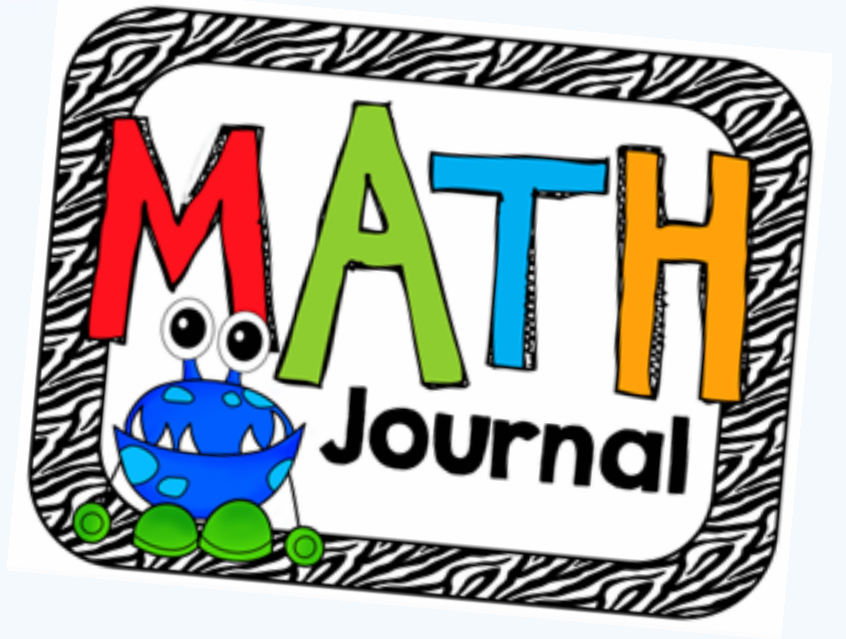
Activity:
Adding Fun
Boards

Golovin

$$1 + 1 = 2$$

$$Q + Q = QQ$$

$$2 + 1$$



Interactive Math
Journal Activity



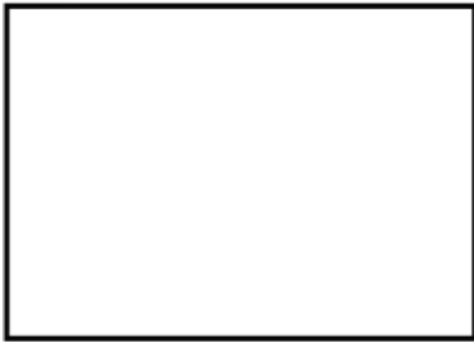
Lesson #3

Building Addition Fun



When You Add
with a Pirate
Harry
Kindergarten

Build 5
Add 3 more.
What is the sum?



Build 5
Add 2 more.
What is the sum?



Activity:
Addition
Building Cards



Lesson #4

Addition Story Problems



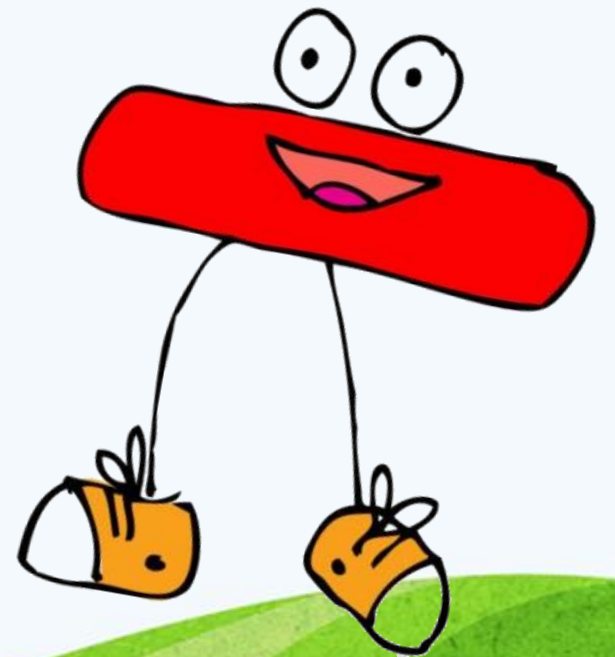
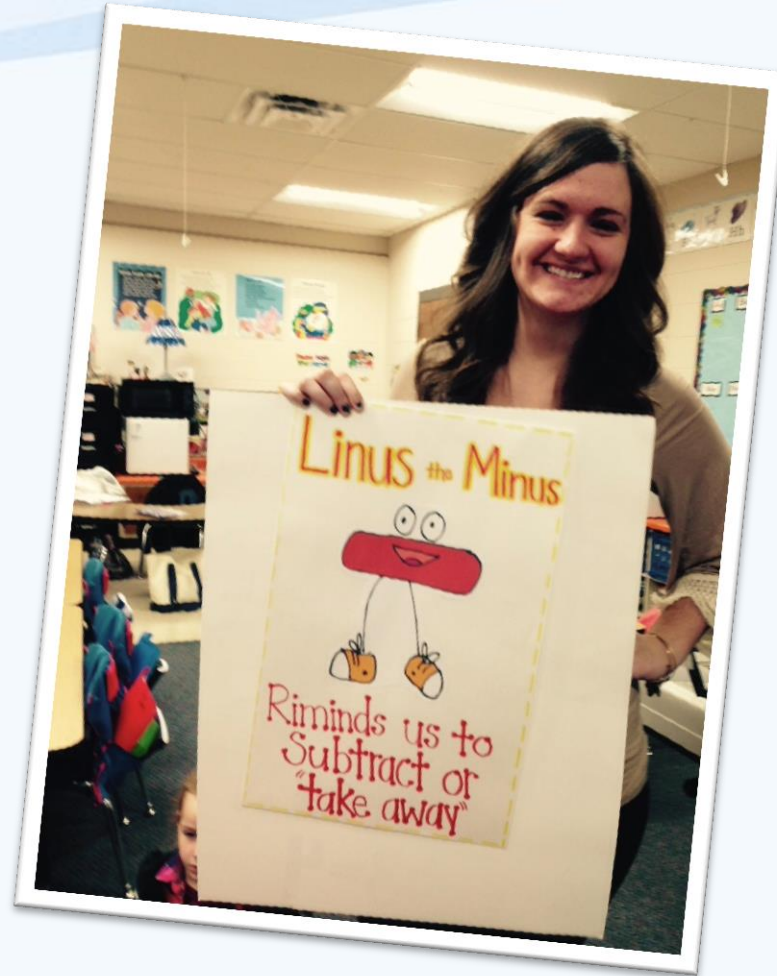
Activity:
Story Problems
& Bead
Bracelets

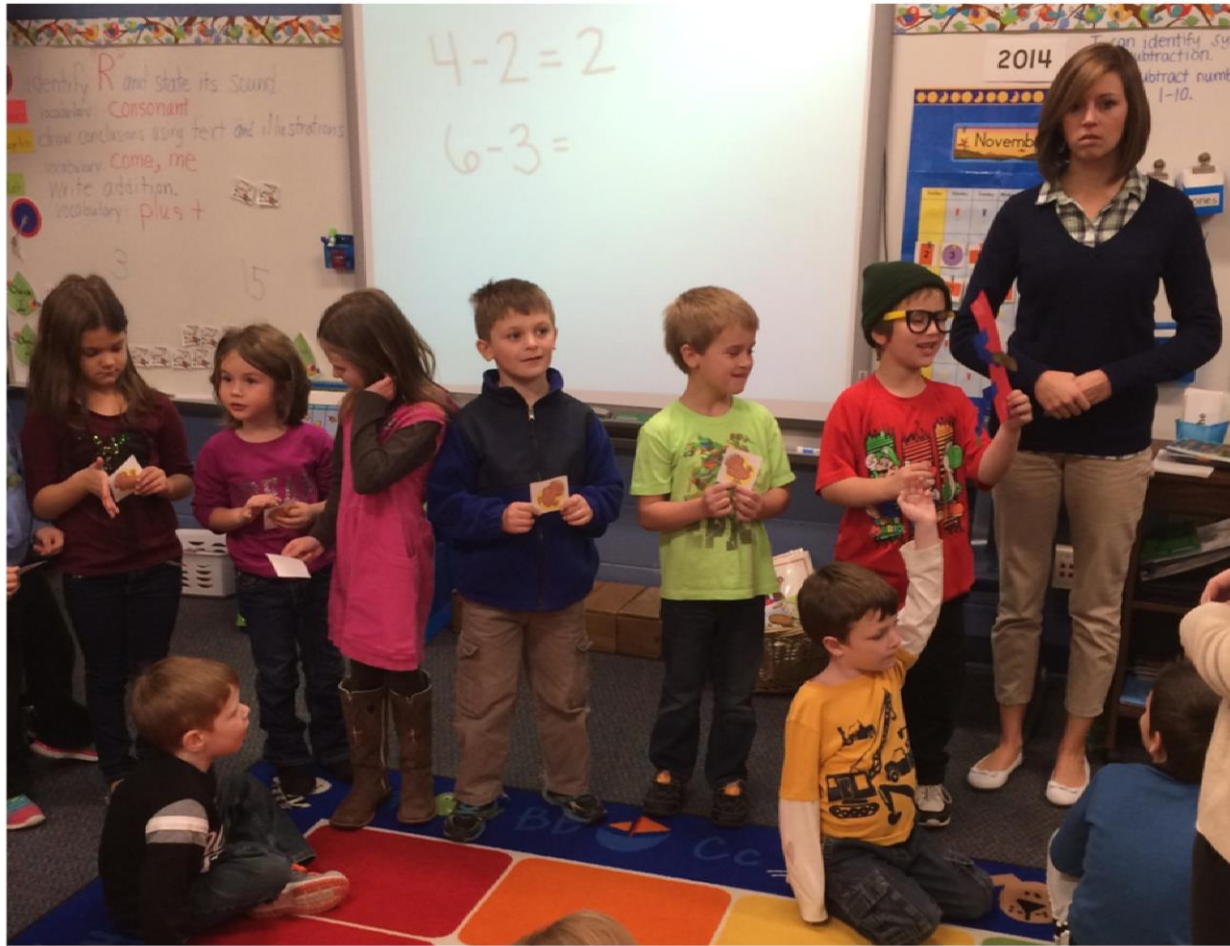


Lesson #5

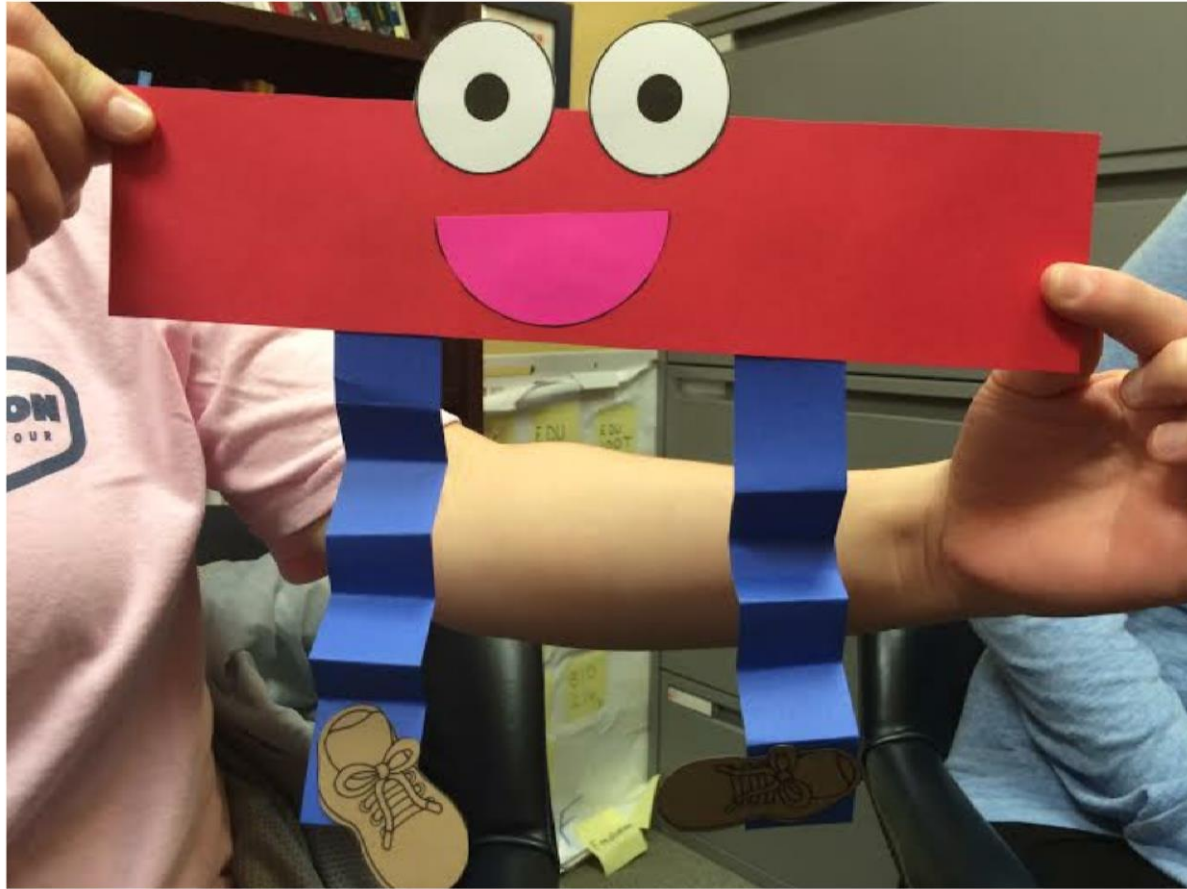
If You Were a Minus Sign

Linus the Minus





Acting Out
Subtraction
Sentences



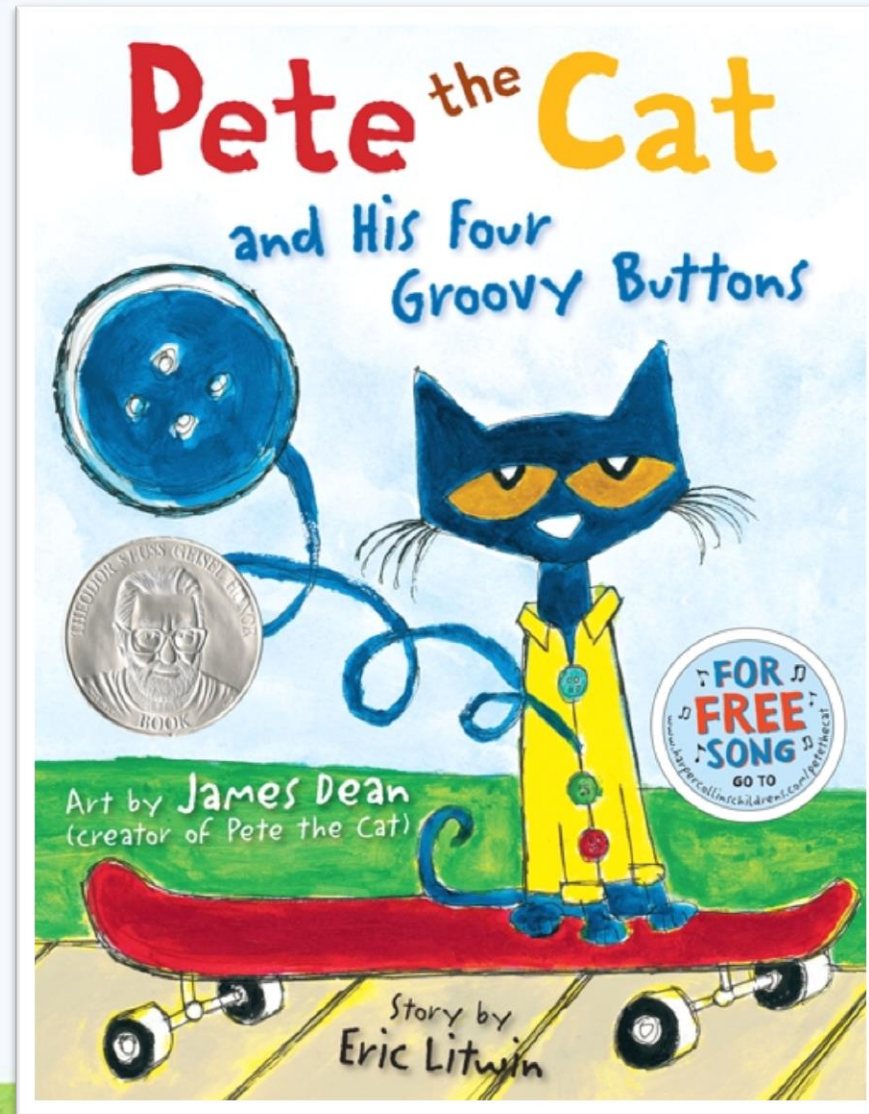
Linus the Minus
Craftivity



Lesson #6

*It's All Good!
Subtraction with Pete the Cat*

Pete the Cat





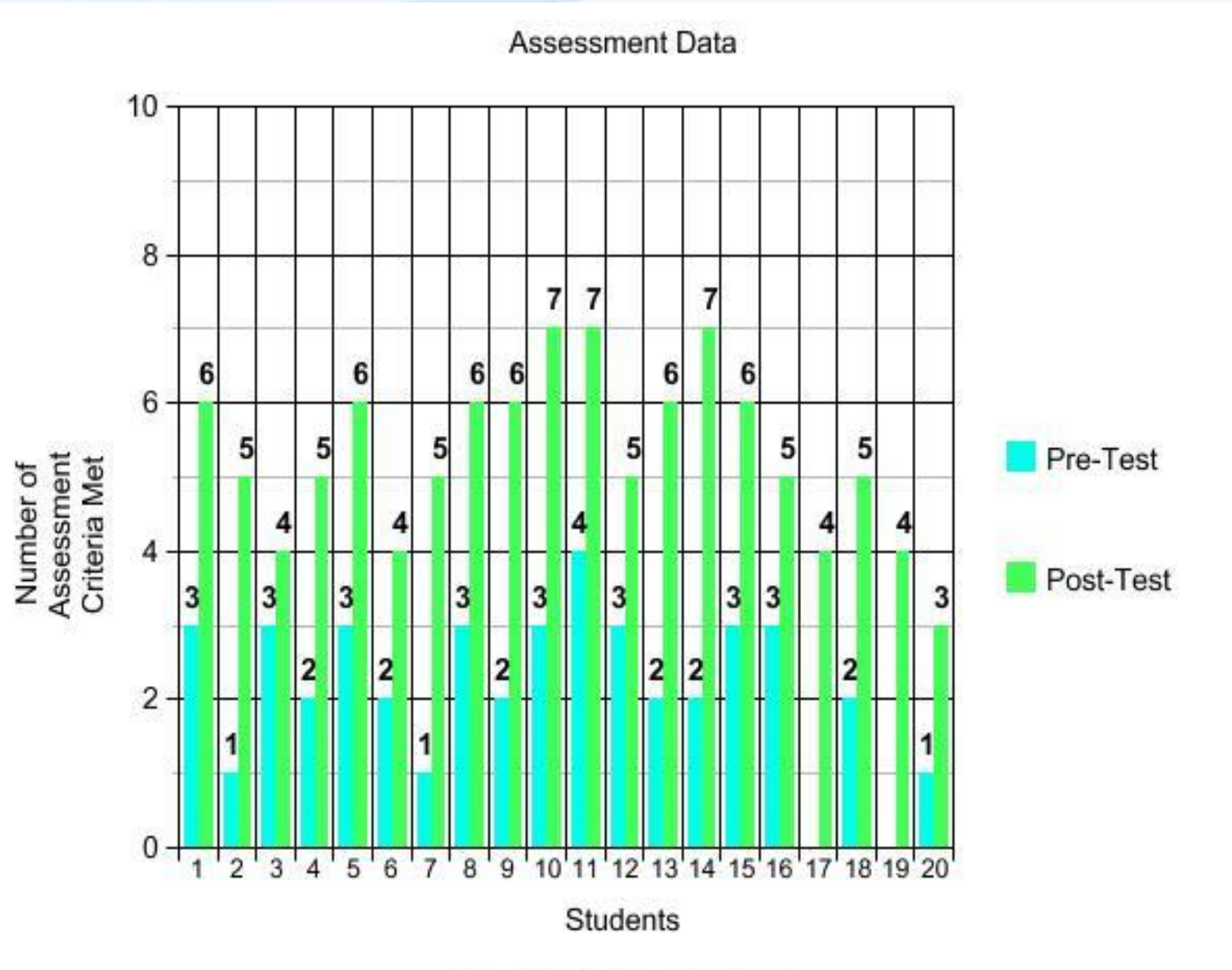
Activity:
Reading with
Subtraction



<p>Pete the Cat has 5 groovy buttons. POPI 3 rolled away. How many buttons are left?</p>	<p>Pete the Cat has 6 groovy buttons. POPI 4 rolled away. How many buttons are left?</p>
<p>Pete the Cat has 5 groovy buttons. POPI 2 rolled away. How many buttons are left?</p>	<p>Pete the Cat has 6 groovy buttons. POPI 3 rolled away. How many buttons are left?</p>

Activity:
Pete the Cat
Subtraction
Cards

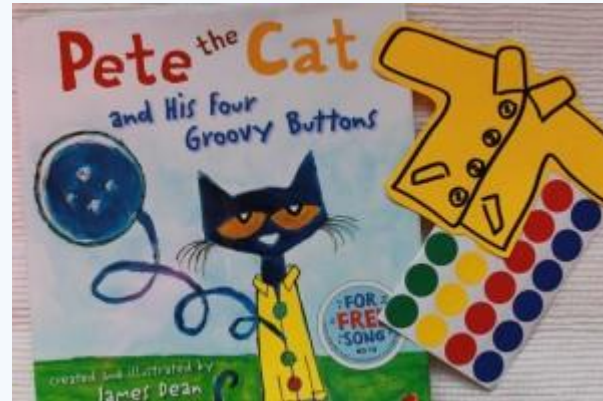
Post-Test Data



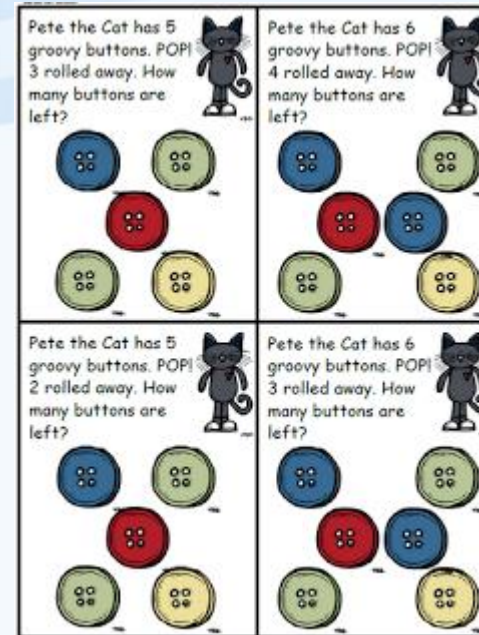
Our Sources



<http://ideas.tpet.co.uk/adding-fun/>



<http://www.theseedsnetwork.com/counting-and-literacy-activity-with-pete-the-cat/>

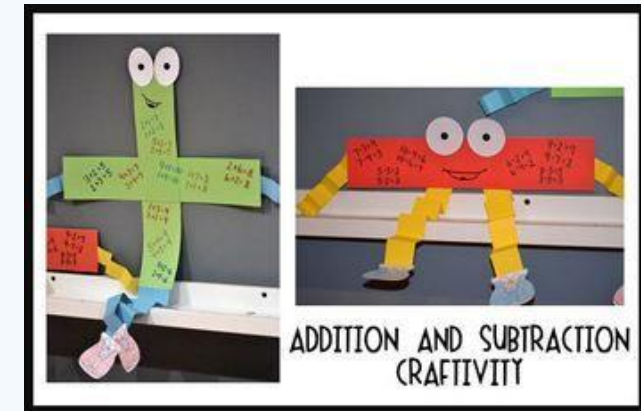


<http://petersons-pad.blogspot.com/2012/07/pete-cat-freebie.html>



http://youtu.be/WT_wvEvkw4

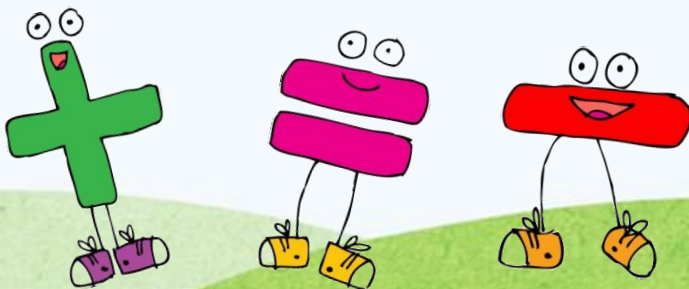
Idea for Linus the Minus craft...



<https://www.teacherspayteachers.com/Store/A-Year-Of-Many-Firsts>



<http://littlemindsatwork.blogspot.com>



Contact Information



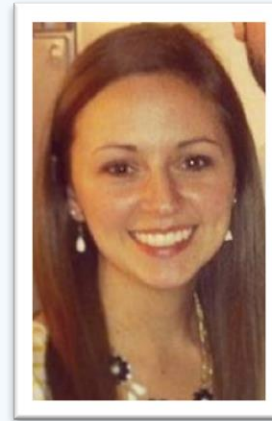
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